

SunCoke Energy

Received State of Indiana

Indiana Harbor Coke Company 3210 Watling Street East Chicago, IN 46312

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Dept of Environmetal Management Office of Air Quality

April 29, 2019

Chief, Environmental Enforcement Section **Environment and Natural Resources Division** U.S. Department of Justice Box 7611 Ben Franklin Station Washington, DC 20044-7611 Re: DOJ 90-5-2-1-08555/1

Compliance Tracker Air Enforcement and Compliance Assurance Branch U.S. Environmental Protection Agency – Region 5 77 West Jackson Blvd. AE-18J Chicago, IL 60604-3590 rSairenforcement@epa.gov

Phil Perry Indiana Department of Environmental Management Chief, Air Compliance and Enforcement Branch 100 North Senate Avenue MC-61-53, IGCN 1003 Indianapolis, IN 46204-2251

Air Enforcement Division Director U.S. Environmental Protection Agency Office of Civil Enforcement Air Enforcement Division 1200 Pennsylvania Ave, NW Mail Code: 2242A Washington, DC 20460

Susan Tennenbaum U.S. Environmental Protection Agency Region 5, C-14J 77 West Jackson Blvd. Chicago, IL 60604 tennenbaum.susan@epa.gov

Elizabeth A. Zlatos Indiana Department of Environmental Management Office of Legal Counsel 100 North Senate Avenue MC-60-01 IGCN 1307 Indianapolis, IN 46204-2251 bzlatos@idem.in.gov

RE: Consent Decree, United States, et al. v. Indiana Harbor Coke Company, et al. Indiana Harbor Coke Company, LLC (TV Permit T089-36826-00382) Submission of the 1st 2019 Semi-Annual Report

To Whom It May Concern,

The United States, the State of Indiana, Indiana Harbor Coke Company (IHCC), SunCoke Energy, Inc. (SunCoke), and Cokenergy, LLC (Cokenergy) are parties to a Consent Decree (CD) lodged in federal court on January 25, 2018 with an Effective Date of October 25, 2018.

Pursuant to the CD, IHCC is submitting the 1st 2019 Semi-Annual Report for IHCC. IHCC and SunCoke prepared the enclosed Report in accordance with Paragraph 51 of the CD. This Report contains the information required by Paragraphs 51.a. through q. of the CD, with respect to the time period from October 25, 2018 through March 31, 2019.

Indiana Harbor Coke Company 3210 Watling Street East Chicago, IN 46312



SunCoke Energy

If you have any questions regarding this report, please contact me at (219) 378-3968 or email me at jlkirby@suncoke.com.

Sincerely,

Justin L. Kirby

Environmental Manager

cc:

East Chicago Public Library 2401 E. Columbus Drive East Chicago, IN 46312

East Chicago Public Library 1008 W. Chicago Avenue East Chicago, IN 46312



or Coke Company Energy ; St.

IN 46312



7018 2290 0000 2823 4503

1025



\$9.96 R2303\$102835-11

CARR:

PRIORITY

TRK#:

70182290000028234503

RCVD:

5/2/2019 1:32:07 PM

Air Quality

ROUTE: IDEM

MSC:

Phil Perry Indiana Department of Environmental Management Chief, Air Compliance and Enforcement Branch 100 North Senate Avenue MC-61-53, IGCN 1003 Indianapolis, IN 46204-2251

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SunCoke Energy

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Sincerely,

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Environmental Manager

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Indiana Harbor Coke Company SunCoke Energy, Inc.

Consent Decree Semi-Annual Report

Reporting Period: October 25, 2018 – March 31, 2019

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1.0 Introduction

The United States, the State of Indiana, Indiana Harbor Coke Company (IHCC), SunCoke Energy, Inc., and Cokenergy, LLC (Cokenergy), are parties to a Consent Decree (CD) lodged in the U.S. District Court for the Northern District of Indiana with an Effective Date of October 25, 2018. See United States, et al. v. Indiana Harbor Coke Company, et al., Civil Action No. 2:18-cv-35.

This report is being submitted pursuant to Paragraph 51 of the CD, and includes all information required to be submitted. This report covers the period of October 25, 2018 – March 31, 2019.

2.0 Work performed and progress made toward implementing the requirements of Section IV of the CD (Compliance Requirements), including completion of any milestones;

A. Coke Oven Rebuild Requirements, pursuant to Section IV.A. of the CD

Milestone Time	Milestone Description	Status
On or about March 31, 2017	Complete five (5) Oven Rebuilds for Battery B ("Initial Oven Rebuilds")	Complete
On or before March 31, 2018	Evaluation of the five rebuilt Ovens in Battery B	Complete - Evaluation period 3/31/2017 - 2/28/2018
By April 30, 2018	Notify EPA and IDEM regarding Battery B Oven Rebuilds success	Complete - Notification of Oven Rebuild success submitted 3/21/2018
December 31, 2018	Complete all Oven Rebuilds for Batteries A, C, and D, or Idle any Ovens that will not be rebuilt	Complete – All ovens rebuilt on Batteries A, C, and D
By November 30, 2019	Complete all Oven Rebuilds for Battery B, or Idle any Ovens that will not be rebuilt	In Progress

B. Coke Oven Leak Requirements

Please see section 6.0 for more information regarding compliance with emissions minimization requirements for Coke Oven Leaks from Rebuilt Ovens during the reporting period, pursuant to Paragraph 12 of the Consent Decree. Please see section 8.0 for a list of all Coke Oven Leak RCFAs performed during the reporting period, pursuant to Paragraph 13 of the Consent Decree. A copy of the RCFA report for each Coke Oven Leak from Rebuilt Ovens (as defined in Paragraph 8.k. of the CD) that occurred during the reporting period is included in Attachment A1.

Paragraph 11 of the Consent Decree contains compliance requirements for Coke Oven Leaks from Non-rebuilt Ovens. The Quarterly Deviation Reports included in Attachment E list all of the Coke Oven Leaks from Non-rebuilt Ovens during the reporting period along with the corrective actions taken. In addition, the following practices were implemented for all Coke Oven Leaks from Non-rebuilt Ovens during the reporting period:

- Appropriate response measures, such as adjusting oven damper position to optimize oven draft, were taken as soon as possible after the Leak was observed in order to minimize emissions;
- Coal charge at each affected Non-rebuilt Oven was reduced to no more than a thirtyseven and a half (37.5) ton average on a wet basis; and
- The sulfur content of the coal charged to each affected Non-rebuilt Oven was minimized to the extent practicable.

C. Bypass Venting Requirements

Please see section 19.0 for more information regarding compliance with bypass venting limits and SO₂ limits during the reporting period, pursuant to Paragraphs 14, 15 and 16 of the Consent Decree. Please see section 7.0 for more information regarding emissions minimization during Bypass Venting Incidents during the reporting period, pursuant to Paragraph 17 of the Consent Decree. Please see section 8.0 for a list of all Bypass Venting Incident RCFAs performed during the reporting period, pursuant to Paragraph 18 of the Consent Decree. A copy of the RCFA report for each Bypass Venting Incident (as defined in Paragraph 8.d. of the CD) that occurred during the reporting period, if any, is included in Attachment A2.

D. Enhanced Monitoring Requirements

Please see section 5.0 for more information regarding emissions monitoring and stack testing that occurred during the reporting period, pursuant to Paragraphs 19 - 22 of the Consent Decree.

E. Preventative Maintenance and Operation ("PMO") Plan

Please see section 10.0 for more information regarding the PMO plan required by Paragraph 23 of the Consent Decree. Please see section 11.0 for more information regarding submittal of the Compliance Assurance Plan (CAP) under section 23.c. of the Consent Decree.

F. Mitigation Measures

Please see section 20.0 for more information regarding Mitigation Measures required by Paragraph 24 of the Consent Decree.

G. Permit Requirements

Please see section 12.0 for more information regarding the status of permit applications, pursuant to Paragraphs 27 through 29 of the Consent Decree.

3.0 Any significant modifications to previously-submitted design specifications of any pollution control system, or to monitoring equipment, required to comply with the requirements of Section IV (Compliance Requirements);

At this time, no significant modifications to previously submitted design specifications of any pollution control system or to monitoring equipment are required for compliance with Section IV of this Consent Decree.

4.0 Any significant problems encountered or anticipated in complying with the requirements of Section IV (Compliance Requirements), including implemented or proposed solutions;

No significant problems have been encountered in complying with Section IV of this Consent Decree.

Any potential non-conformances to the PMO plan, required under section IV.D, are included in Section 10.0.

- 5.0 A summary of the emissions monitoring and testing data collected to demonstrate compliance with a requirement of the Consent Decree;
 - A. Permanent Flow Monitor (Paragraph 19)

Paragraph 19 of the CD requires installation of a permanent flow monitor to continuously measure the flow rate in the Main Stack within ninety (90) days of the Effective Date of the CD.

The required flow monitor was installed on June 12, 2018 and a Relative Accuracy Test Audit (RATA) was conducted in September 2018. The flow monitor RATA report was submitted to EPA and IDEM by Cokenergy on October 17, 2018 and a copy of the RATA report is included in Attachment B.

B. Meteorological Station (Paragraph 20)

Paragraph 20 of the CD requires installation of a meteorological station at the Facility or purchase of a handheld weather device within thirty (30) days of the Effective Date of the CD.

IHCC purchased twelve (12) new handheld weather devices to monitor and record wind speed and wind direction. These devices were ordered on March 29, 2018 and were received in April of 2018. The wind meters (HoldPeak 866B-WM Digital Anemometers) are being operated and maintained as required.

C. Emissions Tracking System (ETS) Updates (Paragraph 21)

Paragraph 21 of the CD requires IHCC to modify ETS in order to report emissions using the actual flow data from the Main Stack flow monitor within one hundred eighty (180) days of the installation of the Permanent Flow Monitor pursuant to Paragraph 19 of the CD.

ETS was modified to incorporate the new Main Stack flow monitor and began using actual flow data from the new flow monitor on November 28, 2018.

D. Bypass Vent Stack and Main Stack Testing (Paragraph 22)

Paragraph 22 of the CD requires stack testing measuring the emission rate of lead and VOCs from the Main Stack and at least one Bypass Vent Stack within five (5) years of the Effective Date of the CD. Two stack tests, separated by at least eighteen (18) months, are required for measuring the lead emissions and one test is required for VOCs.

Stack testing pursuant to Paragraph 22 is expected to be conducted in conjunction with stack testing required under the Title V permit. Test notifications and test protocols will be submitted to EPA and IEPA as required by the CD.

6.0 A list of all violations of Paragraph 12.a and 12.b, with the date, time and location of visible emissions and the status of any Coke Oven RCFA conducted;

Paragraph 12.a requires that visible emissions from a Rebuilt Oven Coke Oven door must be stopped within fifteen (15) minutes on the push side and forty-five (45) minutes on the coke shed side. Visible emissions from a Coke Oven door may be stopped from the push side within forty-five (45) minutes from the time the visible emissions are first observed for a maximum of two times per Battery in any semi-annual reporting period.

Paragraph 12.b requires that visible emissions from a Rebuilt Oven Coke Oven crown, or from any other part of the Coke Oven that is not the Coke Oven door, must be stopped within thirty (30) minutes. If visible emissions from a Coke Oven crown continue longer than thirty (30) minutes, a Method 9 observation must be conducted no later than one-hundred twenty (120) minutes from the time the visible emissions are first observed.

The following table lists all of the Coke Oven Leaks on Rebuilt Ovens exceeding the time periods set forth in Paragraph 12.a or 12.b of the Consent Decree during this reporting period:

Battery	Oven #	Leak Location	Date	Time Noticed	Time Ended	Duration (hours:minutes)	RCFA Triggered?
В	7	Push Side Door	11/16/18	7:13 AM	10:15 AM	3:02	N
С	36	Push Side Door	11/18/18	4:00 AM	4:16 AM	0:16	N
С	35	Push Side Door	11/19/18	4:48 AM	5:14 AM	0:26	N
С	16	Push Side Door	11/20/18	3:42 AM	4:10 AM	0:19	N
С	33	Push Side Door	11/21/18	11:00 PM	11:30 PM	0:30	N
D	3	Push Side Door	11/30/18	8:22 AM	10:15 AM	1:53	N
С	53	Coke Side Door	12/9/18	4:27 AM	5:17 AM	0:50	N
D	41	Push Side Door	12/15/18	7:27 AM	11:00 AM	3:33	N
D	3	Push Side Door	12/15/18	7:27 AM	11:00 AM	3:33	N
D	3	Push Side Door	1/6/19	7:35 AM	8:05 AM	0:30	N
В	7	Push Side Door	1/10/19	7:17 AM	1:40 PM	6:23	Y
В	4	Push Side Door	1/15/19	6:24 AM	6:45 AM	0:21	N
В	4	Push Side Door	2/18/19	6:57 AM	1:01 PM	6:04	N
D	3	Push Side Door	2/11/19	7:01 AM	7:18 AM	0:17	N
D	3	Push Side Door	2/17/19	8:15 AM	8:35 AM	0:20	N
D	3	Push Side Door	3/26/19	6:40 AM	7:35 AM	0:55	N

Coke Oven Leaks meeting the RCFA Trigger Level are indicated above and additional information on the RCFA(s) can be found in Section 8.0 and Attachment A.

7.0 All failures to comply with the emissions minimization requirements of Paragraph 17 of the Consent Decree;

Emissions Minimization Actions:

- (1) IHCC shall reduce coal charge at each Oven from which gases are being bypassed to no more than a forty (40) ton average on a wet basis, if practicable.
 - (a) There were no Bypass Venting Incidents during the reporting period.

8.0 All RCFAs required by Paragraphs 13 and 18 of this Consent Decree;

A. The following table provides a summary of the <u>Coke Oven RCFAs</u> completed during this reporting period, pursuant to Paragraph 13. Please see Attachment A1 for all Coke Oven RCFAs completed during this reporting period. Additionally, a table showing the status of all corrective actions identified from each RCFA is included in Attachment A3.

RCFA #	Start Date	Battery	Oven #	Leak Location	Duration	RCFA Status
9089	1/10/19	В	7	Push Side	6 hours 23 min	COMPLETE

B. The following table provides a summary of the Bypass Venting Incident RCFAs completed during this reporting period, pursuant to Paragraph 18. Please see Attachment A2 for all Bypass Venting Incident RCFAs completed during this reporting period. Additionally, a table showing the status of all corrective actions identified from each RCFA is included in Attachment A4.

RCFA#	Start Date	Description	RCFA Status
		No Bypass Venting Incidents occurred this reporting period.	

9.0 The status of any corrective actions required under Paragraphs 13 and 18 that were not completed at the time of the submission of any previous report required under Paragraphs 13 and 18:

Paragraph 51(h) requires reporting in this semi-annual report the status of all corrective actions not completed prior to the submission of the previous semi-annual report. Attachments A3 and A4 outline the status of all corrective actions identified from each Coke Oven Leak and Bypass Venting Incident RCFA in this semi-annual reporting period. As this is the first semi-annual report, there are no previous corrective actions to be reported on.

10.0 Any updated PMO Plan required by Paragraph 23 of this Consent Decree or any failure to follow a PMO Plan;

The PMO Plan was submitted to EPA and IDEM on June 28, 2018. The PMO Plan was accepted by the agency on February 14, 2019. Please see Attachment C for a current version of the plan.

There have been no failures to follow the PMO Plan requirements during this reporting period.

11.0 Submittal of the CAP when required by Paragraph 23.c of this Consent Decree, any updates to the CAP, and any instances when the CAP had to be implemented to ensure compliance with PM or SO₂ limits;

Paragraph 23.c of the CD requires IHCC to evaluate monthly production and monthly sulfur content of the dry coal to identify when they exceed the levels specified in the CD for "High Production Level Months" in two consecutive months. This requirement has been included in the PMO Plan. As outlined in the table below, no exceedances of the High Production Levels occurred during the reporting period.

Month/Year	Average Monthly Tons of Dry Coal Charged	Average Monthly Sulfur Content of Dry Coal
October 2018	115,615	0.85%
November 2018	120,670	0.83%
December 2018	125,729	0.80%
January 2019	121,424	0.85%
February 2019	109,227	0.87%
March 2019	120,331	0.90%

12.0 Status of permit applications and a summary of all permitting activity pertaining to compliance with this Consent Decree;

IHCC permitting status and compliance:

 The permit application to incorporate the required elements of the CD into the facility operating permit was submitted within ninety (90) days of the effective date on January 4, 2019 as required by Paragraph 27.a. A copy of the submitted application is included in Attachment D.

•	The application seeking a site-specific revision to the Indiana State Implementation Plan ("SIP") was submitted within ninety (90) days of the effective date on December 19, 2018 as required by Paragraph 27.b. A copy of the submitted application is included in Attachment D.

13.0 A description of all noncompliance with the requirements in Section VII (Supplemental Environmental Projects);

This is a Cokenergy-only obligation; therefore, details are not included in this report.

14.0 All failures to comply with the reporting requirements in Paragraphs 51 through 55;

There were no failures to comply with the reporting requirements set forth in Paragraphs 51 through 55 of the Consent Decree during this reporting period.

15.0 Copies of all Quarterly Deviation and Compliance Monitoring Reports and semi-annual and annual compliance certifications required under the Defendants' Permits to both EPA and IDEM;

For the IHCC facility, quarterly deviation and compliance monitoring reports submitted for the time period covered by this report are included in Attachment E1. All semi-annual and annual compliance certifications submitted during the reporting period are included in Attachment E2.

16.0 The dates, times, and duration of any Lightning Stand-Downs during the reporting period;

The dates, times, and duration of all Lightning Stand-Downs during the reporting period can be found in Attachment F.

17.0 The dates, times, and duration of any power outages during the reporting period;

There were no instances of power outages during the reporting period.

18.0 The dates, times, and duration of any Coke Oven Leaks caused by high winds and wind speed and direction data for the time of the Coke Oven Leaks;

The dates, times, and duration of all coke oven leaks caused by high winds during the reporting period can be found in Attachment G. For each coke oven leak caused by high winds, wind speed and direction data is also included.

19.0 Compliance with Bypass Venting Limits

Paragraph 14.a of the CD limits annual bypass venting to a maximum of 12% from January 1, 2017, through December 31, 2019. Paragraph 15 of the CD limits daily bypass venting to a maximum of 19% on a twenty-four (24) hour basis.

No exceedances of the annual or daily bypass venting limits occurred during the reporting period. The table below lists the actual annual venting for calendar years 2017 and 2018. Actual daily bypass venting percentages for each day during the reporting period are included in Attachment H.

Year	Annual Bypass Venting
2017	7.72%
2018	6.01%

20.0 Mitigation Measures

Paragraph 25 of the CD requires IHCC to maintain two rebuilt quench towers equipped with 1.5" thick, 2" x 6" wooden baffles placed 30 degrees to the gas stream, and placed 3" apart.

IHCC has maintained the two rebuilt quench towers as required during the reporting period.

CERTIFICATION OF DOCUMENT

I certify under penalty of law that this information was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my directions and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Patrick Nig

General Manager – Indiana Harbor and Coke Company

April 29, 2019

Semi-Annual Report

Attachment A1 Coke Oven Leak RCFAs Completed



SunCoke Energy 5 Why's RCFA Report



RCFA Name:	IHO 01_10_19 - B7 Door Leak Summary RCFA
Report #:	9089
RCFA Facilitator:	JLKIRBY
RCFA Type:	Environmental
RCFA Level:	Level III
Date and Time:	Jan 10, 2019, 5:00 AM

Report Date:	04/05/2019
Site:	IH
Location:	DR-B07-01
Location name:	DOOR, OVEN, PUSHER SIDE
Cost Impact:	\$0.00

Section1 - General Information

Executive Summary:

On 01/10/2019 at 7:17 AM, there was a coke side door leak reported on B7 that triggered a Summary RCFA.

On 01/09/2019 at 8:02 AM, B7 experienced a leak caused by high winds (33 mph) that exceeded 15 minutes on the P/S. This cycle was charged on 01/08/2019 at 5:00 AM.

On 01/10/2019 at 7:17 AM, B7 experience a leak attributed to issues related to oven B6, which hasn't been rebuilt and has known issues with the wall and the downcomer with oven B7. This cycle was charged on 01/10/2019 at 4:55 AM.

Since oven B7 experienced Coke Oven Leaks in two consecutive Coking Cycles, with one leak attributed to high winds and another attributed to "impacts from another Oven within the same bank" as defined by the consent decree, paragraph 13.a, a Summary RCFA was conducted.



SunCoke Energy 5 Why's RCFA Report

Section 2 - Cause and Effect Analysis

Cause and Effect Analysis:

Door leak on B7 was due to poor draft due to sharing wall with B6 that has not been rebuilt.



SunCoke Energy 5 Why's RCFA Report



Section 3 - RCFA Team Members

Name	Person's Site
John Deal	IH
Justin Kirby	

Section 4 - Causes

Line#	Why?	Cause	Is root?
1	Why was the RCFA Trigger Level reached?	Oven B7 experience Coke Oven Leaks in two consecutive Coking Cycles.	0
2	Why were the leaks in two consecutive Coking Cycles?	There was insufficient draft in oven B7.	0
3	Why was there insufficent draft in B7	Oven B7 shares a wall with oven B6 that is not rebuilt.	1

Section 5 - CORRECTIVE ACTIONS

Corrective Actions Identified

CA#	Description of Corre	ective Action Responsible Person	Target Comp Date
1172347	Complete rebuild on B6	JLKIRBY	11/30/2019

All RCFAs Report Header

Question #:

1

RCFA Name: B7 IHO Summary RCFA - 01/10/2019						
	Report #:	9089				
	RCFA Facilitator:	JLKIRBY				
	RCFA Type:	Environmental				

Report Date:	1/15/2019
Site:	IHO
Location:	DR-B07-01
Asset:	43854

CD Required RCFA Section 1 - General Informat	Œ	Required RCFA	Section 1 -	- General	Informati	on
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Was the Coke Oven Leak caused by the high winds, equipm Structural Issues, another oven under the same HRSG? Wa related to requipment owned or operated by SunCoke Ene	as the Coke Oven Leak caused by acts or omissions not	Υ
If yes, answer only questions 1 - 5 (Summary RCFA) If no, complete entire RCFA process and form (Full RC		form (Full RCFA)
f yes, answer only questions 1 - 5 (Summary RCFA) If no, complete entire RCFA process and form (Full RCFA)		form (Full RCFA)

Executive Summary:								
Battery:	В	Oven Number:	7	Leak Location (P/S, C/S, Crown):	P/S			
Date:		1/10/2019						
Observed Leak Start Time:		1/10/19 7:17 AM						
Observed Leak End Time:		1/10/19 1:40 PM						
Duration of Leak:		6 hr 23 min						

2	Was the Coke Oven Leak caused by high winds?	Υ
	If yes, wind speed and direction for the time of the Coke Oven Leak is required.	
	Wind Speed Data: On 01/09/2019, wind speed average 18.3 mph with gusts up to 33 mph. Wind direction was southeast.	
		ļ

Was the Coke Oven Leak caused by caused by impacts from adjacent Ovens (i.e. Ovens under the same HRSG)?	Υ			
If yes, identification of the causes of those impacts is required.				
Indentified Causes: Oven B7, which was rebuilt in 2017, is adjacent to Oven B6, which has yet to be rebuilt. B6 has a crack in the	downcomer that extends into B7,			
negatively impact environmental central on P7				

Were any actions taken to stop the Coke Oven Leak?

If yes, a description of the actions taken is required.

Description of actions: For the leak on 01/09/2019, the burner adjusted sole flues and increased draft. For the leak on 01/10/2019, the burner closed the door holes on the C/S and closed the sole flues on both sides of the oven and verified that the P/S door was sufficiently tightened. The burner opened the door holes on B6 to

relieve some pressure on B7 as well.

4	Date of Implentation of Corrective Action(s):	1/11/2019					
	Description of corrective action(s) that are necessary to prevent or reduce the likelihood of a repeated Coke Oven Leak at this Oven:						
	B6 was charged simultaneously with B7, causing issues with a crack between the two ovens. Moving forward, as of 01/11/2019, B6 will no longer be charged with odd ovens (B5 and B7) until it is properly rebuilt. This will apply to ovens B12, which hasn't been rebuilt, and B11, which has been rebuilt. The rest of B Battery is currently being rebuilt, with an expected completion by 11/30/2019.						

5	Multiple Leak Start/End Information:	Leak #1	Leak #2	Leak #3	Leak #4	Leak #5	Leak #6	Leak #7	Leak #8	Leak #9	Leak #10
	Leak Start Date/Time	1/9/19 8:02 AM	1/10/19 7:17 AM								
	Leak End Date/Time	1/9/19 11:00 AM	1/10/19 1:40 PM								
	If the Coke Oven Leaks involved multiple	time periods of e	missions, the starti	ing and endir	ng dates/time	es of each perio	d must be d	ocumented,	to the exte	ent known.	

6	Has communication occurred with Cokenergy when conducting a Full RCFA?	N/A
	Only required for Full RCFA. Summary RCFA does not require communication.	

7	Any applicable information for previous Leaks on this Oven:
8	Any applicable HRSG information:

Attachment A2

Bypass Venting RCFAs Completed

	; Incidents, as defir	ned in Paragraph 8.0	d. of the CD, occurre	d during the reporting	
period.					

Attachment A3 Coke Oven Leak RCFA Corrective Actions

Site	Description of Corrective Action	RCFA Report No.	Reporting Period	Status	Estimated Completion Date	Actual Completion Date
IHCC	Rebuild Oven B6.	9089	1 st Semi-Annual Report 2019	IN PROGRESS	11/30/2019	-

Attachment A4 Bypass Venting RCFA Corrective Actions

No Bypass Venting Incidents, as defined in Paragraph 8.d. of the CD, occurred during the reporting period, therefore, there are no corrective actions to report.	

Attachment B

Main Stack Flow Meter RATA



October 17, 2018

Chief, Environmental Enforcement Section Environment and Natural Resources Division U.S. Department of Justice Box 7611, Ben Franklin Station Washington, DC 20044-7611 Re: DOJ No. 90-5-2-1-08555/1

Compliance Tracker
Air Enforcement and Compliance Assurance Branch
U.S. Environmental Protection Agency – Region 5
77 West Jackson Blvd. AE-18J
Chicago, IL 60604-3590

Phil Perry
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Chief, Air Compliance and Enforcement Branch
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Office of Civil Enforcement
Air Enforcement Division
U.S. Environmental Protection Agency
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Washington, DC 20460

Susan Tennenbaum U.S. Environmental Protection Agency - Region 5 C-14J 77 West Jackson Blvd Chicago, IL 60640

Elizabeth A. Zlatos Indiana Department of Environmental Management Office of Legal Counsel 100 North Senate Avenue MC-60-01, IGCN 1307 Indianapolis, IN 46204-2251

RE: Consent Decree, *United States, et. al. v. Indiana Harbor Coke Company, et. al.*Cokenergy, LLC (Part 70 Permit No. T089-36965-00383)
Cokenergy Flow Monitor Initial Certification and Relative Accuracy Test Audit Report

To Whom It May Concern:

Pursuant to the proposed Consent Decree (CD) entered in federal court on August 13, 2018, Cokenergy is submitting this Relative Accuracy Test Audit (RATA) report for the volumetric flow monitoring system installed on the Cokenergy main stack (Stack 201) in accordance with CD paragraph 19. The RATA was completed on September 12, 2018 and the 7-day calibration drift test was completed between September 8 and September 14, 2018.

The results from the calibration drift test ranged from 0% to 0.4%, well within the \leq 3% of span standard. The RATA results for the flow monitor were 6.40% and 4.09% for the sulfur dioxide (SO₂) emission rate, both well within the \leq 20% standard from the applicable performance specification.

I certify under penalty of law that this information was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my directions and inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties



for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact me at (219) 397-4626.

Sincerely,

Luke E. Ford Director EH&S

cc: East Chicago Public Libraries

East Chicago Public Library 2401 E. Columbus Drive East Chicago, Indiana 46312

East Chicago Public Library 1008 W. Chicago Avenue East Chicago, Indiana 46312

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bzlatos@idem.in.gov

Justin Kirby jlkirby@suncoke.com

Katie Batten kmbatten@suncoke.com

file: X:// 673



CONTINUOUS EMISSIONS MONITORING SYSTEM RELATIVE ACCURACY DETERMINATION AND CERTIFICATION TEST

Performed At

Primary Energy Cokenergy Facility HRCC Stack 201 East Chicago, Indiana

Test Dates

September 12, 2018 (RATA)
September 8 through 14, 2018 (Calibration Drift testing)

Report No.

TRC Environmental Corporation Report 305091

T 312-533-2042 F 312-533-2070

Report Submittal Date

October 15, 2018

TRC Environmental Corporation 7521 Brush Hill Road Burr Ridge, Illinois 60527 USA



Report Certification

I certify that to the best of my knowledge:

- Testing data and all corresponding information have been checked for accuracy and completeness.
- Sampling and analysis have been conducted in accordance with the approved protocol and applicable reference methods (as applicable).
- o All deviations, method modifications, or sampling and analytical anomalies are summarized in the appropriate report narrative(s).

Davi Lenny	-
Gavin Lewis Project Manager	_

October 15, 2018

Date

TRC was operating in conformance with the requirements of ASTM D7036-04 during this test program.

Bruce Randall

TRC Emission Testing Technical Director



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CONTINUOUS EMISSIONS MONITORING SYSTEM RELATIVE ACCURACY DETERMINATION AND CERTIFICATION TEST

1.0 INTRODUCTION

Cokenergy installed a volumetric flow monitoring system as part of their existing Continuous Emissions Monitoring System (CEMS) on the HRCC Stack 201.

The purpose of this test program was to certify the HRCC Stack 201 CEMS. TRC Environmental Corporation (TRC) performed the relative accuracies tests on September 12, 2018 while the unit was operating at greater than 50% of normal load. Primary Energy personnel performed the seven-day calibration drift tests on September 8 through 14. All tests were performed in accordance with methods described in the Code of Federal Regulations, Title 40, Part 60 (40CFR60), Appendix B, Performance Specifications 2 and 3. The test program was conducted according to the Indiana Department of Environmental Management (IDEM) Relative Accuracy Test Audit Notification Protocol dated August 1, 2018.

1.1 Project Contact Information

Participants	Participants							
Test Facility	Primary Energy Cokenergy Facility East Chicago, Indiana	Mr. Luke Ford Director EH&S 219-397-4626 (phone) Iford@primaryenergy.com						
Test Coordinator	Primary Energy 3210 Watling Street East Chicago, Indiana 46312 Permit No. T089-36965-00383	nord@primaryenergy.com						
Air Emissions Testing Body (AETB)	TRC Environmental Corporation 7521 Brush Hill Road Burr Ridge, Illinois 60527	Mr. Gavin Lewis Project Manager 312-533-2025 (phone) 312-533-2070 (fax) glewis@trcsolutions.com						

William Manny, Ryan Novosel and Gavin Lewis of TRC conducted the testing. Documentation of the on-site ASTM D7036-04 Qualified Individual(s) (QI) can be located in the appendix to this report.

No personnel from the IDEM observed the testing.



2.0 SUMMARY OF RESULTS

The results of these tests are presented in the following tables. Tables 2.1 and 2.2 present a summary of the actual performance of each component of the CEMS system, as compared to United States Environmental Protection Agency (USEPA) 40 CFR Part 60 specifications.

Table 2.1 – Gaseous Results

TODIC ZIZ		ascous results							
			Performan	CEMS Performance					
Load	Parameter	Units	Specification No.	Acceptance Criteria	Relative Accuracy				
> 50%	SO ₂	ppmvd	2	RA ≤ 20% of the Reference Method	2.68 %				
> 50%	SO ₂	lb/hr	2	RA ≤ 20% of the Reference Method	4.09 %				
> 50%	O ₂	% dry	3	RA \leq 1.0% difference for $\%O_2$	0.20 %vol diff				

Table 2.2 – Volumetric Flowrate, Performance Specification 6

Serial Number: 0315	18-000-1118-UMCR	Span:	0 – 1,000 kscfm	
Criteria	reria Test Date(s) Required Performance		Actual Performance	
Calibration Error	09/08/18 - 09/14/18	≤ 3.0% of high level value fo	or each of 7 days	<u><</u> 0.4 %
Relative Accuracy	09/12/18	RA ≤ 20% of the Reference	Method (dscfm)	6.40 %



3.0 DISCUSSION OF RESULTS

The complete test results from this program are tabulated in Section 6.0.

The data acquisition and handling system (DAHS) computer printout for the same time periods as the RM testing was used to determine the relative accuracy. The watches of the test crew were synchronized with the CEMS prior to testing.

No problems were encountered with the testing equipment during the course of the test program. Source operation appeared normal during the entire test program and operated at more than 50 percent of full load. The CEMS operation appeared normal with no apparent problems during sampling. No changes or problems were encountered that required modification of any procedures presented in the test plan. No adverse test or environmental conditions were encountered during the conduct of this test program. CEMS operating data was recorded by plant personnel and appended to the report.

4.0 TEST PROCEDURES

All testing, sampling, analytical, and calibration procedures used for this test program were performed in accordance with the methods presented in the following sections. Where applicable, the Quality Assurance Handbook for Air Pollution Measurement Systems, Volume III, Stationary Source Specific Methods, USEPA 600/R-94/038c, September 1994 was used to supplement procedures.

4.1 Calibration Drift Test

Calibration Drift tests were performed by Primary Energy personnel. A summary of the test data is presented in Section 6.1 and supporting documentation is appended to the report.

4.2 Relative Accuracy Tests

4.2.1 CEMS RATA Test Matrix

Parameter	Reference Methods (RM)	No. of Test Runs	Test Run Length (min)
SO ₂	6C (1, 2, 3A, 4 for lb/hr)	10	21
O_2 (CO ₂ for flow only)	3A	10	21
Flow	1, 2 and 4	10	≥ 5



4.2.2 Determination of Sample Point Locations by USEPA Method 1

This method is applicable to gas streams flowing in ducts, stacks, and flues and is designed to aid in the representative measurement of pollutant emissions and/or total volumetric flow rates from stationary sources. In order to qualify as an acceptable sample location, it must be located at a position at least two stack or duct equivalent diameters downstream and a half equivalent diameter upstream from any flow disturbance.

The cross-section of the measurement site was divided into a number of equal areas, and the traverse points were then located in the center of these areas. The minimum number of points were determined from Figure 1-2 (non-particulate) of USEPA Method 1.

4.2.3 Volumetric Flow Rate Determination by USEPA Method 2

This method is applicable for the determination of the average velocity and the volumetric flow rate of a gas stream.

The gas velocity head (ΔP) and temperature were measured at traverse points defined by USEPA Method 1. The velocity head was measured with a Type S (Stausscheibe or reverse type) pitot tube and oil-filled manometer; and the gas temperature was measured with a Type K thermocouple. The average gas velocity in the flue was calculated based on: the gas density (as determined by USEPA Methods 3 and 4); the flue gas pressure; the average of the square roots of the velocity heads at each traverse point, and the average flue gas temperature.

4.2.4 Determination of the Concentration of Gaseous Pollutants Using a Multi-Pollutant Sampling System

Concentrations of the pollutants in the following sub-sections were determined using one sampling system. The number of points at which sample was collected was determined in accordance with 40CFR60 specifications.

A straight-extractive sampling system was used. Gas samples were collected for seven (7) minutes at each of three points (0.4, 1.2 and 2.0 meters) along the stack diameter during each test run. A data logger continuously recorded pollutant concentrations and generated one-minute averages of those concentrations. All calibrations and system checks were conducted using USEPA Protocol gases. Three-point linearity checks were performed prior to sampling, and in the event of a failing system bias or drift test (and subsequent corrective action). System bias and drift checks were performed using the low-level gas and either the mid- or high-level gas prior to and following each test run.



The Low Concentration Analyzers (those that routinely operate with a calibration span of less than 20 ppm) used by TRC are ambient-level analyzers. Per Section 3.12 of Method 7E, a Manufacturer's Stability Test is not required for ambient-level analyzers. Analyzer interference tests were conducted in accordance with the regulations in effect at the time that TRC placed an analyzer model in service.

4.2.4.1 CO₂ Determination by USEPA Method 3A

This method is applicable for the determination of carbon dioxide (CO_2) concentrations in controlled and uncontrolled emissions from stationary sources only when specified within the regulations. The CO_2 analyzer was equipped with a non-dispersive infrared (IR) detector.

4.2.4.2 O₂ Determination by USEPA Method 3A

This method is applicable for the determination of O_2 concentrations in controlled and uncontrolled emissions from stationary sources only when specified within the regulations. The O_2 analyzer was equipped with a paramagnetic-based detector.

4.2.4.3 SO₂ Determination by USEPA Method 6C

This method is applicable for the determination of SO_2 concentrations in controlled and uncontrolled emissions from stationary sources only when specified within the regulations. The SO_2 analyzer was equipped with an ultraviolet (UV) detector.

4.2.5 Moisture Determination by USEPA Method 4

This method is applicable for the determination of the moisture content of stack gas.

A gas sample was extracted at a constant rate from the source. Moisture was removed from the sample stream by a series of pre-weighed impingers immersed in an ice bath. A minimum of 21 dry standard cubic feet of flue gas was collected during each sample run.



5.0 QUALITY ASSURANCE PROCEDURES

TRC integrates our Quality Management System (QMS) into every aspect of our testing service. We follow the procedures specified in current published versions of the test Method(s) referenced in this report. Any modifications or deviations are specifically identified in the body of the report. We routinely participate in independent, third party audits of our activities, and maintain:

- Accreditation from the Louisiana Environmental Laboratory Accreditation Program (LELAP);
- Accreditation from the Stack Testing Accreditation Council (STAC) and the American Association for Laboratory Accreditation (A2LA) that our operations conform with the requirements of ASTM D 7036 as an Air Emission Testing Body (AETB).

These accreditations demonstrate that our systems for training, equipment maintenance and calibration, document control and project management will fully ensure that project objectives are achieved in a timely and efficient manner with a strict commitment to quality.

All calibrations are performed in accordance with the test Method(s) identified in this report. If a Method allows for more than one calibration approach, or if approved alternatives are available, the calibration documentation in the appendices specifies which approach was used. All measurement devices are calibrated or verified at set intervals against standards traceable to the National Institute of Standards and Technology (NIST). NIST traceability information is available upon request.

ASTM D7036-04 specifies that: "AETBs shall have and shall apply procedures for estimating the uncertainty of measurement. Conformance with this section may be demonstrated by the use of approved test protocols for all tests. When such protocols are used, reference shall be made to published literature, when available, where estimates of uncertainty for test methods may be found." TRC conforms with this section by using approved test protocols for all tests.



6.0 TEST RESULTS SUMMARIES



6.1 Calibration Drift Test Results Summary

Owner: Primary Energy
Plant: Cokenergy Facility
Source ID: HRCC Stack 201

CEM Component: Volumetric Flow

 Instrument Span:
 0 - 1,000 kscfm

 Test Dates:
 09/08/18 - 09/14/18

 Certification Criteria:
 40 CFR 60, Appendix B

Day	Load Level	Date	Time	Reference Value	CEM Value	Difference	Calibration Error %
1	Zero	09/08/18	5:33:10	0.00	3.00	3.00	0.3
2	Zero	09/09/18	5:33:09	0.00	2.00	2.00	0.2
3	Zero	09/10/18	5:33:14	0.00	3.90	3.90	0.4
4	Zero	09/11/18	5:33:12	0.00	3.70	3.70	0.4
5	Zero	09/12/18	5:33:12	0.00	3.90	3.90	0.4
6	Zero	09/13/18	5:33:12	0.00	3.70	3.70	0.4
7	Zero	09/14/18	5:33:11	0.00	3.60	3.60	0.4
1	Span	09/08/18	5:36:10	750.00	749.50	0.50	0.1
2	Span	09/09/18	5:36:08	750.00	749.20	0.80	0.1
3	Span	09/10/18	5:36:15	750.00	750.30	0.30	0.0
4	Span	09/11/18	5:36:14	750.00	750.10	0.10	0.0
5	Span	09/12/18	5:36:13	750.00	750.10	0.10	0.0
6	Span	09/13/18	5:36:12	750.00	750.00	0.00	0.0
7	Span	09/14/18	5:36:13	750.00	750.00	0.00	0.0

Drift Specification: Flow CEM: ≤ 3% of span maximum



6.2 Relative Accuracy Summaries



RATA Type: Sulfur Dioxide (SO₂), ppm

Regulation: 40CFR60

RM Used: 6C

Custome	er:	Primary Energ	у		Project #:	305091	
Unit ID:		HRCC			CEM Model:	Thermo Scientific 43i-HL	
Sample	Loc:	Stack 201			CEM Serial #:	1152150034	
Use?					RM	CEM	(RM-CEM)
1 = Y	Test		Start	End	SO ₂	SO ₂	Difference
0 = N	Run	Date	Time	Time	ppmvd	ppmvd	(di)
1	1	9/12/18	7:15	7:35	155.5	160.1	-4.6
1	2	9/12/18	8:00	8:20	151.7	154.3	-2.6
1	3	9/12/18	8:40	9:00	155.5	158.0	-2.5
1	4	9/12/18	9:20	9:40	144.9	148.6	-3.7
0	5	9/12/18	10:00	10:20	139.3	143.9	-4.6
1	6	9/12/18	10:45	11:05	132.6	135.5	-2.9
1	7	9/12/18	11:25	11:45	134.6	138.7	-4.1
1	8	9/12/18	12:05	12:25	135.1	138.2	-3.1
1	9	9/12/18	12:45	13:05	128.3	130.4	-2.1
1	10	9/12/18	13:25	13:45	123.3	125.3	-2.0

n	9	
t(0.975)	2.306	
Mean RM Value	140.167	RM avg
Mean CEM Value	143.233	CEM avg
Mean Difference	-3.067	d avg
Standard Deviation	0.899	sd
Confidence Coefficient	0.691	CC
RA based on RM	2.68	%



RATA Type: Sulfur Dioxide (SO₂), lb/hr

Regulation: 40CFR60 RM Used: 2-4, 6C

Custome	er:	Primary Energ	у		Project #:	305091	
Unit ID:		HRCC			CEM Model:	Thermo Scientific 43i-HL	
Sample	Loc:	Stack 201			CEM Serial #:	1152150034	
Use?					RM	CEM	(RM-CEM)
1 = Y	Test		Start	End	SO ₂	SO ₂	Difference
0 = N	Run	Date	Time	Time	lb/hr	lb/hr	(di)
1	1	9/12/18	7:15	7:35	995.5	953.3	42.2
0	2	9/12/18	8:00	8:20	985.6	915.4	70.2
1	3	9/12/18	8:40	9:00	978.4	935.2	43.2
1	4	9/12/18	9:20	9:40	899.6	873.7	25.9
1	5	9/12/18	10:00	10:20	867.5	854.9	12.6
1	6	9/12/18	10:45	11:05	837.5	805.9	31.6
1	7	9/12/18	11:25	11:45	844.0	825.2	18.8
1	8	9/12/18	12:05	12:25	855.6	826.7	28.9
1	9	9/12/18	12:45	13:05	807.9	781.9	26.0
1	10	9/12/18	13:25	13:45	760.6	738.5	22.1

n	9	
t(0.975)	2.306	
Mean RM Value	871.844	RM avg
Mean CEM Value	843.922	CEM avg
Mean Difference	27.922	d avg
Standard Deviation	10.071	sd
Confidence Coefficient	7.741	CC
RA based on RM	4.09	%



RATA Type: Oxygen (O₂), % by volume

Regulation: 40CFR60

RM Used: 3A

Custome	er:	Primary Energ	У		Project #:	305091	
Unit ID:		HRCC			CEM Model:	Brand Gaus 470)5
Sample	Loc:	Stack 201			CEM Serial #:	11401	
Use?					RM	CEM	(RM-CEM)
1 = Y	Test		Start	End	O_2	O_2	Difference
0 = N	Run	Date	Time	Time	% v/v dry	% v/v dry	(di)
1	1	9/12/18	7:15	7:35	12.6	12.8	-0.2
1	2	9/12/18	8:00	8:20	12.7	12.9	-0.2
1	3	9/12/18	8:40	9:00	12.8	13.0	-0.2
1	4	9/12/18	9:20	9:40	13.0	13.2	-0.2
1	5	9/12/18	10:00	10:20	13.0	13.2	-0.2
1	6	9/12/18	10:45	11:05	13.1	13.3	-0.2
1	7	9/12/18	11:25	11:45	13.2	13.4	-0.2
1	8	9/12/18	12:05	12:25	13.4	13.6	-0.2
1	9	9/12/18	12:45	13:05	13.5	13.7	-0.2
0	10	9/12/18	13:25	13:45	13.5	13.7	-0.2

n	9	
t(0.975)	2.306	
Mean RM Value	13.033	RM avg
Mean CEM Value	13.233	CEM avg
Mean Difference	-0.200	d avg
Standard Deviation	0.000	sd
Confidence Coefficient	0.000	CC
RA (Absolute Mean Difference)	0.20	% vol diff.



RATA Type: Flow, (DSCFM)*, High Load

Regulation: 40CFR60

RM Used: 2

Custor	ner:	Primary Energy - C	okenerg	y Facility		Project #:	305091
Unit ID	:	HRCC				CEM Model:	
Location	n:	Stack 201				CEM Serial #:	031518-000-1118-UMCR
Use?					RM	CEM	(RM-CEM)
1 = Y	Test		Start	End	Volumetric Flow	Volumetric Flow	Difference
0 = N	Run	Date	Time	Time	(DSCFM)*	(DSCFM)*	(di)
1	1	9/12/2018	07:15	07:25	643,000	598,000	45,000
0	2	9/12/2018	08:00	08:08	652,000	597,000	55,000
1	3	9/12/2018	08:40	08:49	632,000	592,000	40,000
1	4	9/12/2018	09:20	09:28	623,000	580,000	43,000
1	5	9/12/2018	10:00	10:10	625,000	597,000	28,000
1	6	9/12/2018	10:45	10:54	634,000	598,000	36,000
1	7	9/12/2018	11:25	11:33	630,000	599,000	31,000
1	8	9/12/2018	12:05	12:13	636,000	599,000	37,000
1	9	9/12/2018	12:45	12:53	632,000	601,000	31,000
1	10	9/12/2018	13:25	13:33	619,000	590,000	29,000

n	9
t(0.975)	2.306
Mean RM Value	630,444.444 RM avg
Mean CEM Value	594,888.889 CEM avg
Mean Difference	35,555.556 d avg
Standard Deviation	6,207.075 sd
Confidence Coefficient	4,771.172 CC
Relative Accuracy	6.40 % RA

^{*}Standard conditions of 29.92 in/Hg and 68° F

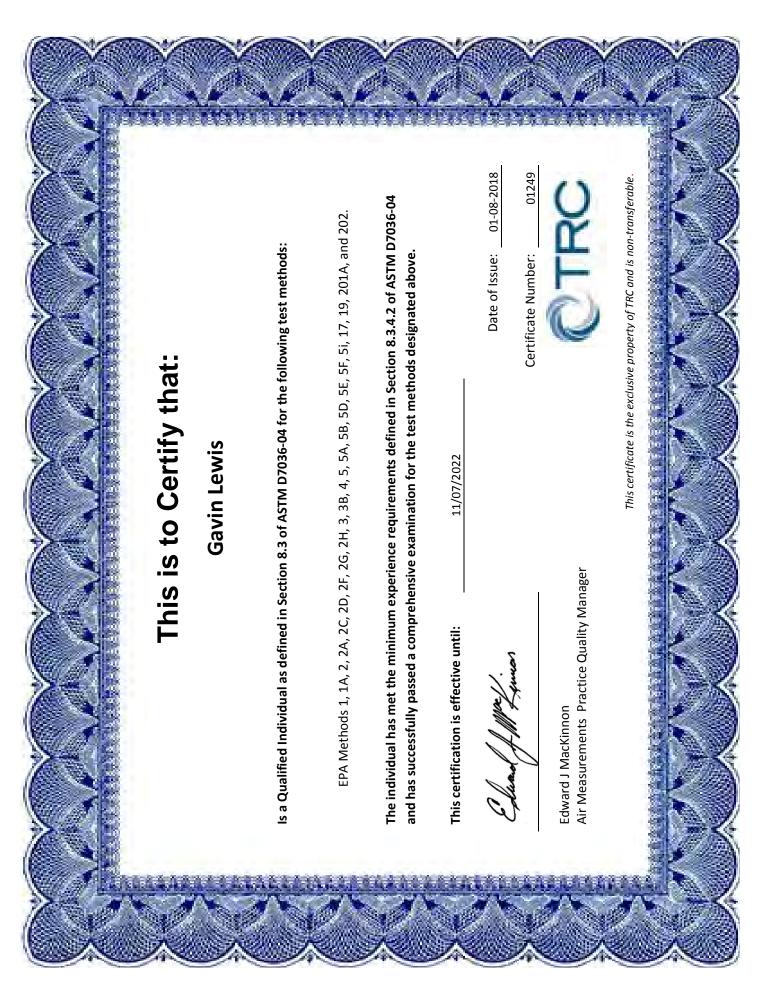
APPENDIX

AETB and QI Information Summary

Facility Name:	Primary Energy – Cokenergy Facility
Location:	HRCC Stack 201
Test Date:	September 12, 2018 (RATA)



Test Parameters:	1, 2, 3A, 4, 6C
QI Last Name:	Lewis
QI First Name:	Gavin
QI Middle Initial:	
AETB Name:	TRC Environmental Corporation
AETB Phone No:	312-533-2025
AETB Email:	glewis@trcsolutions.com
Group 1 Exam Date:	11/07/2017
Provider Name:	Source Evaluation Society
Provider Email:	qstiprogram@gmail.com
Group 3 Exam Date:	01/05/2018
Provider Name:	Source Evaluation Society
Provider Email:	qstiprogram@gmail.com





Primary Energy Coke	Φ	Calib	Calibration Report	ort		Created on : (Created on : Oct 02, 2018 08:07:44
East Chicago, IN		0/60	09/08/2018 - 09/14/2018	8			STACK 201
Date Timestamp Parameter	o Parameter	Type	Measured	Expected	Error	Tolerance	Result
09/08/2018							
05:33:10	VOL FLOW, KSCFM	Zero	3.0	0.0	0.3	က	Pass
05:36:10	VOL FLOW, KSCFM	Span	749.5	750.0	0.1	က	Pass
09/09/2018							
05:33:09	VOL FLOW, KSCFM	Zero	2.0	0.0	0.2	ო	Pass
05:36:08	VOL FLOW, KSCFM	Span	749.2	750.0	0.1	က	Pass
09/10/2018							
05:33:14	VOL FLOW, KSCFM	Zero	3.9	0.0	0.4	က	Pass
05:36:15	VOL FLOW, KSCFM	Span	750.3	750.0	0.0	က	Pass
09/11/2018							
05:33:12	VOL FLOW, KSCFM	Zero	3.7	0.0	0.4	က	Pass
05:36:14	VOL FLOW, KSCFM	Span	750.1	750.0	0.0	က	Pass
09/12/2018							
05:33:13	VOL FLOW, KSCFM	Zero	3.9	0.0	0.4	က	Pass
05:36:13	VOL FLOW, KSCFM	Span	750.1	750.0	0.0	က	Pass
09/13/2018							
05:33:12	VOL FLOW, KSCFM	Zero	3.7	0.0	9.0	ო	Pass
05:36:12	VOL FLOW, KSCFM	Span	750.0	750.0	0:0	က	Pass
09/14/2018							
05:33:11	VOL FLOW, KSCFM	Zero	3.6	0.0	9.0	ო	Pass
05:36:13	VOL FLOW, KSCFM	Span	750.0	750.0	0.0	က	Pass

			INTITY Data INPOIL	and I am man		
East Chicago, IN			9/12/2018 7:15:00 AM - 9/12/2018 7:35:00 AM	9/12/2018 7:35:00 A	M	STACK 201
Time	SO2, PPM	02 DRY, %	O2 WET, %	H2O, %	SO2, LB/HR	
07:15:00	164.8	12.8	11.0	11.7	982.1	
07:16:00	162.6	12.8	11.0	11.7	965.2	
07:17:00	165.0	12.8	11.0	11.7	984.7	
07:18:00	166.2	12.8	11.0	11.7	992.2	
07:19:00	163.5	12.8	11.0	11.7	978.9	
07:20:00	161.7	12.8	11.0	11.7	958.4	
07:21:00	159.4	12.8	11.0	11.7	949.9	
07:22:00	157.9	12.8	11.0	11.7	937.5	
07:23:00	158.7	12.8	11.0	11.7	942.1	
07:24:00	159.0	12.8	11.0	11.7	947.8	
07:25:00	158.3	12.8	11.0	11.7	949.0	
07:26:00	158.8	12.8	11.0	11.7	933.2	
07:27:00	158.8	12.8	11.0	11.7	954.1	
07:28:00	157.9	12.8	11.0	11.7	951.5	
07:29:00	157.9	12.8	11.0	11.7	937.8	
07:30:00	159.7	12.8	11.0	11.7	938.1	
07:31:00	158.5	12.8	11.0	11.7	947.0	
07:32:00	158.4	12.8	11.0	11.7	954.3	
07:33:00	160.1	12.8	11.0	11.7	942.9	
07:34:00	157.1	12.8	11.0	11.7	929.9	
07:35:00	158.0	12.8	11.0	11.7	942.3	
Average :	160.1	12.8	11.0	11.7	953.3	

RATA Run # 1 Verified Bx:

CEMDAS EvolutionTM

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SO2, PPM O2 DRY, % O2 WET, % 154.1 12.9 11.1 156.3 12.9 11.1 12.9 11.1 155.5 12.9 11.1 155.0 12.9 11.1 155.0 12.9 11.1 155.0 12.9 11.1 157.5 12.9 11.1 157.5 12.9 11.1 157.5 12.9 11.1 158.8 12.9 11.1 158.8 12.9 11.1 158.8 12.9 11.1 158.8 12.9 11.1 158.3 12.9 11.1 158.3 15.9 11.1 158.3 15.9 11.1 158.3 15.9 11.1 158.3 15.9 11.1 158.3 15.9 11.1 158.3 15.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 12.9 11.1 157.5 157.5 15.9 11.1 157.5 157.5 15.9 11.1 157.5 157.5 15.9 11.1 157.5 157.5 15.9 11.1 157.5 157.5 15.9 11.1 157.5 157.5 15.9 11.1 157.5 157.5 15.9 11.1 157.5 157.5 15.9 11.1 157.5 157.5 15.9 11.1 157.5 157.5 15.9 11.1 157.5 157.5 15.9 11.1 157.5 157.5 15.9 11.1 157.5 1
154.0 12.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.5 15.5 12.9 11.1 11.6 11.6 15.0 12.9 11.1 11.6 11.6 15.0 12.9 11.1 11.6 11.6 15.1 12.9 11.1 11.6 11.6 15.3 15.3 15.4 12.9 11.1 11.6 11.6 15.3 15.3 15.3 15.3 15.3 15.3 15.3 15.3
154.0 12.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.0 12.9 11.1 11.6 11.6 15.0 12.9 11.1 11.6 11.6 15.2 12.9 11.1 11.6 11.6 11.6 15.3 12.9 11.1 11.6 11.6 11.6 11.6 11.6 11.6 11
156.3 12.9 11.1 11.6 11.6 11.6 11.6 11.1 11.6 11.6 11.1 11.6 11.6 11.1 11.6 11.1 11.6 11.1 11.6 11.1 11.6 11.1 11.6 11.1 11.6 11.1 11.6 11.1 11.6 11.1 11.6 11.1 11.6 11.1 11.6 11.1 11.6 11.6 11.1 11.1 11.6 11.1 11.1 11.1 11.6 11.1
15.5 12.9 11.1 11.6 154.0 12.9 11.1 11.6 155.0 12.9 11.1 11.6 153.1 12.9 11.1 11.6 15.6 12.9 11.1 11.6 15.1 12.9 11.1 11.6 15.3 12.9 11.1 11.6 15.3 12.9 11.1 11.6 15.3 12.9 11.1 11.6 15.4 12.9 11.1 11.6 15.3 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9 11.1 11.6 15.5 12.9
154.0 12.9 11.1 11.6 155.0 12.9 11.1 11.6 155.0 12.9 11.1 11.6 154.6 12.9 11.1 11.6 151.6 12.9 11.1 11.6 152.5 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.7 12.9 11.1 11.6 155.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6
154.0 12.9 11.1 11.6 155.0 12.9 11.1 11.6 154.6 12.9 11.1 11.6 151.6 12.9 11.1 11.6 152.5 12.9 11.1 11.6 154.5 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.7 12.9 11.1 11.6 156.2 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6
155.0 12.9 11.1 11.6 11.6 15.1 12.9 11.1 11.6 11.6 15.4.5 12.9 11.1 11.6 11.6 15.4.5 12.9 11.1 11.6 11.6 15.3.8 12.9 11.1 11.6 11.6 15.3.8 12.9 11.1 11.6 11.6 15.3.8 12.9 11.1 11.6 11.6 15.3.4 12.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.5 15.5 12.9 11.1 11.6 11.6 11.6 11.6 11.6 11.6 11
153.1 12.9 11.1 11.6 11.6 15.6 12.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.8 12.9 11.1 11.6 11.6 153.8 12.9 11.1 11.6 11.6 153.8 12.9 11.1 11.6 11.6 153.4 12.9 11.1 11.6 11.6 15.6 15.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.5 12.9 11.1 11.6 11.6 15.7.5 12.9 11.1 11.6 11.6 15.7.5 12.9 11.1 11.6 11.6 15.7.5 12.9 11.1 11.6 11.6 15.7.5 12.9 11.1 11.6 11.6 11.6 11.6 11.6 11.6 11
154.6 12.9 11.1 11.6 152.5 12.9 11.1 11.6 151.1 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.8 12.9 11.1 11.6 154.3 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6
151.6 12.9 11.1 11.6 11.6 152.5 12.9 11.1 11.6 11.6 153.8 12.9 11.1 11.6 11.6 153.8 12.9 11.1 11.6 11.6 153.4 12.9 11.1 11.6 11.6 153.7 12.9 11.1 11.6 11.6 154.3 12.9 11.1 11.6 11.6 157.5 12.9 11.1 11.6 11.6 157.5 12.9 11.1 11.6 11.6 157.5 12.9 11.1 11.6 11.6 157.5 12.9 11.1 11.6 11.6 11.6 157.5 12.9 11.1 11.6 11.6 157.5 12.9 11.1 11.6 11.6 11.6 11.6 11.6 11.6 11
152.5 12.9 11.1 11.6 11.6 15.4 12.9 11.1 11.6 11.6 153.8 12.9 11.1 11.6 153.4 12.9 11.1 11.6 11.6 153.7 12.9 11.1 11.6 11.6 154.3 12.9 11.1 11.6 11.6 157.5 12.9 11.1 11.6 11.6 157.5 12.9 11.1 11.6 11.6 157.5 12.9 11.1 11.6 11.6 157.5 12.9 11.1 11.6 11.6 157.5 12.9 11.1
151.1 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.4 12.9 11.1 11.6 153.7 12.9 11.1 11.6 154.3 12.9 11.1 11.6 156.2 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6
154.5 12.9 11.1 11.6 153.8 12.9 11.1 11.6 153.4 12.9 11.1 11.6 153.7 12.9 11.1 11.6 154.3 12.9 11.1 11.6 156.2 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6
153.8 12.9 11.1 153.8 12.9 11.1 153.4 12.9 11.1 153.7 12.9 11.1 154.3 12.9 11.1 156.2 12.9 11.1 157.5 12.9 11.1 157.5 12.9 11.1
153.8 12.9 11.1 11.6 153.4 12.9 11.1 11.6 154.3 12.9 11.1 11.6 156.2 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6
153.4 12.9 11.1 11.6 153.7 12.9 11.1 11.6 154.3 12.9 11.1 11.6 156.2 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6
153.7 12.9 11.1 11.6 154.3 12.9 11.1 11.6 156.2 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6
154.3 12.9 11.1 11.6 156.2 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1
156.2 12.9 11.1 11.6 157.5 12.9 11.1 11.6 157.5 12.9 11.1
157.5 12.9 11.1 11.6 157.5 12.9 11.1 11.6
157.5 12.9 11.1 11.6
Average: 154.3 12.9 11.1 11.6 915.4
* Invalid Status
Invalid Status

Created on : Sep 12, 2018 08:23:16

RATA Data Report

Primary Energy Coke

East Chicago, IN			*** 00 01 0 01000			STACK 201
			9/12/2018 8:40:00 AM -	9/12/2018 8:40:00 AM - 9/12/2018 9:00:00 AM	M	Fridance with the St. Pr
j		70 7800 000	70 1-177-00			
ıme	SOZ, PPIM	UZ DRY, %	OZ WEI, %	H2O, %	SOZ, LB/HR	
08:40:00	156.6	13.0	11.2	11.5	924.5	
08:41:00	156.2	12.9	11.2	10.9	919.0	
08:42:00	157.7	13.0	11.2	11.5	942.4	
08:43:00	157.2	13.0	11.1	12.3	921.1	
08:44:00	159.4	13.0	11.2	11.5	944.0	
08:45:00	159.4	13.0	11.2	11.5	942.1	
08:46:00	159.5	13.0	11.2	11.5	940.8	
08:47:00	160.7	13.0	11.2	11.5	950.4	
08:48:00	159.3	13.0	11.2	11.5	928.2	
08:49:00	160.4	13.0	11.2	11.5	948.3	
08:50:00	159.9	13.0	11.2	11.5	952.2	
08:51:00	156.4	13.0	11.2	11.5	932.6	
08:52:00	157.8	13.0	11.2	11.5	930.6	
08:53:00	156.6	13.0	11.2	11.5	927.9	
08:54:00	156.5	13.0	11.2	11.5	928.2	
08:55:00	157.4	13.0	11.2	11.5	941.2	
08:56:00	155.8	13.0	11.2	11.5	919.0	
08:57:00	157.9	13.0	11.2	11.5	936.1	
08:58:00	158.5	13.0	11.2	11.5	949.9	
08:59:00	157.4	13.0	11.2	11.5	927.5	
00:00:60	156.9	13.1	11.2	12.2	933.1	
Average :	158.0	13.0	11.2	11.5	935.2	
* Statis	tatis					
Invalid	status					

Page 1 of 1

220.00 189.3 13.3 11.5 11.3 795.1 221.00 142.0 13.3 11.5 11.3 795.8 222.00 142.5 13.3 11.5 11.3 795.8 223.00 142.5 13.3 11.5 11.3 795.8 224.00 145.8 13.2 11.4 11.4 87.8 225.00 145.8 13.2 11.4 11.4 87.8 226.00 151.9 13.2 11.4 11.4 87.8 228.00 151.9 13.2 11.4 11.4 87.8 228.00 151.9 13.2 11.4 11.4 89.6 228.00 151.4 11.4 11.4 89.1 228.00 151.2 11.4 11.4 89.5 230.00 151.2 11.4 11.4 89.5 230.00 152.1 11.4 11.4 89.5 230.00 150.2 13.2 11.4 11.4	139.3 13.3 11.5 11.3 11.5 11.3 14.2 14.2 13.3 11.5 11.3 11.3 14.2 14.2 14.2 13.3 11.5 11.3 11.3 14.2 14.2 13.3 11.5 11.3 11.3 11.5 11.3 11.3 11.5 11.3 11.3	148.3 11.5 11.3 796.1 142.0 13.3 11.5 11.3 796.8 142.0 13.3 11.5 11.3 796.8 142.2 13.3 11.5 11.3 796.8 143.6 13.3 11.5 11.3 796.8 144.8 13.2 11.4 11.4 878.4 114.4 878.4 114.4 878.4 114.4 878.4 114.4 878.4 114.4 878.4 114.4 878.4 114.4 878.4 114.4 878.6 113.2 114.4 114.4 894.6 113.2 114.4 114.4 894.6 113.2 114.4 114.4 894.6 113.2 114.4 114.4 894.6 113.2 114.4 114.4 894.6 113.2 114.4 114.4 897.6 113.2 114.4 114.4 897.6 113.2 114.4 114.4 897.4 114.4 114.4 897.4 114.4 114.4 897.7 114.4 897.7 114.4 114.4 897.7	139.3 13.3 11.5 11.3 14.2 142.0 13.3 14.5 14.5 14.2 14.2 14.2 14.2 14.2 14.3 14.5 14.3 14.5 14.2 14.2 14.3 14.5 14.3 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	93.3 11.3 11.5 11.3 726.1 12.2 13.3 11.5 11.3 726.1 13.3 11.5 11.3 726.1 13.3 11.5 11.3 726.1 13.3 11.5 11.3 726.1 13.3 11.5 11.3 726.1 13.3 11.5 11.4 11.4 726.1 13.2 11.4 11.4 726.1 726.1 13.2 11.4 11.4 726.1 726.	Time	SO2, PPM	02 DRY, %	O2 WET, %	H2O, %	SO2, LB/HR
142.0 13.3 11.5 11.3 11.3 11.5 11.3 11.5 11.3 11.5 11.3 11.5 11.3 11.5 11.3 11.5 11.3 11.5 11.3 11.5 11.3 11.5 11.3 11.5 11.3 11.5 11.3 11.4 11.4 11.4 11.4 11.4 11.4 11.4	142.0 13.3 11.5 11.3 11.3 14.2 14.2 14.2 14.2 14.2 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.4 14.4 14.4 14.4 14.4 14.4 14.4	142.0 13.3 11.5 11.3 795.8 142.5 142.5 143.3 11.5 11.3 795.8 142.5 143.3 11.5 11.3 795.8 142.2 13.3 11.5 11.3 795.8 144.8 145.8 13.2 11.4 11.4 876.8 147.8 149.9 13.2 11.4 11.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 876.8 147.1 14.4 14.4 876.8 147.1 14.4 14.4 14.4 14.4 14.4 14.4 14.	142.0 13.3 11.5 11.3 795.8 142.5 143.6 143.2 144.6 144.8 878.4 144.8 878.4 144.8 878.4 144.8 878.4 144.8 878.4 144.8 878.6 143.2 144.4 144.8 894.5 143.2 144.4 144.8 894.5 143.2 144.4 144.8 894.5 143.2 144.4 144.8 897.4 144.1 144.8 897.4 144.1 144.8 897.4 144.1 144.8 897.4 144.1 144.8 897.4 144.8 897.4 144.8 897.4 144.8 897.4 144.3 143.2 144.4 144.8 897.8 144.8 144.8 897.8 144.8 144.8 897.8 144	42.0 (13.3 (11.5 (11.3 796.8 (11.3 (1.3 (09:20:00	139.3	13.3	11.5	11.3	795.1
142.5 13.3 11.5 11.3 11.5 11.3 142.2 13.3 145.6 143.6 143.6 143.6 143.6 143.6 143.6 143.6 143.6 143.6 143.6 144.6 144.8 148.3 143.2 144.4 14.4 14.4 14.4 14.4 14.4 14.4 1	142.5 13.3 11.5 11.3 11.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.5 14.3 14.4 14.4 14.4 14.4 14.4 14.4 14.4	142.5 13.3 11.5 11.3 796.8 14.2 14.2 14.3 14.2 14.2 14.3 14.2 14.2 14.3 14.2 14.3 14.2 14.3 14.2 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3	142.5 13.3 11.5 11.3 756.8 142.2 13.3 11.5 11.3 839.4 142.8 143.8	42.5 13.3 11.5 11.3 70.6.8 4.4. 4.6. 11.3 11.3 8.9.4 4.4. 4.6. 11.3 11.3 8.9.4 4.4. 4.6. 11.3 11.3 8.4.1 11.4 8.7.8 4.1 11.4 8.7.8 4.1 11.4 8.7.8 4.1 11.4 8.7.8 4.1 11.4 8.7.8 6.5 8.3.0 11.3 11.4 11.4 8.7.6 8.3.0 11.3 11.4 11.4 8.7.6 8.3.0 11.3 11.4 11.4 8.7.6 8.3.0 11.3 11.4 11.4 8.7.4 8.7.4 8.7.4 11.4 11.4 8.7.4 8.7.4 11.4 11.4 8.7.4 8.7.7 11.4 11.4 8.7.7 11.5 8.7.7 11.5 8.7.3 11.5 11.4 11.5 8.7.4 11.5 8.7.4 11.5 8.7.3 11.5 11.5 8.7	09:21:00	142.0	13.3	11.5	11.3	791.3
142.2 13.3 11.5 11.3 11.5 11.3 14.6 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8	142.2 13.3 11.5 11.3 11.3 14.5 11.3 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	142.2 13.3 11.5 11.3 839.4 143.6 143.8 143.8 143.8 143.8 143.8 143.8 143.8 143.8 143.8 143.8 143.8 143.8 143.8 143.8 143.8 144.8 144.8 144.8 143.2 144.4 144.8 143.8 143.2 144.4 144.8 143.8 143.2 144.4 144.8 143.8 143.2 144.4 144.8 143	1422 13.3 11.5 11.3 839.4 143.6 143.8 11.3 834.1 144.8 145.8 143.2 11.5 11.3 84.1 144.8 145.8 143.2 11.4 11.4 878.4 149.9 13.2 11.4 11.4 878.8 141.4 149.9 13.2 11.4 11.4 891.1 141.1 141.	43.2 13.3 11.5 11.3 839.4 43.6 13.3 11.5 11.3 839.4 43.8 13.2 11.4 11.4 84.18 43.9 13.2 11.4 11.4 876.8 51.9 13.2 11.4 11.4 876.8 51.1 13.2 11.4 11.4 896.5 53.0 13.2 11.4 11.4 996.5 53.1 13.2 11.4 11.4 998.5 50.3 13.2 11.4 11.4 894.5 50.3 13.2 11.4 11.4 894.5 50.1 13.1 11.4 11.4 898.7 50.1 13.2 11.4 11.4 898.7 50.1 13.1 11.4 11.4 898.7 50.1 13.2 11.4 11.4 898.7 50.1 13.1 11.4 11.7 887.8 50.1 13.2 11.4 11.7 887.8 50.1 13.1 11.4 11.7 887.8 50.1 13.1 11.4 11.3 87.3 50.1 13.2 11.4 11.3 87.3.7	09:22:00	142.5	13.3	11.5	11.3	795.8
143.6 13.3 11.5 11.3 11.4 11.4 11.4 11.4 11.4 11.4 11.4	143.6 13.3 11.5 11.3 11.5 11.3 145.8 145.8 13.2 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11	143.6 13.3 11.5 11.3 834.1 145.8 145.8 145.8 145.8 145.8 145.8 145.8 145.8 145.8 145.8 145.8 145.8 145.8 145.8 145.8 145.8 145.9 145.8 145.9 145.8 145.9 145	143.6 13.3 11.5 11.3 834.1 145.8 13.2 11.4 11.4 878.4 149.9 13.2 11.4 11.4 876.8 149.9 13.2 11.4 11.4 876.8 140.7 13.2 11.4 11.4 896.5 142.4 13.2 11.4 11.4 896.6 153.4 13.2 11.4 11.4 894.5 153.0 13.2 11.4 11.4 894.5 153.0 13.2 11.4 11.4 897.4 150.3 13.1 11.4 897.4 150.1 13.1 11.4 897.4 150.1 13.1 11.4 897.7 149.9 11.5 898.9 e: 148.6 13.2 11.4 11.3 873.7 TA.Run #4 TA.Ru	4.36 113.3 115 113. 83.41 4.58 13.2 114 114 87.8 4.9.3 13.2 114 114 87.8 4.9.3 13.2 114 114 87.8 51.4 13.2 114 114 89.5 52.4 13.2 114 114 89.5 53.0 13.2 114 114 89.5 53.1 13.2 114 114 89.5 53.1 13.2 114 114 89.5 50.3 13.2 114 114 89.5 50.1 13.1 11.3 11.5 89.5 50.1 13.2 11.4 11.3 87.5 51.1 13.2 11.4 11.3 87.3.7 51.1 13.2 11.4 11.3 87.3.7	09:23:00	142.2	13.3	11.5	11.3	839.4
145.8 13.2 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11	145.8 13.2 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11	145.8 13.2 11.4 11.4 847.8 148.3 13.2 11.4 11.4 847.8 148.3 13.2 11.4 11.4 878.4 149.9 13.2 11.4 11.4 876.8 15.4 13.2 11.4 11.4 876.8 15.4 13.2 11.4 11.4 897.6 15.3 13.2 11.4 11.4 897.6 15.3 13.2 11.4 11.4 897.6 15.3 13.2 11.4 11.4 897.7 15.0 13.2 11.4 11.5 897.4 15.0 13.2 11.4 11.5 897.4 15.0 13.2 11.4 11.5 897.7 149.3 13.1 11.4 11.5 897.7 149.3 13.1 11.4 11.5 897.7 11.5 149.3 13.1 11.4 11.5 897.7 11.5 11.5 11.5 11.5 11.5 11.5 11.5 1	145.8 13.2 11.4 11.4 847.8 148.3 13.2 11.4 11.4 87.8 148.3 13.2 11.4 11.4 87.8 148.3 13.2 11.4 11.4 87.8 15.9 15.2 13.2 11.4 11.4 891.5 15.2 15.2 11.4 11.4 891.5 15.2 15.2 11.4 11.4 894.5 15.2 11.4 11.4 894.5 15.3 13.2 11.4 11.4 894.5 15.3 13.2 11.4 11.4 897.7 150.3 13.2 11.4 11.4 897.7 150.3 13.2 11.4 11.4 897.7 150.1 13.2 11.4 11.5 897.7 151.1 13.2 11.4 11.5 898.9 17.1 151.1 13.2 11.4 11.5 898.9 17.1 17.4 17.3 873.7 17.4 17.3 873.7 17.4 17.3 873.7 17.4 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	46.8 13.2 11.4 84.78 48.3 13.2 11.4 11.4 87.84 48.9 13.2 11.4 11.4 87.84 48.9 13.2 11.4 11.4 87.88 55.4 13.2 11.4 11.4 90.5 55.4 13.2 11.4 11.4 90.5 55.1 13.2 11.4 11.4 89.5 50.3 13.2 11.4 11.4 89.5 50.3 13.2 11.4 11.4 89.5 50.1 13.1 11.4 11.4 89.7 50.1 13.2 11.4 11.4 89.7 50.1 13.1 11.4 11.4 89.7 50.1 13.2 11.4 11.4 89.7 50.1 13.2 11.4 11.4 89.7 50.1 13.2 11.4 11.4 89.7 50.1 13.2 11.4 11.3 87.3.7 51.1 13.2 11.4 11.3 87.3.7	09:24:00	143.6	13.3	11.5	11.3	834.1
148.3 13.2 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11	148.3 13.2 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11	148.3 13.2 11.4 11.4 878.4 11.9 11.9 11.2 11.4 878.4 11.9 11.2 11.4 11.4 878.8 11.2 11.4 11.4 878.8 11.2 11.4 11.4 896.8 11.1 11.4 896.6 11.2 11.4 11.4 896.6 11.4 11.4 896.6 11.4 11.4 894.5 11.2 11.4 11.4 894.5 11.2 11.4 11.4 893.0 11.2 11.4 11.4 893.0 11.2 11.4 11.4 893.0 11.2 11.4 11.4 897.7 11.3 11.4 11.4 897.7 11.3 11.4 11.4 897.7 11.4 11.4 897.7 11.4 11.5 898.9 11.4 11.3 873.7 11.5 898.9 11.5 11.5 898.9 11.5 11.5 898.9 11.5 11.5 898.9 11.5 11.5 898.9 11.5 11.5 898.9 11.5 11.5 898.9 11.5 11.5 898.9 11.5 11.5 898.9 11.5 11.5 898.9 11.5 11.5 873.7	148.3 13.2 11.4 11.4 878.4 11.4 878.8 14.9 11.5 13.2 11.4 11.4 876.8 14.9 15.9 13.2 11.4 11.4 876.8 15.1 15.2 13.2 11.4 11.4 891.1 15.2 13.2 11.4 11.4 894.5 15.2 15.3 13.2 11.4 11.4 894.5 15.3 13.1 11.4 11.4 894.5 15.0 15.0 13.2 11.4 11.4 894.5 15.0 15.0 13.1 11.4 11.4 894.5 15.0 15.0 13.1 11.4 11.4 897.7 15.0 15.0 13.1 11.4 11.4 897.7 11.4 897.7 11.4 11.4 897.7 11.4 11.4 897.7 11.4 11.4 897.7 11.4 11.4 897.7 11.4 11.4 897.7 11.4 11.4 897.7 11.4 11.4 897.7 11.5 898.9 11.5 878.6 11.4 11.4 11.4 897.7 11.5 11.5 898.9 11.5 873.7 11.5 873.7	48.3 13.2 11.4 878.4 49.9 13.2 11.4 876.8 51.9 13.2 11.4 11.4 891.1 51.7 13.2 11.4 11.4 891.1 51.7 13.2 11.4 11.4 892.6 53.4 13.2 11.4 11.4 892.6 53.0 13.2 11.4 11.4 892.6 53.1 13.1 11.4 11.4 892.7 50.3 13.1 11.4 11.4 897.7 50.1 13.2 11.4 11.7 897.7 50.1 13.2 11.4 11.3 873.7 51.1 13.2 11.4 11.3 873.7 51.1 13.2 11.4 11.3 873.7 51.1 13.2 11.4 11.3 873.7	09:25:00	145.8	13.2	11.4	11.4	847.8
149.9 13.2 11.4 11.4 11.4 11.4 15.9 15.2 11.4 11.4 11.4 15.2 11.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4	149.9 13.2 11.4 11.4 11.4 11.4 15.9 15.9 13.2 11.4 11.4 11.4 11.4 15.2 15.4 15.4 13.2 11.4 11.4 11.4 11.4 15.3 15.3 15.3 15.3 15.3 15.3 15.3 15.3	149.9 13.2 11.4 11.4 876.8 151.9 13.2 11.4 11.4 876.8 151.9 13.2 11.4 11.4 891.1 151.2 15.4 13.2 11.4 11.4 895.6 153.4 13.2 11.4 11.4 895.6 153.0 13.2 11.4 11.4 895.6 153.0 13.2 11.4 11.4 894.5 153.0 13.2 11.4 11.4 893.0 150.3 13.1 11.4 11.4 897.4 150.3 13.2 11.4 11.4 897.4 150.1 13.2 11.4 11.4 897.7 150.1 13.2 11.4 11.5 898.9 e.: 148.6 13.2 11.4 11.3 873.7 TA Run #4	149.9 13.2 11.4 876.8 876.8 151.9 13.2 11.4 876.8 876.8 151.9 13.2 11.4 11.4 876.8 877.1 151.2 13.1 11.4 11.4 886.6 152.4 13.2 11.4 11.4 886.6 153.4 13.2 11.4 11.4 884.5 153.1 13.2 11.4 11.4 893.0 15.3 13.2 11.4 11.4 897.4 150.1 13.2 11.4 10.7 898.5 150.1 13.1 11.4 897.7 150.1 13.2 11.4 10.7 898.9 897.7 151.1 13.2 11.4 10.7 898.9 17.1 17.3 873.7 17.8 17.3 17.1 17.3 873.7 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17	49.9 13.2 11.4 11.4 876.8 51.9 13.2 11.4 11.4 896.5 52.4 13.2 11.4 10.7 900.5 53.4 13.2 11.4 11.4 907.5 55.0 13.2 11.4 11.4 909.5 50.3 13.1 11.4 10.7 918.1 50.2 13.2 11.4 11.4 897.4 50.1 13.1 11.3 11.5 897.7 50.1 13.2 11.4 11.7 897.7 50.1 13.2 11.4 11.7 897.7 50.1 13.2 11.4 11.3 873.7	09:26:00	148.3	13.2	11.4	11.4	878.4
151.9 13.2 11.4 11.4 11.4 11.4 15.7 15.4 15.2 17.4 17.4 10.7 15.2 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4	151.9 13.2 11.4 11.4 11.4 10.7 152.4 13.2 11.4 10.7 11.4 10.7 15.3.0 13.2 11.4 11.4 11.4 10.7 150.3 13.1 13.2 11.4 11.5 150.2 13.2 11.4 11.5 150.1 13.2 11.4 11.5 150.1 13.2 11.4 11.5 150.1 13.2 11.4 11.5 11.5 150.1 13.2 11.4 11.5 11.5 11.5 149.3 13.1 11.5 11.5 11.5 11.5 11.5 11.5 11	151.9 13.2 11.4 11.4 891.1 151.7 13.2 11.4 11.4 891.1 152.4 13.2 11.4 10.7 890.5 152.4 13.2 11.4 11.4 895.6 153.4 13.2 11.4 11.4 894.5 153.0 13.2 11.4 11.4 894.5 153.0 13.2 11.4 11.4 893.0 150.3 13.1 11.4 11.4 897.4 150.3 13.1 11.3 11.5 897.6 150.1 13.1 11.4 897.7 150.1 13.1 11.4 897.7 149.3 13.1 11.4 11.5 898.9 e.: 148.6 13.2 11.4 11.3 873.7 TA Run #4 TA Run	151.9 13.2 11.4 11.4 891.1 151.7 13.2 11.4 11.4 891.1 151.2 13.2 11.4 11.4 895.6 152.4 13.2 11.4 11.4 895.6 153.4 13.2 11.4 11.4 895.6 153.4 13.2 11.4 11.4 895.6 153.1 13.2 11.4 11.4 897.4 150.3 13.2 11.4 11.4 897.4 150.3 13.2 11.4 11.4 897.4 150.1 13.1 11.4 897.4 11.4 897.4 11.4 897.7 149.3 13.2 11.4 11.5 898.9 898.	51.9 13.2 11.4 11.4 881.1 61.7 900.5 61.2 11.4 11.4 10.7 900.5 61.2 11.4 11.4 10.7 900.5 61.2 11.4 11.4 895.6 61.2 11.4 11.4 895.6 61.2 11.3 11.4 11.4 895.6 61.3 11.3 11.4 11.4 893.0 60.3 11.3 11.4 11.4 897.7 60.3 11.3 11.4 11.4 897.7 60.1 11.4 11.4 10.7 998.7 61.1 11.3 11.5 896.9 61.1 11.4 11.3 873.7 886.9 61.3 11.4 11.3 873.7 886.9 61.3 11.4 11.3 873.7 886.9 61.3 11.4 11.3 873.7 886.9 61.3 11.4 11.3 873.7 886.9 61.3 11.4 11.3 873.7 886.9 61.3 11.4 11.3 873.7 886.9 61.3 11.4 11.3 873.7 886.9 61.3 11.4 11.3 873.7 886.9 61.3 11.4 11.3 873.7	09:27:00	149.9	13.2	11.4	11.4	876.8
151.7 13.1 11.4 10.7 152.4 13.2 11.4 11.4 11.4 11.4 153.4 13.2 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11	151.7 13.1 11.4 10.7 15.4 15.2 11.4 11.4 10.7 15.3 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11	151.7 13.1 11.4 10.7 900.5 152.4 13.2 11.4 10.7 900.5 153.4 13.2 11.4 11.4 895.6 153.0 13.2 11.4 11.4 909.5 153.1 13.2 11.4 10.7 909.5 150.3 13.2 11.4 10.7 908.7 150.1 13.1 11.4 10.7 908.7 150.1 13.1 11.4 10.7 908.7 151.1 13.2 11.4 897.7 149.3 13.2 11.4 11.5 898.9 e: 148.6 13.2 11.4 11.5 898.9 miled Status	151.7 13.1 11.4 10.7 900.5 152.4 13.2 11.4 10.7 900.5 152.4 13.2 11.4 11.4 907.6 153.4 13.2 11.4 11.4 907.6 153.0 13.2 11.4 11.4 907.6 153.1 13.2 11.4 11.4 909.5 153.1 13.2 11.4 11.4 893.0 150.3 13.1 11.4 897.7 150.1 13.1 11.4 897.7 150.1 13.1 11.4 897.7 150.1 13.1 11.4 897.7 149.3 13.2 11.4 11.5 898.9 e.: 148.6 13.2 11.4 11.3 873.7 TA Run #4	54.7 13.1 11.4 10.7 900.5 52.4 13.2 11.4 11.4 895.6 52.4 13.2 11.4 11.4 907.6 53.0 11.3 11.4 907.6 53.0 11.3 11.4 907.6 53.0 11.3 11.4 11.4 909.5 53.0 11.3 11.4 11.4 909.5 53.0 11.3 11.4 11.4 909.5 50.3 11.3 11.4 11.4 908.7 11.5 893.0 908.7 11.4 11.4 11.4 897.7 11.4 11.4 897.7 11.4 11.3 873.7 11.5 898.9 11.5 11.3 873.7 11.5 898.9 11.5 11.5 898.9 11.5 11.5 898.9 11.5 11.5 898.9 11.5 898.9 11.5 11.5 898.9	09:28:00	151.9	13.2	11.4	11.4	891.1
152.4 13.2 11.4 11.4 11.4 11.4 153.4 13.2 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11	152.4 13.2 11.4 11.4 11.4 11.4 153.4 13.2 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11	152.4 13.2 11.4 11.4 895.6 1153.4 13.2 11.4 11.4 895.6 1153.4 13.2 11.4 11.4 807.6 1153.0 13.2 11.4 11.4 809.5 11.4 11.4 909.5 11.3 11.4 11.4 909.5 11.4 11.4 909.5 11.4 11.4 893.0 11.5 897.4 150.1 13.2 11.4 11.4 897.4 151.1 13.2 11.4 11.5 898.9 e.: 148.6 13.2 11.4 11.3 873.7	152.4 13.2 11.4 11.4 895.6 153.4 13.2 11.4 895.6 153.4 13.2 11.4 11.4 897.6 153.0 13.2 11.4 11.4 909.5 153.0 13.2 11.4 11.4 909.5 153.0 13.2 11.4 11.4 909.5 150.3 13.2 11.4 11.4 897.7 150.1 13.1 11.4 11.4 897.7 150.1 13.1 11.4 897.7 11.4 897.7 149.3 13.2 11.4 11.5 898.9 11.5 873.7	25.4 13.2 11.4 11.4 885.6 5.3.4 13.2 11.4 11.4 885.6 5.3.4 13.2 11.4 11.4 884.5 5.3.0 13.2 11.4 11.4 884.5 5.3.1 13.1 11.4 11.4 887.4 5.0.2 13.2 11.4 11.4 887.4 5.0.2 13.1 11.4 11.4 887.4 887.4 887.4 11.3 11.3 873.7 88.6 13.2 11.4 11.3 873.7 88.6 13.2 11.4 11.3 873.7 88.6 13.2 11.4 11.3 873.7	09:29:00	151.7	13.1	11.4	10.7	900.5
153.4 13.2 11.4 11.4 11.4 11.4 15.2 15.2 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4	153.4 13.2 11.4 11.4 11.4 11.4 15.2 15.2 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4	153.4 13.2 11.4 11.4 907.6 15.2 153.0 13.2 11.4 11.4 894.5 15.3 153.0 13.2 11.4 11.4 894.5 153.0 13.2 11.4 11.4 909.5 15.3 15.3 13.2 11.4 10.7 908.5 150.2 13.2 11.4 11.4 897.4 150.1 13.2 11.4 10.7 908.7 151.1 13.2 11.4 11.4 897.7 149.3 13.1 11.3 873.7 148.6 13.2 11.4 11.3 873.7 148.6 13.2 11.4 11.3 873.7 148.6 13.2 11.4 11.3 873.7 148.6 13.2 11.4 11.3 873.7	153.4 13.2 11.4 11.4 907.6 151.2 13.2 11.4 907.6 151.2 13.2 11.4 11.4 894.5 153.0 13.2 11.4 11.4 894.5 153.0 13.2 11.4 10.7 918.1 150.3 13.1 11.4 11.4 893.0 150.2 13.2 11.4 11.4 897.7 150.1 13.2 11.4 11.4 897.7 149.3 13.2 11.4 11.3 873.7	53.4 13.2 11.4 907.6 55.1 13.2 11.4 907.6 55.1 13.2 11.4 11.4 909.5 55.1 13.2 11.4 11.4 909.5 55.3 13.1 11.4 11.7 893.0 55.2 13.2 11.4 11.5 897.7 55.1 13.2 11.4 11.5 898.9 8.6 13.2 11.4 11.3 873.7 US	09:30:00	152.4	13.2	11.4	11.4	895.6
151.2 13.2 11.4 11.4 11.4 11.4 153.0 13.2 11.4 11.4 10.7 153.1 13.1 11.4 10.7 150.3 13.2 11.4 11.5 150.2 13.2 14.4 11.5 150.1 13.1 11.4 10.7 151.1 13.2 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11	151.2 13.2 11.4 11.4 11.4 11.4 153.0 13.2 11.4 11.4 11.4 11.4 10.7 150.3 13.2 11.4 11.4 11.5 150.2 13.2 11.4 11.4 11.5 150.1 13.1 11.4 10.7 150.1 13.1 11.4 11.5 11.5 11.5 11.5 11.5 11.5 11	151.2 13.2 11.4 11.4 894.5 153.0 13.2 11.4 11.4 894.5 153.0 13.2 11.4 11.4 909.5 153.1 13.1 11.4 10.7 909.5 150.3 13.2 11.4 11.4 11.4 893.0 150.2 13.2 11.4 11.4 897.7 150.1 13.2 11.4 11.4 897.7 149.3 13.1 11.4 898.9 17.5 17.5 873.7 17.5 873.7 17.5 873.7 17.5 873.7 17.5 873.7 17.5 873.7 17.5 873.7 17.5 873.7 17.5 873.7 17.5 873.7 17.5 873.7 17.5 873.7 17.5 873.7 17.5 873.7 17.5 875.5 17.5 873.7	151.2 13.2 11.4 11.4 894.5 153.0 13.2 11.4 11.4 894.5 153.0 13.2 11.4 11.4 909.5 153.1 13.1 11.4 10.7 909.5 150.3 13.1 11.4 11.4 897.4 150.2 13.2 11.4 11.4 897.4 150.1 13.2 11.4 11.4 897.7 149.3 13.1 11.3 11.5 898.9 17.7 149.3 13.2 11.4 11.3 873.7 17.8 17.4 11.3 873.7 17.8 17.4 11.3 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	55.0 13.2 11.4 11.4 884.5 85.0 13.2 11.4 11.4 884.5 85.0 13.2 11.4 11.4 11.4 995.5 85.0 13.1 11.4 10.7 918.1 893.0 13.1 11.4 11.4 893.0 13.2 11.4 11.4 897.7 11.4 897.7 11.5 886.9 11.5 11.5 886.9 11.5 11.5 873.7 11.5 873.	09:31:00	153.4	13.2	11.4	11.4	907.6
153.0 13.2 11.4 11.4 11.4 153.1 153.1 153.1 11.4 10.7 150.3 13.2 11.4 11.5 150.2 13.2 13.2 11.4 11.5 150.1 13.1 11.4 10.7 151.1 13.2 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11	153.0 13.2 11.4 11.4 11.4 153.1 153.1 153.1 11.4 10.7 150.3 13.2 11.4 11.5 150.2 13.1 11.4 11.4 10.7 150.1 13.1 11.4 10.7 150.1 13.2 11.4 11.5 11.5 11.5 11.5 11.5 11.5 11.5	153.0 13.2 11.4 11.4 909.5 153.1 13.1 11.4 10.7 918.1 150.3 13.2 11.4 10.7 918.1 150.3 13.1 11.4 10.7 993.0 150.2 13.2 11.4 11.5 876.6 150.1 13.1 11.4 10.7 908.7 150.1 13.1 11.4 11.5 898.9 e: 148.6 13.2 11.4 11.3 873.7 TA Run #4	153.0 13.2 11.4 11.4 909.5 15.1 15.3.1 11.4 11.4 909.5 15.1 15.3.1 11.4 10.7 918.1 150.3 13.2 11.4 11.4 893.0 15.0.2 13.2 11.4 11.4 897.7 150.1 13.2 11.4 11.5 898.9 17.7 149.3 13.2 11.4 11.3 873.7	53.0 13.2 11.4 11.4 909.5 55.1 13.1 11.4 10.7 918.1 11.4 10.7 918.1 11.4 11.4 10.7 918.1 11.4 11.4 11.4 11.4 11.4 11.4 11.4	09:32:00	151.2	13.2	11.4	11.4	894.5
153.1 13.1 11.4 10.7 150.3 13.2 11.4 11.4 11.4 11.4 11.5 150.2 13.2 11.4 11.5 150.1 13.1 11.4 11.5 150.1 13.1 11.4 11.5 11.5 11.5 11.5 11.5 11.5 11	153.1 13.1 11.4 10.7 150.3 13.2 11.4 11.4 11.4 11.4 11.5 150.3 13.2 11.5 11.6 11.4 11.5 150.1 13.1 11.4 11.4 11.4 11.5 11.5 11.5 11.5 11	153.1 13.1 11.4 10.7 918.1 150.3 13.2 11.4 11.4 893.0 150.3 13.1 11.4 11.5 876.6 150.2 13.2 11.4 11.4 897.4 150.1 13.1 11.4 897.7 150.1 13.2 11.4 11.4 897.7 149.3 13.1 11.4 11.5 898.9 e: 148.6 13.2 11.4 11.3 873.7	153.1 13.1 11.4 10.7 918.1 150.3 13.2 11.4 10.7 918.1 150.3 13.2 11.4 11.4 893.0 150.3 13.1 11.4 11.5 893.0 150.1 13.2 11.4 11.4 893.0 150.1 13.1 11.4 10.7 908.7 150.1 13.2 11.4 11.5 898.9 150.1 13.2 11.4 11.3 873.7 150.1 13.2 11.4 11.3 873.7 150.1 13.2 11.4 11.3 873.7 150.1	53.1 13.1 11.4 10.7 918.1 56.3 13.2 11.4 10.7 893.0 56.3 13.1 11.3 11.5 897.6 56.1 13.2 11.4 10.7 897.7 56.1 13.2 11.4 10.7 897.7 56.1 13.2 11.4 11.3 873.7 57.1 13.2 11.4 11.3 873.7 58.6 13.2 11.4 11.3	09:33:00	153.0	13.2	11.4	4.11	909.5
150.3 13.2 11.4 11.4 11.4 11.5 150.3 13.1 11.3 11.5 11.5 11.5 150.2 13.2 11.4 11.4 10.7 151.1 13.2 11.4 11.5 11.5 e: 148.6 13.2 11.4 11.3 8	150.3 13.2 11.4 11.4 11.4 11.5 150.3 13.2 11.5 11.5 150.2 13.2 11.4 11.5 11.4 10.7 150.1 13.2 11.4 10.7 11.4 10.7 11.4 11.5 11.5 11.5 11.5 11.5 11.5 11.5	150.3 13.2 11.4 11.4 893.0 150.3 13.1 11.4 893.0 150.2 13.1 11.3 11.5 876.6 150.1 13.1 11.4 11.4 897.4 10.7 908.7 150.1 13.1 11.4 11.4 11.4 897.7 149.3 13.1 11.3 11.4 11.3 873.7	150.3 13.2 11.4 11.4 893.0 150.3 13.2 11.4 11.4 893.0 150.3 13.1 11.3 11.5 876.6 150.1 13.2 11.4 10.7 908.7 150.1 13.2 11.4 11.4 897.7 149.3 13.1 11.4 11.5 898.9 e: 148.6 13.2 11.4 11.3 873.7	50.3 13.2 11.4 11.4 893.0 50.3 13.2 11.5 876.6 50.2 13.2 11.4 11.4 897.4 50.1 13.1 11.4 10.7 908.7 51.1 13.2 11.4 11.5 898.9 58.6 13.2 11.4 11.3 873.7 US	09:34:00	153.1	13.1	11.4	10.7	918.1
150.2 13.1 11.3 11.5 150.2 13.2 11.4 11.4 150.1 13.1 11.4 10.7 151.1 13.2 11.4 11.5 e: 148.6 13.2 11.4 11.3 8	150.3 13.1 11.3 11.5 150.2 150.2 13.2 11.4 10.7 150.1 13.1 11.4 10.7 151.1 13.1 11.4 11.5 11.5 11.5 11.5 11.5 11.5 11	150.3 13.1 11.3 11.5 876.6 150.2 13.2 11.4 11.4 897.4 150.1 13.1 11.4 10.7 908.7 150.1 13.2 11.4 10.7 908.7 149.3 13.1 11.3 873.7 11.6 873.7 11	150.3 13.1 11.3 11.5 87.6 150.2 13.2 11.4 11.4 897.4 150.1 13.1 11.4 11.4 897.7 150.1 13.2 11.4 11.4 897.7 149.3 13.1 11.5 898.9 e: 148.6 13.2 11.4 11.3 873.7	50.3 13.1 11.3 11.5 87.6 50.2 13.2 11.4 11.4 897.4 11.4 897.7 11.4 11.4 897.7 11.3 873.7 11.5 873.7	09:35:00	150.3	13.2	11.4	11.4	893.0
150.2 13.2 11.4 11.4 150.1 13.1 11.4 10.7 151.1 13.2 11.4 11.4 149.3 13.1 11.3 11.5 e: 148.6 13.2 11.4 11.3 8	150.2 13.2 11.4 11.4 11.4 150.7 150.1 13.1 11.4 10.7 150.1 13.2 11.4 10.7 11.4 11.5 11.5 11.5 8 11.5 8 11.5 8 11.5 8 11.3	150.2 13.2 11.4 11.4 897.4 150.1 13.1 11.4 897.7 150.1 13.2 11.4 10.7 908.7 149.3 13.1 11.4 11.5 898.9 e. 148.6 13.2 11.4 11.3 873.7	150.2 13.2 11.4 11.4 897.4 150.1 13.1 11.4 897.4 10.7 908.7 151.1 13.2 11.4 10.7 908.7 149.3 13.1 11.3 11.5 898.9 e.: 148.6 13.2 11.4 11.3 873.7 TA Run #4	50.2 13.2 11.4 11.4 897.4 50.1 13.1 11.4 10.7 908.7 11.4 10.7 908.7 51.1 13.2 11.4 11.5 898.9 11.3 11.3 873.7 11.3 873.7 11.3 873.7 11.3 11.3 873.7	09:36:00	150.3	13.1	11.3	11.5	876.6
150.1 13.1 11.4 10.7 151.1 13.2 11.4 11.4 149.3 13.1 11.4 11.5 e: 148.6 13.2 11.4 11.3 8	150.1 13.1 11.4 10.7 151.1 13.2 11.4 11.4 149.3 13.1 11.4 11.5 e: 148.6 13.2 11.4 11.3 8	150.1 13.1 11.4 10.7 908.7 151.1 13.2 11.4 10.7 908.7 149.3 13.1 11.4 11.5 898.9 898.9 e: 148.6 13.2 11.4 11.3 873.7	150.1 13.1 11.4 10.7 908.7 151.1 13.2 11.4 10.7 908.7 11.4 15.2 11.4 11.5 898.9 898.9 e: 148.6 13.2 11.4 11.3 873.7	50.1 13.1 11.4 10.7 908.7 13.2 11.4 11.5 898.9 898.9 898.9 87.3 11.5 873.7 11.5 873.7 11.5 873.7 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11	09:37:00	150.2	13.2	11.4	11.4	897.4
151.1 13.2 11.4 11.4 149.3 13.1 11.3 11.5 e: 148.6 13.2 11.4 11.3 8 valid Status	151.1 13.2 11.4 11.4 11.4 11.4 11.5 11.5 11.5 11.5	For the second of the second o	151.1 13.2 11.4 11.4 897.7 149.3 13.1 11.3 898.9 898.9 11.5 898.9	51.1 13.2 11.4 11.4 897.7 14.3 13.1 11.3 873.7 8.6 13.2 11.4 11.3 873.7 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11	09:38:00	150.1	13.1	11.4	10.7	7.806
e: 148.6 13.2 11.4 11.3 8 valid Status	e: 148.6 13.2 11.4 11.3 8	e: 148.6 13.2 11.5 898.9 valid Status TA Run #4 TA Run #4 Tified By:	149.3 13.1 11.5 898.9 e: 148.6 13.2 11.4 11.3 873.7 valid Status TA Run #4 rified By:	49.3 13.1 11.5 898.9 -8.6 13.2 11.4 11.3 873.7	00:68:60	151.1	13.2	11.4	11.4	7.78
: 148.6 13.2 11.4 11.3	: 148.6 13.2 11.4 11.3 alid Status	11.3 873.7 11.4 11.3 873.7 slid Status A Run #4 Run #4	11.4 11.3 873.7 slid Status A Run #4 A Run #4	8.6 13.2 11.4 11.3 873.7 us	09:40:00	149.3	13.1	11.3	11.5	898.9
* Invalid Status	* Invalid Status	As m		ST TO THE TOTAL PROPERTY OF THE TOTAL PROPER	Average :	148.6	13.2	11.4	11.3	873.7
		A SA	A STATE OF THE PROPERTY OF THE		* Invalid	Status				
		July 1			RATAR	3 nn #4	M NOW			
RATA Run #4	RATA Run #4				Verified		12/1			
					ADAS Evoluti	MTac				DAMAS

Created on : Sep 12, 2018 09:44:42

STACK 201

RATA Data Report 9/12/2018 9:20:00 AM - 9/12/2018 9:40:00 AM

Primary Energy Coke

East Chicago, IN

<u>z</u>			000000000000000000000000000000000000000		
		9/12/2018 10:00:00 AM - 9/12/2018 10:20:00 AM	9/12/2018 10:20:00	AM	STACK 201
	O2 DRY. %	O2 WET. %	H2O. %	SO2. LB/HR	
		11.4	11.4	863.4	
10:01:00 143.8	13.1	11.4	10.7	854.6	
10:02:00 143.1	13.2	11.4	11.4	857.2	
10:03:00 143.1	13.2	11.4	11.4	860.7	
10:04:00 145.4	13.2	11.4	11.4	865.1	
10:05:00 144.9	13.2	11.4	11.4	860.7	
10:06:00 144.5	13.2	11.4	11.4	852.7	
10:07:00 146.2	13.2	11.4	11.4	877.9	
10:08:00 145.4	13.2	11.4	11.4	854.3	
10:09:00 147.1	13.2	11.4	11.4	878.6	
10:10:00 146.1	13.2	11.4	4.11	855.2	
10:11:00 148.1	13.2	11.4	11.4	875.8	
10:12:00 143.9	13.2	11.4	11.4	859.9	
10:13:00 142.1	13.2	11.4	11.4	853.2	
10:14:00 143.2	13.2	11.4	11.4	849.6	
10:15:00 141.4	13.2	11.4	11.4	832.5	
10:16:00 142.9	13.2	11.4	11.4	855.7	
10:17:00 141.8	13.2	11.4	11.4	830.3	
10:18:00 142.9	13.2	11.4	11.4	849.1	
10:19:00 141.7	13.2	11.4	11.4	847.2	
139.2	13.2	11,4	4.11	818.3	
Average: 143.9	13.2	11.4	11.4	854.9	

RATA Run #5

CEMDAS EvolutionTM

East Chicago, IN						
İ		57	9/12/2018 10:45:00 AM - 9/12/2018 11:05:00 AM	9/12/2018 11:05:00	AM	STACK 201
<u>1</u>	Mdd 20S	O2 DRY %	02 WFT %	H2O %	SO2 B/HB	
10:45:00	136.1	13.2	11.4	11.4	809.3	
10:46:00	136.3	13.3	11.5	11.3	804.5	
10:47:00	137.9	13.2	11.4	11.4	812.0	
10:48:00	136.4	13.3	11.5	11.3	809.8	
10:49:00	137.7	13.3	11.5	11.3	818.8	
10:50:00	135.1	13.2	11.5	10.6	811.3	
10:51:00	137.5	13.3	11.5	11.3	819.8	
10:52:00	136.4	13.3	11.5	11.3	818.9	
10:53:00	134.7	13.2	11.5	10.6	807.9	
10:54:00	136.6	13.3	11.5	11.3	810.1	
10:55:00	135.5	13.3	11.5	11.3	812.4	
10:56:00	135.6	13.3	11.5	11.3	794.4	
10:57:00	136.8	13.3	11.5	11.3	818.3	
10:58:00	134.9	13.3	11.5	11.3	803.6	
10:59:00	134.2	13.3	11.5	11.3	802.5	
11:00:00	134.2	13.3	11.5	11.3	796.4	
11:01:00	135.0	13.3	11.5	11.3	799.1	
11:02:00	133.1	13.3	11.5	11.3	791.3	
11:03:00	134.7	13.3	11.5	11.3	798.8	
11:04:00	134.1	13.3	11.5	11.3	799.9	
11:05:00	133.0	13.3	11.5	11.3	785.4	
Average :	135.5	13.3	11.5	11.2	805.9	
* Invalid Status	tatus					
* Invalid S	tatus					

CEMDAS EvolutionTM

 age Lot I)

East Chicago, IN		C	200.30.11	0140/0010 11.15.00		TO CALO
		n	9/12/2018 11:25:00 AM - 9/12/2018 11:45:00 AM	9/12/2010 11.43.00	Divi	SIACK 201
Time	SO2, PPM	O2 DRY, %	O2 WET, %	H2O, %	SO2, LB/HR	
11:25:00	135.8	13.3	11.6	10.5	819.9	
11:26:00	135.6	13.4	11.6	11.2	804.7	
11:27:00	137.4	13.4	11.6	11.2	816.4	
11:28:00	136.4	13.4	11.6	11.2	816.5	
11:29:00	138.4	13.4	11.6	11.2	820.0	
11:30:00	137.6	13.4	11.6	11.2	816.5	
11:31:00	137.8	13.4	11.6	11.2	829.7	
11:32:00	137.8	13.4	11.6	11.2	813.5	
11:33:00	138.0	13.4	11.6	11.2	825.5	
11:34:00	136.5	13.4	11.6	11.2	811.9	
11:35:00	138.3	13.4	11.6	11.2	813.9	
11:36:00	138.1	13.4	11.6	11.2	818.3	
11:37:00	139.4	13.4	11.6	11.2	832.8	
11:38:00	139.7	13.4	11.6	11.2	829.1	
11:39:00	139.6	13.4	11.6	11.2	822.6	
11:40:00	140.9	13.4	11.6	11.2	843.1	
11:41:00	139.4	13.4	11.6	11.2	826.3	
11:42:00	140.7	13.4	11.7	10.4	834.5	
11:43:00	140.5	13.4	11.7	10.4	835.3	
11:44:00	141.2	13.4	11.7	10.4	844.8	
11:45:00	143.0	13.5	11.7	1. 1.	853.1	
Average:	138.7	13.4	11.6	11.0	825.2	

RATA Run #7

D1	7.		

6	oke		KAIAD	KAIA Data Report		Created on : Sep 12, 2018 12:32:29
East Chicago, IN			9/12/2018 12:05:00 PM - 9/12/2018 12:25:00 PM	9/12/2018 12:25:00	PM	STACK 201
Time	SO2, PPM	O2 DRY, %	O2 WET, %	H2O, %	SO2, LB/HR	
12:05:00	140.5	13.6	11.8	11.0	841.3	
12:06:00	139.0	13.6	11.8	11.0	830.5	
12:07:00	140.4	13.6	11.8	11.0	835.7	
12:08:00	139.6	13.6	11.8	11.0	822.8	
12:09:00	138.7	13.6	11.8	11.0	830.5	
12:10:00	139.1	13.6	11.8	11.0	827.1	
12:11:00	136.9	13.6	11.8	11.0	818.0	
12:12:00	137.3	13.6	11.8	11.0	830.1	
12:13:00	137.0	13.6	11.8	11.0	814.2	
12:14:00	139.1	13.6	11.8	11.0	838.9	
12:15:00	139.1	13.6	11.8	11.0	837.5	
12:16:00	139.9	13.6	11.9	10.3	838.6	
12:17:00	140.5	13.6	11.9	10.3	848.4	
12:18:00	140.1	13.7	11.9	10.9	834.7	
12:19:00	140.7	13.6	11.9	10.3	859.9	
12:20:00	137.1	13.6	11.8	11.0	813.3	
12:21:00	135.7	13.7	11.9	10.9	800.5	
12:22:00	135.6	13.6	11.9	10.3	818.0	
12:23:00	134.5	13.6	11.8	11.0	802.3	
12:24:00	135.7	13.6	11.9	10.3	808.2	
12:25:00	136.7	13.7	11.9	10.9	810.7	
Average	138.2	13.6	11.8	10.8	826.7	

RATA Run #8 Verified By:

* Invalid Status

East Chicago, IN 9/12/2018 12:45:00 PM - 9/12/2018 1:05:00 PM Time SO2, PPM O2 DRY, % O2 WET, % H2O, % SO 12:45:00 133.8 13.7 11.9 10.9 7 12:46:00 135.2 13.7 11.9 10.9 7 12:47:00 131.5 13.7 11.9 10.9 7 12:48:00 131.5 13.7 11.9 10.9 7	
SO2, PPM O2 DRY, % O2 WET, % H2O, % 133.8 13.7 11.9 10.9 135.2 13.7 11.9 10.9 131.5 13.4 13.7 11.9 10.9	PM STACK 201
133.8 13.7 11.9 10.9 135.2 13.7 11.9 10.9 133.4 13.7 11.9 10.9 131.5 13.7 11.9 10.9	SO2, LB/HR
135.2 13.7 11.9 10.9 133.4 13.7 11.9 10.9 131.5 13.7 11.9 10.9	799.3
133.4 13.7 11.9 10.9 131.5 13.7 11.9 10.9	810.2
131.5 13.7 11.9 10.9	792.7
1007	782.4
1.53.4	776.5
10.9	779.0
12.0 10.2	780.9
12.0	781.6
12.0 10.2	785.4
129.5 13.7 12.0 10.2	776.1
130.5 13.7 12.0 10.2	781.3
128.6 13.7 11.9 10.9	771.7
130.1 13.7 12.0 10.2	779.3
130.4 13.7 12.0 10.2	781.2
129.6 13.7 12.0 10.2	788.2
129.0 13.7 11.9 10.9	765.9
131.1 13.7 12.0 10.2	786.6
129.4 13.7 12.0 10.2	776.6
128.4 13.7 12.0 10.2	7777
129.3 13.7 12.0 10.2	772.7
127.9 13.7 12.0 10.2	775.5
Average: 130.4 13.7 12.0 10.5 78	
	781.9
	781.9

SO2, PPM 128.4 125.6 123.7		9/12/2018 1:25:00 PM - 9/12/2018 1:45:00 PM	8 1:25:00 PM - 9/12/2018 1:45:00 P	Σ	STACK 201
SO2, PPM 128.4 125.6 123.7					
128.4 125.6 123.7	02 DRY, %	O2 WET, %	H2O, %	SO2, LB/HR	
125.6 123.7	13.7	11.9	10.9	747.9	
123.7	13.7	11.9	10.9	726.3	
	13.7	11.9	10.9	730.1	
13:28:00 123.7	13.7	11.9	10.9	735.9	
13:29:00 124.3	13.7	11.9	10.9	726.1	
13:30:00 124.6	13.7	11.9	10.9	733.9	
13:31:00 121.5	13.7	11.9	10.9	716.6	
123.0	13.7	11.9	10.9	725.0	
	13.7	11.9	10.9	813.7	
139.8	13.7	11.9	10.9	830.3	
136.2	13.7	11.9	10.9	804.0	
121.5	13.7	12.0	10.2	720.6	
	13.7	11.9	10.9	712.0	
13:38:00 121.6	13.7	12.0	10.2	715.4	
13:39:00 123.4	13.7	12.0	10.2	736.8	
13:40:00 122.6	13.7	12.0	10.2	720.9	
13:41:00 123.1	13.7	12.0	10.2	729.5	
121.8	13.7	12.0	10.2	719.3	
13:43:00 122.9	13.7	12.0	10.2	719.9	
13:44:00 123.4	13.8	12.0	10.9	724.5	
122.0	13.7	12.0	10.2	719.7	
105 0	7 07	C	0	1000	
	13.7		0.0	7.38.5	

Page 1 of 1

CEMDAS EvolutionTM

East Chicago, IN	VOL FLOW,	ภิ	// // // O L // . L // WW W // . T - //	
	VOL FLOW,		9/12/2018 /:15:00 AM - 9/12/2018 /:25:00 AM	SIACK 201
Time	KSCFM	VOL FLOW DRY, KSCFM		
07:15:00	677.6	598.3		
07:16:00	675.0	596.0		
07:17:00	678.6	599.2		
07:18:00	678.8	599.4		
07:19:00	680.7	601.1		
07:20:00	673.9	595.1		
07:21:00	9.779	598.3		
07:22:00	675.1	596.1		
07:23:00	675.0	596.0		
07:24:00	677.8	598.5		
07:25:00	681.6	601.9		
Average :	677.4	598.2		
* Invali	* Invalid Status			
RATA Run Verified By	RATA Run # 1	W NO		
CEMDAS Evolution TM	TionTM			1 Jo soed

RATA Data Report Created on : Sep 12, 2018 09:45:11 9/12/2018 9:20:00 AM - 9/12/2018 9:20:00 AM STACK 201	VOL FLOW DRY, KSCFM	577 4	550 S) · C - C - C - C - C - C - C - C - C - C).Zec	583.2	583.8	7.400	587.3	589.0	580.4	
oke O	VOL FLOW, V	7 070	630.8	0000	- 600	2.899	657.5	658.9	671.2	662.9	664.8	654.7	Status
Primary Energy Coke East Chicago, IN	Time	00.00.00	09.21.00	00:00:00	09:22:00	09:23:00		09:25:00			09:28:00	Average:	* Invalid Status

			MA 00:01:01 × 10:00:00 × 10:00:00 × 10:00:00	S A A S
(<u>)</u>	VOL FLOW,	VOL FLOW DRY,		
10.00.00	NOON IN	M DON		
10:00:00	6.2.5	585.8		
10.01.00	2.000	390.7		
10:02:00	6/8.8	601.4		
10:03:00	681.6	603.9		
10:04:00	674.3	597.4		
10:05:00	673.1	596.4		
10:06:00	668.7	592.5		
10:07:00	680.5	602.9		
10:08:00	665.8	586		
10:09:00	676.9	599.7		
10:10:00	663.3	587.7		
Average:	673.1	596.8		
* Inval	* Invalid Status			
RATA Verifie	RATA Run # 5	Jak of		
THE THE PERSON NAMED IN				

VOL FLOW DRY, KSCFM	ANR 2	N. 00 0	0.000.0	596.6	601.0	594.9	595.8	604.5	592.7	600.6	598.7	
VOL FLOW, KSCFM	677.3	0.00	8.070	671.8	8.929	6.699	670.9	680.7	667.5	676.4	673.6	Status
Time	11.25.00	11.25.00	00.02.11	11:27:00	11:28:00	11:29:00	11:30:00	11:31:00	11:32:00	11:33:00	Average:	* Invalid Status

Created on : Sep 12, 2018 11:48:32

RATA Data Report

Primary Energy Coke

Time KSCFM VOL FLOW DRY, Time KSCFM KSCFM 12.06:00 675.5 601.2 12.06:00 677.5 601.2 12.09:00 677.8 599.9 12.10:00 670.8 599.9 12.11:00 674.1 599.9 12.11:00 672.4 599.7 Average: 673.2 599.1	VOL FLOW, VOL FLOW DRY, KSCFM KSCFM 675.5 601.2 674.0 599.9 671.5 597.6 672.1 599.9 672.1 599.1 673.2 599.1	VOL FLOW, VOL FLOW DRY, KSCFM	VOL FLOW, VOL FLOW DRY, KSCFM	VOL FLOW, VOL FLOW DRY, KSCFM	VOL FLOW, VOL FLOW DRY, KSCFM 675.5 674.0 674.0 674.0 674.0 674.0 674.0 674.0 674.0 675.8	VOL FLOW, VOL FLOW DRY, KSCFM 675.5 674.0 674.0 674.0 674.0 677.5 677.6 677.8 677.8 677.1 677.8 677.1 677.1 677.1 677.2 677.1 677.2 677.1 677.2 677.1	VOL FLOW, VOL FLOW DRY, KSCFM 675.5 674.0 674.0 674.0 679.9 671.5 699.9 671.5 673.2 670.4 673.2	VOL FLOW, VOL FLOW DRY, KSCFM 675.5 674.0 674.0 674.0 675.5 677.5 677.1 677.4 673.2	VOL FLOW, VOL FLOW DRY, KSGFM KSGFM KSGFM KSGFM KSGFM KSGFM KSGFM KSGFM KSGFM 674.5 599.9 674.5 599.9 675.5 601.2 670.8 597.0 670.8 599.0 670.4 596.7 673.2 599.1	VOL FLOW, WOL FLOW DRY, KSCFM	VOL FLOW, VOL FLOW DRY, KSCFM	WOLFLOW, VOLFLOW DRY, KSCFM KGCFM KSCFM KS	VOL FLOW, VOL FLOW DRY, KSCFM 6755 6740 6740 6740 6740 6740 6744 6755 6708 6704 6704 673.2 599.1 Status	VOL FLOW, VOL FLOW DRY, KSCFM KSCFM KSCFM	VOL FLOW, VOL FLOW DRY, KSCFM	VOL FLOW, VOL FLOW DRY, KSCFM	VOL FLOW, VOL FLOW DRY, KSCFM	VOL FLOW, VOL FLOW DRY. KSCFM	VOL FLOW, VOL FLOW DRY, KSCFM KSCFM KSCFM KSCFM KSCFM KSCFM KSCFM C 6912 6715 6910 6715 6910 6715 6910 6715 6910 6715 6910 6715 6910 6710 6912 6910 6710 6912 6910 6710 6910 6910 6910 6910 6910 6910 6910 69	WOL FLOW, WOL FLOW DRY, KSCFM 675.5 674.0 674.0 674.0 674.0 675.5 664.9 675.5 664.9 677.0 670.8 677.0 670.4 682.0 670.4 599.9 682.0 670.4 599.1 TA Run # 8 iffied By:
KSCFM 675.5 674.0 671.5 664.9 675.5 670.8 674.1 682.0 670.4	KSCFM KSCFM KSCFM KSCFM (KSCFM KSCFM KSCFM KSCFM KSCFM (KSCFM KSCFM KSCFM KSCFM (KSCFM KSCFM KSCFM KSCFM (KSCFM KSCFM KSCFM (KSCFM KSCFM (KSCFM KSCFM KSCFM KSCFM (KSCFM KSCFM KSCFM KSCFM KSCFM (KSCFM KSCFM KSCFM KSCFM KSCFM KSCFM KSCFM KSCFM (KSCFM KSCFM KSC	FSCFM KSCFM 674.0 697.0 697.0 670.4 696.7	FSCFM KSCFM 674.0 699.9 664.9 692.0 607.0 670.4 596.7 699.1 Filed By:	KSCFM 671.5 599.9 684.9 670.4 599.1 599.1 599.1 FA Run #8 FA R	FXSCFM FX	FSCFM KSCFM 664.0 664.0 664.9 664.9 664.9 664.9 664.0 670.0 670.4 699.0 670.4 699.0 670.4 596.7 FA Run # 8 fifted By:	KSCFM 671.5 599.9 684.9 670.4 596.7 670.4 596.7 596.7 Filid Status	FSCFM KSCFM 671.5 599.9 684.9 682.0 670.4 596.7 670.4 596.7 596.7 599.1	FSCFM KSCFM 601.2 604.9 604.9 604.9 604.1 609.0 670.4 599.1 682.0 670.4 599.1 699.1 670.4 599.1 670.4 599.1 670.4 599.1 670.4 599.1 670.4 599.1 670.4 599.1	FXSCFM KSCFM 671.5 599.9 671.5 599.0 670.4 596.7 670.4 596.7 599.1	FXSFM KSCFM	FXSCFM KSCFM 671.5 599.9 671.5 599.9 682.0 670.4 596.7 599.1	FXSCFM FSCFM	FXSFM FSCFM	FXSFM KSCFM	FXSFM KSCFM 671.5 599.9 664.9 670.8 670.4 599.1 670.4 596.7 599.1	FXSCFM KSCFM KSCFM FXSCFM FXSC	FXSCFM KSCFM KSCFM FXSCFM FXSC	FXSFM KSCFM KSCFM KSCFM FXSFM	FXSCFM KSCFM KSCFM FXSCFM FXSC
675.5 674.0 671.5 664.9 675.5 670.8 674.1 682.0 670.4 e70.4	675.5 601.2 674.0 599.9 671.5 597.6 664.9 601.2 675.5 601.2 670.8 597.0 674.1 599.9 682.0 607.0 670.4 596.7 Falid Status	675.5 601.2 674.0 599.9 671.5 599.9 674.0 597.6 664.9 601.2 670.8 597.0 670.4 599.9 682.0 607.0 670.4 596.7 FIA Run # 8	675.5 601.2 674.0 599.9 671.5 599.9 674.0 597.6 664.9 601.2 670.8 591.8 670.8 599.9 682.0 607.0 670.4 596.7 Filed Status	675.5 601.2 674.0 599.9 671.5 599.9 674.9 601.2 675.5 601.2 670.8 597.0 674.1 599.9 682.0 607.0 670.4 596.7 FA Run # 8	675.5 601.2 674.0 599.9 671.5 599.9 671.5 597.6 664.9 601.2 670.8 599.9 670.4 599.9 682.0 607.0 670.4 596.7 FA Run #8	675.5 601.2 674.0 599.9 671.5 599.9 671.5 597.6 664.9 601.2 670.8 591.8 670.2 599.9 682.0 607.0 670.4 599.9 670.4 599.1 TA Run # 8	675.5 601.2 674.0 599.9 671.5 599.9 674.1 599.9 675.5 601.2 670.8 597.0 674.1 599.9 682.0 607.0 670.4 596.7 FA Run # 8	675.5 601.2 674.0 599.9 671.5 599.9 674.0 597.6 664.9 601.2 670.8 591.8 670.8 599.9 682.0 607.0 670.4 596.7 Filed Status	675.5 601.2 674.0 599.9 671.5 599.9 664.9 664.9 601.2 670.8 597.0 674.1 599.9 682.0 607.0 670.4 599.9 682.0 607.0 670.4 599.7 TA Run # 8	675.5 601.2 674.0 599.9 671.5 599.9 664.9 664.9 691.8 601.2 670.8 670.4 699.9 682.0 670.4 599.7 682.0 670.4 599.7 Filed By:	675.5 601.2 674.0 599.9 674.0 599.9 674.5 664.9 664.9 664.9 675.5 670.8 677.0 677.0 677.0 677.0 677.0 677.0 677.4 596.7 74 596.7 74 596.7 74 596.7 74 596.7 74 759.1 74 Run # 8	675.5 601.2 674.0 599.9 674.0 599.9 674.5 664.9 664.9 601.2 675.5 670.8 670.2 670.4 699.9 607.0 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4	675.5 601.2 674.0 599.9 671.5 664.9 664.9 664.9 670.2 670.8 670.4 699.9 670.4 699.9 670.4 699.9 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 670.4 596.7 670.4	675.5 601.2 674.0 599.9 671.5 599.9 671.5 597.6 664.9 675.5 601.2 670.8 670.4 599.9 682.0 670.4 596.7 670.4 596.7 599.1 filed By:	675.5 601.2 674.0 599.9 671.5 599.9 671.5 697.6 664.9 675.5 601.2 670.8 670.4 599.9 682.0 677.0 670.4 599.7 Filed By:	675.5 601.2 674.0 599.9 671.5 664.9 597.6 664.9 670.8 670.2 670.4 699.9 607.0 670.4 596.7 6970.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4	675.5 601.2 674.0 599.9 671.5 599.9 671.5 597.6 664.9 601.2 670.8 670.8 692.0 607.0 670.4 599.1 Filed By:	675.5 601.2 674.0 599.9 671.5 697.6 664.9 697.6 697.6 670.8 670.4 599.9 682.0 677.0 670.4 599.1 Filed By:	675.5 601.2 674.0 599.9 671.5 697.6 664.9 697.6 697.0 670.8 692.0 677.1 599.9 682.0 607.0 670.4 599.1 Filed By:	675.5 601.2 674.0 599.9 671.5 664.9 664.9 664.9 670.2 670.8 670.4 699.9 670.4 699.9 670.4 697.0 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 670.4 596.7 670.4 670.4 596.7 670.4 670.4 596.7 670.4
674.0 671.5 664.9 675.5 670.8 674.1 682.0 670.4 673.2	674.0 599.9 671.5 697.6 664.9 664.9 601.2 670.8 601.2 670.4 599.9 682.0 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4	674.0 599.9 671.5 697.6 664.9 654.9 601.2 670.8 697.0 670.1 699.9 682.0 607.0 670.4 599.7 697.0 670.4 599.1 Filed Status	674.0 599.9 671.5 697.6 664.9 654.9 601.2 670.8 697.0 674.1 699.9 682.0 607.0 670.4 599.9 682.0 607.0 670.4 599.7 74 599.7 74 599.7 74 759.7 74 759.7 74 759.7 759	674.0 599.9 671.5 697.6 664.9 604.2 697.8 601.2 670.8 697.0 670.4 599.9 682.0 670.4 596.7 670.4 596.7 Falid Status TA Run # 8 Falid By:	674.0 599.9 671.5 697.6 664.9 664.9 601.2 670.8 697.0 674.1 699.9 682.0 607.0 670.4 599.1 74 Run #8	674.0 599.9 671.5 657.6 664.9 657.6 664.9 601.2 670.8 601.2 670.4 599.9 682.0 670.4 596.7 670.4 599.1 FA Run # 8	674.0 599.9 671.5 697.6 664.9 654.9 601.2 670.8 670.4 699.9 682.0 677.0 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 670.4 596.7 670.4	674.0 599.9 671.5 697.6 664.9 654.9 601.2 670.8 697.0 670.1 699.9 682.0 607.0 670.4 599.9 682.0 607.0 670.4 599.1 Falid Status	674.0 599.9 671.5 654.9 664.9 664.9 670.8 697.0 670.4 596.7 697.0 670.4 599.9 682.0 670.4 596.7 670.4 599.1 FA Run # 8	674.0 599.9 671.5 657.6 664.9 670.8 657.8 601.2 670.8 670.8 697.0 670.4 599.9 682.0 670.4 596.7 670.4 596.7 599.1 FA Run # 8	674.0 599.9 671.5 657.6 664.9 664.9 601.2 670.8 697.0 670.4 599.9 682.0 670.4 596.7 670.4 596.7 599.1 FA Run #8	674.0 599.9 671.5 657.6 664.9 670.8 670.8 697.0 670.4 599.9 682.0 670.4 596.7 670.4 596.7 FA Run # 8	674.0 599.9 671.5 657.6 664.9 670.8 670.8 697.0 670.4 599.9 682.0 670.4 596.7 670.4 596.7 Filed By:	674.0 599.9 671.5 657.6 664.9 654.9 601.2 670.8 670.4 699.9 682.0 677.0 670.4 599.1 7A Run # 8	674.0 599.9 671.5 654.9 664.9 664.9 670.8 697.0 670.4 596.7 697.0 670.4 599.1 FA Run # 8 filed By:	674.0 599.9 671.5 664.9 664.9 664.9 664.9 691.8 601.2 670.8 670.4 699.9 682.0 670.4 599.1 filed By:	674.0 599.9 671.5 654.9 654.9 655.5 664.9 601.2 670.8 692.0 674.1 699.9 682.0 670.4 596.7 596.7 599.1 filed By:	674.0 599.9 671.5 654.9 654.9 655.5 664.9 601.2 670.8 597.0 670.4 599.9 682.0 670.4 596.7 590.1 Filed By:	674.0 599.9 671.5 664.9 672.6 664.9 670.8 697.0 670.4 596.7 697.0 670.4 599.1 Filed By:	674.0 599.9 671.5 664.9 664.9 664.9 670.8 697.0 670.4 599.9 682.0 670.4 596.7 670.4 599.1 FA Run # 8
671.5 664.9 675.5 670.8 674.1 682.0 670.4 670.4	664.9 651.8 664.9 664.9 664.9 664.9 664.9 601.2 670.8 601.2 670.4 699.9 682.0 670.4 596.7 670.4 596.7 670.4 596.7 Falid Status	671.5 597.6 664.9 664.9 651.8 664.9 601.2 670.8 599.9 682.0 607.0 670.4 599.1 e1id Status TA Run # 8 filed By:	671.5 597.6 664.9 664.9 691.8 601.2 670.8 597.0 670.4 599.9 682.0 607.0 670.4 599.1 filed By:	664.9 651.6 664.9 664.9 664.9 664.9 601.2 670.8 601.2 670.4 699.9 682.0 670.4 596.7 e1id Status TA Run # 8 filed By:	671.5 597.6 664.9 664.9 691.8 601.2 670.8 597.0 670.4 599.9 682.0 670.4 596.7 falid Status TA Run # 8 filed By:	664.9 651.6 664.9 664.9 664.9 664.9 664.9 601.2 670.8 601.2 670.4 599.9 682.0 670.4 596.7 670.4 596.7 670.4 596.7 FA Run # 8 fified By:	664.9 651.6 664.9 664.9 664.9 664.9 664.9 601.2 670.8 601.2 670.4 599.9 682.0 670.4 596.7 670.4 596.7 Falid Status	671.5 597.6 664.9 664.9 601.2 655.5 601.2 670.8 597.0 670.4 599.9 682.0 677.0 670.4 599.1 filed By:	671.5 597.6 664.9 664.9 664.9 601.2 670.8 670.4 599.9 682.0 670.4 596.7 670.4 599.1 FA Run # 8 filed By:	664.9 671.6 684.8 664.9 664.9 664.9 675.5 601.2 670.8 670.4 699.9 682.0 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 596.7 670.4 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0 670.4 670.0	664.9 671.5 597.6 664.9 664.9 601.2 670.8 601.2 670.8 692.0 670.0 670.4 596.7 670.4 596.7 FA Run # 8 filed By:	664.9 671.5 597.6 664.9 664.9 601.2 670.8 670.8 697.0 674.1 692.0 670.4 596.7 670.4 596.7 FA Run # 8 filed By:	664.9 671.6 684.9 684.8 664.9 675.5 601.2 670.8 670.4 699.9 682.0 670.4 599.1 673.2 599.1 FA Run # 8	664.9 697.6 664.9 601.2 670.8 601.2 670.8 697.0 670.4 599.9 682.0 670.4 596.7 Filled By:	664.9 671.5 597.6 664.9 604.2 670.8 670.8 670.4 699.9 682.0 670.4 596.7 670.4 599.1 670.4 599.1 670.4 599.1 670.4 599.1	664.9 671.6 684.9 684.8 601.2 670.8 670.8 670.4 699.9 682.0 670.4 599.1 670.4 599.1 FA Run # 8 fified By:	664.9 671.5 597.6 664.9 604.2 670.8 670.8 670.4 599.9 682.0 670.4 596.7 670.4 599.1 Filed By:	664.9 671.6 664.9 664.9 664.9 664.9 675.5 601.2 670.8 670.4 699.9 682.0 670.4 596.7 670.4 599.1 670.4 599.1 670.4 599.1	664.9 671.6 684.8 664.9 664.9 670.2 670.8 670.4 699.9 682.0 670.4 596.7 670.4 599.1 673.2 599.1 673.2 599.1	664.9 671.6 684.8 664.9 664.9 670.2 670.8 670.4 699.9 682.0 670.4 596.7 670.4 599.1 673.2 599.1 673.2 599.1
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CEMDAS EvolutionTM

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CEMDAS EvolutionTM

CEMDAS EvolutionTM



Sample Location Information for Volumetric Flow Determination - Round Ducts

Project #: 305091

Company: Primary Energy

Plant: Cokenergy Facility

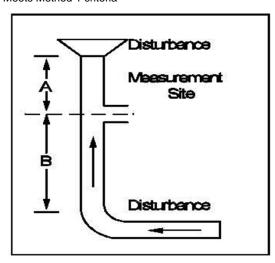
Unit ID: HRCC

Sample Location: Stack 201

Distance A: 73.80 Feet, 4.10 Duct diameters
Distance B: 201.00 Feet, 11.17 Duct diameters

Duct Diameter: 18.00 feet # of Ports Used: 4 # of Points/Diameter: 8 Total # of points 16 Sample Plane: Horizontal Port Type: Nipple Port Length: 7.0 inches Port Inside Diameter: 6.0 inches

Meets Method 1 criteria



Traverse Point Locations

	% of		Inches from port
Point	diameter	Inches from wall	edge
1	3.2	6.9	13.9
2	10.5	22.7	29.7
3	19.4	41.9	48.9
4	32.3	69.8	76.8

Pre-cyclonic flow check conducted?

No

Reason: Conducted Previously



Part 60 RATA Initial Stratification Check and Test Point Selection

Project Number: 305091 Test Date: 9/12/2018
Customer: Primary Energy Duct Shape: Round

Unit Identification: HRCC Diameter: 18 feet

Sample Location: Stack 201

Port Length: 6.75 inches

Is the sample location downstream of a wet scrubber, or downstream of a point where

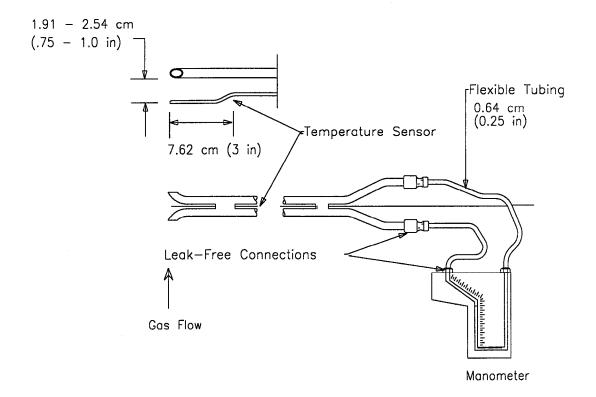
two ducts converge? N

Sampling line/strategy selected: Short Line (0.4, 1.2, 2.0 meters)



Determination of Stack Gas Velocity and Volumetric Flow Rate

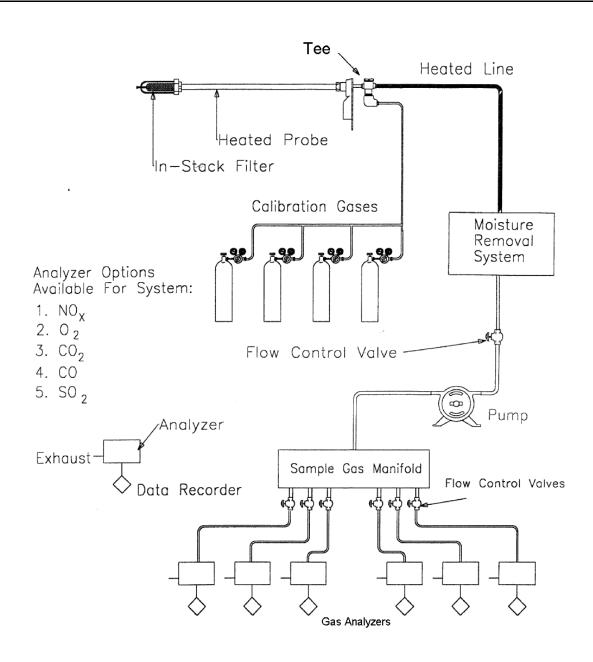
USEPA Promulgated Test Method 2





Determination of Multiple Gaseous Pollutants Using an Extractive Sampling Train

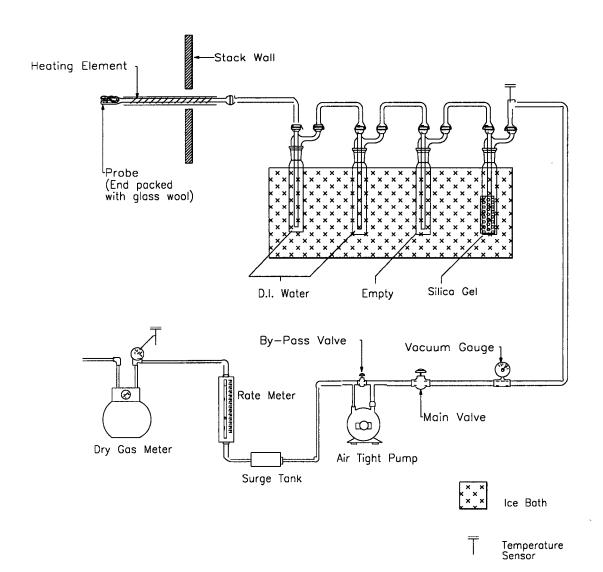
USEPA Promulgated Methods 3A, 6C and 10





Determination of Moisture Content in Stack Gases

USEPA Promulgated Method 4





Example Calculations - Method 2 Volumetric Flow

Company: Primary Energy
Unit ID: HRCC

Project Number: 305091
Test Date: Septem

Run #:

September 12, 2018

Plant: Sample Location: Cokenergy Facility
Stack 201

Operating Level: High

Note: In order to duplicate these examples, results must not be rounded.

Effluent Gas Pressure

$$P_s = P_{bar} + (P_0/13.6)$$

Where:

P_s = Flue gas pressure ("Hg)

P_{bar} = Ambient barometric pressure at sample elevation ("Hg)

 P_q = Flue gas gauge pressure (" H_2O)

$$P_{bar} = \underline{29.26}$$
 "Hg

$$P_g = _{\underline{\hspace{1cm}}} -1 _{\underline{\hspace{1cm}}} "H_2O$$

Average Stack Temperature

$$T_{s} = \sum_{i=1}^{n} T_{si}$$

$$n$$

Where:

T_s = Average effluent gas temperature (°F)

T_{si} = Effluent gas temperature at point i (°F)

n = Total number of traverse points

$$T_s = 287$$
 °F

Actual Meter Volume

$$V_m = Vf - Vi$$

Where:

V_i = Initial meter sample volume (cubic feet)

V_f = Final meter sample volume (cubic feet)

V_m = Sample volume collected at actual conditions (ft³, dry basis)



Example Calculations - Method 2 Volumetric Flow

Company: Primary Energy Unit ID: HRCC Plant:

Test Date:

Project Number: 305091 September 12, 2018

Cokenergy Facility

Run #:

Sample Location: Stack 201

Operating Level: High

Note: In order to duplicate these examples, results must not be rounded.

Standard Meter Volume

$$V_{m(std)} = T_{std}/29.92 \text{ x Y x V}_{m} \text{ x } (P_{bar} + \Delta H /13.6)/(T_{m} + 460)$$

Where:

 $V_{m(std)}$ = Sample volume collected corrected to 29.92"Hg and T_{std} (scf, dry basis)

Y = Dry test meter calibration coefficient (dimensionless)

V_m = Sample volume collected at actual conditions (ft³, dry basis)

T_m = Average dry test meter temperature (°F)

ΔH= Pressure drop across calibrated orifice ("H2O)

T_{std} = Standard Temperature (°R)

$$V_{\rm m} = 22.456$$
 cf

$$P_{bar} = ______ 29.26 _____ "Hg$$

$$\Delta H = 2.00 \, \text{"} \text{H}_2 \text{O}$$

$$T_m = 70.9$$
 °F

$$T_{std} =$$
 528 °R

Volume of Water Vapor Condensed

$$V_{w(std)} = [(0.04707 \text{ x net mI H}_2\text{O}) + (0.04715 \text{ x net grams H}_2\text{O})] \text{ x } (T_{std} / 528)$$

Where:

V_{w(std)} = Sample volume collected corrected to 29.92 in. Hg and 528(°R) (ft³, dry basis)

net grams H₂O = Final moisture weight - initial moisture weight

net grams
$$H_2O = 3182.6$$

$$V_{w(std)} = 3.503$$
 cf

Moisture Content From Method 4 or Alt-008

$$\mathsf{B}_{\mathsf{ws}} = \frac{\mathsf{V}_{\mathsf{w(std)}}}{\mathsf{V}_{\mathsf{w(std)}} \, + \, \mathsf{V}_{\mathsf{m(std)}} =}$$

Where:

B_{ws} = Fractional moisture content (dimensionless)

$$V_{w(std)} = 3.503$$
 cf

$$V_{m(std)} = 21.885$$
 dscf

$$B_{ws} = 0.138$$



Plant:

Example Calculations - Method 2 Volumetric Flow

Company: Primary Energy Project Number: Unit ID: HRCC

Cokenergy Facility

Test Date:

305091 September 12, 2018

Run #:

Operating Level: High

Sample Location:

Stack 201

Note: In order to duplicate these examples, results must not be rounded.

Dry Molecular Weight

$$M_d = 0.44 \times (\%CO_2) + 0.32 \times (\%O_2) + 0.28 \times (\%N_2)$$

Where:

M_d = Effluent gas molecular weight (lb/lb-mole, dry basis)

%CO₂ = Effluent gas Carbon Dioxide Content (% volume, dry basis)

%O₂ = Effluent gas Oxygen Content (% volume, dry basis)

%N₂ = Effluent Balance Gas Content (% volume, dry basis)

0.32 = Molecular weight of O2 divided by 100

0.44 = Molecular weight of CO2 divided by 100

0.28 = Molecular weight of Nitrogen divided by 100

$$%CO_2 = 5.2$$

$$%O_2 = 12.6$$

$$%N_2 = 82.2$$

From Method 3A, Instrumental

Wet Molecular Weight

$$M_s = Md x (1-Bws) + (18.0 x Bws)$$

Where:

M_s = Effluent gas molecular weight (lb/lb-mole, wet basis)

B_{ws} = Effluent gas fractional moisture content (dimensionless)

$$M_d = \underline{\hspace{1cm} 29.34} \hspace{1cm} \text{lb/lb-mole}$$

$$B_{ws} = 0.138$$

From Method 4

Average Square Root of Velocity Head - applicable to Method 2 only

avg
$$\sqrt{\Delta}$$
P $\sum_{i=1}^{\infty} \sqrt{\Delta}$ Pi

Where:

 $\sqrt{\Delta Pi}$ = square root of ΔP at traverse point i

 $avg\sqrt{\Delta P}$ = Average of the square roots of ΔP 's at all traverse points

 $avg\sqrt{\Delta P} = \underline{1.0275}$



Example Calculations - Method 2 Volumetric Flow

Company: Primary Energy
Unit ID: HRCC
Plant: Cokenergy Facility

Test Date: Run #:

Sample Location: Stack 201

Project Number: 305091

September 12, 2018

Run #: 1
Operating Level: High

Note: In order to duplicate these examples, results must not be rounded.

Average Duct Velocity - applicable to Method 2 only

$$V_s = 85.49 \text{ x Cp x } avg\sqrt{\Delta P} \text{ x } ((Ts + 460)/ (Ps x Ms))^{1/2}$$

Where:

V_s = Average velocity of effluent gas (ft/sec)

C_p = Pitot calibration coefficient (dimensionless)

 $avg\sqrt{\Delta P}$ = Average of the square roots of ΔP 's at all traverse points

T_s = Average effluent gas temperature (°F)

$$C_p = 0.840$$
 $P_s = 29.19$ "Hg
avg $\sqrt{\Delta}P = 1.0275$

$$T_s = 287$$
 °F $M_s = 27.77$ Ib/Ib-mole

Volumetric Flow Rate (Actual Basis)

Applicable when Method 2 is used alone:

Qacfm =
$$V_s \times A \times 60 \text{ sec/min}$$

Where:

Q = Effluent gas volumetric flow rate at actual conditions (acfm)

A = Cross-sectional area of the stack/duct at the test location (ft²)

$$V_s = \underline{70.81}$$
 ft/sec A =

$$A = 254.469$$
 ft²



Plant:

Sample Location:

Example Calculations - Method 2 Volumetric Flow

Company: Primary Energy
Unit ID: HRCC

Cokenergy Facility

Stack 201

Project Number: 305091

Test Date: September 12, 2018

Run #: 1

Operating Level: High

Note: In order to duplicate these examples, results must not be rounded.

Volumetric Flow Rate (Standard Wet Basis)

Standard cubic feet per minute (Wet):

$$Q_{std} = Q \times (T_{std}/29.92) \times (P_s/(T_s + 460))$$

Where:

Q_{std} = Effluent gas volumetric flow rate corrected to 29.92"Hg and 528°R (scfm)

$$Q = 1,081,203$$
 scfm

$$P_s = 29.19$$
 "Hg

$$T_{std} = ___ 528$$
 °R

Standard cubic feet per hour (Wet):

$$Q_{sw} = Q_{std} \times 60 \text{ min/hr}$$

Volumetric Flow Rate (Standard Dry Basis)

Standard cubic feet per minute (Dry):

$$Q_{dscfm} = Q_{std} x (1-B_{ws})$$

$$B_{ws} = 0.138$$
 dimensionless

$$Q_{dscfm} = 642,941$$
 dscfm

Standard cubic feet per hour (Dry):

$$Q_{sd} = Q_{dscfm} x 60 min/hr$$

$$Q_{sd} = 38,576,474$$
 dscfh



Example Calculations - Effluent Gas Concentration Determination

Project Number:305091Test Date:September 12, 2018Customer:Primary EnergyFacility:Cokenergy FacilityUnit Identification:HRCCRun #:1Sample Location:Stack 201

$$C_{gas} = (C - C_0) \times \frac{C_{ma}}{C_m - C_0}$$

Where:

C_{gas} = Effluent gas concentration (ppm or %vol)

C = Average gas concentration indicated by analyzer (ppm or %vol)

C₀ = Average of pre- and post-test system bias checks using low range gas (ppm or % vol)

C_m = Average of pre- and post-test system bias checks using upscale gas (ppm or % vol)

C_{ma} = Actual concentration of upscale gas (ppm or % vol)

 C_{02} = 12.6 %v Note: Interim results are not rounded.



Example Calculations - Pollutant Emission Rate, Volumetric Flow Rate-Based

Project Number:305091Test Date:September 12, 2018Customer:Primary EnergyFacility:Cokenergy FacilityUnit Identification:HRCCRun #:1

 $ER = Cgas \times C_f \times Flow \times 60$

Where:

ER = Pollutant emission rate (lb/hr)

 C_{gas} = Pollutant concentration (ppm, wet or dry basis, but the same as flow)

MW = Pollutant molecular weight (gr/gr-mole)

Flow = Volumetric flow rate (cubic feet per minute wet or dry, but the same as C_{qas})

 C_f = Conversion factor (ppm to lb/scf)

1.660E-07 = Conversion constant for SO2. From Table 19-1 of Method 19, 40CFR, Appendix A

For SO2 ER = $C_{gas} \times 1.660E-07 \times Flow \times 60$

 $C_{gas} = 155.5$ ppmvd

Flow = 642,941 DSCFM

ER_{SO2} = 995.53 lb/hr

Note: Interim results are not rounded.



Example Calculations - Relative Accuracy (RA) and Bias

Project Number: 305091 Test Date: September 12, 2018
Customer: Primary Energy Facility: Cokenergy Facility

Unit Identification: HRCC

Mean Difference:

$$\overline{d} = \frac{1}{n} \sum_{i=1}^{n} di$$

Where:

di = Difference between RM and CEMS values for

n = Number of runs used to calculate RA

Standard Deviation:

$$Sd = \left[\frac{\sum_{i=1}^{n} d_i^2 - \frac{\left[\sum_{i=1}^{n} d_i\right]^2}{n}}{n-1} \right]^{1/2}$$

Confidence Coefficient:

$$CC = t_{0.025} \frac{Sd}{\sqrt{n}}$$

Where:

T values as presented in 40CFR60 or 40CFR75. For 40CFR60, use $t_{0.975}$, which are the same T values.

Relative Accuracy based on RM:

$$RA = \frac{\left| \overline{d} \right| + \left| CC \right|}{RM \text{ avg}} \times 100$$

Where:

RM avg = Average RM value for runs used to calculate RA

Relative Accuracy based on Applicable Standard - for Part 60 Applications Only:

$$RA = \frac{\left| \overline{d} \right| + \left| CC \right|}{App \ Std} \times 100$$



Example Calculations - Moisture (Method 4)

Company: Primary Energy
Plant: Cokenergy Facility

Unit ID: HRCC
Sample Location: Stack 201

Project Number: 305091

Test Date: September 12, 2018
Run #: 1

Operating Level: High

Effluent Gas Pressure

$$P_s = P_{bar} + (P_q / 13.6)$$

Where:

P_s = Flue gas pressure ("Hg)

P_{bar} = Ambient barometric pressure at sample elevation ("Hg)

 P_a = Flue gas gauge pressure (" H_2O)

$$P_{bar} = 29.26$$
 "Hg

$$P_g = -1.00$$
 " H_2O

Actual Meter Volume

$$V_m = Vf - Vi$$

Where:

V_i = Initial meter sample volume (Cubic Feet or Liters)

V_f = Final meter sample volume (Cubic Feet or Liters)

V_m = Sample volume collected at actual conditions (dcf)

$$V_i = 279.000$$
 cf

Sample Volume at Standard Conditions

$$V_{m(std)} = (T_{std}/29.92) \times Y \times V_m \times (P_{bar} + P_m/13.6)/(T_m + 460)$$

Where:

 $V_{m(std)}$ = Sample volume collected corrected to 29.92 "Hg and 528 °R (dscf)

Y = Dry test meter calibration coefficient (dimensionless)

T_m = Average dry test meter temperature (°F)

P_m = Average dry test meter pressure ("H₂O)

T_{std} = Standard temperature 528 °R

$$V_m = \underline{22.456}$$
 dcf

$$P_{bar} = 29.26$$
 "Hg

$$P_{m} = 2.00$$
 " $H_{2}O$

$$T_m = 70.9$$
 °F

$$Y = 0.997$$

$$T_{std} = 528.0$$
 °R

$$V_{m(std)} = \underline{21.884}$$
 dscf



Example Calculations - Moisture (Method 4)

Company: Primary Energy Project Number: 305091

Plant:Cokenergy FacilityTest Date:September 12, 2018Unit ID:HRCCRun #:1Sample Location:Stack 201Operating Level:High

Volume of Water Vapor Condensed at Standard Conditions

$$V_{wc(std)} = 0.04715 \text{ x } (T_{std}/528) \text{ x } M_{H2O}$$

Where:

 $V_{wc(std)}$ = Volume of water vapor collected corrected to 29.92 "Hg and 528 °R (scf)

 M_{H2O} = Net weight gain of impingers (grams)

 $M_{H2O} =$ **74.3** grams

V_{wc(std)} = _____ 3.503 scf

Moisture Content

$$B_{ws} = \frac{V_{wc(std)}}{V_{wc(std)} + V_{m(std)}}$$

Where:

B_{ws} = Fractional moisture content (dimensionless)

 $V_{wc(std)} = 3.503$ sc

 $V_{m(std)} = 21.884$ dscf

 $B_{ws} = ____ 0.138$

Dry Molecular Weight

$$M_d = 0.44 \times (\%CO_2) + 0.32 \times (\%O_2) + 0.28 \times (\%N_2)$$

Where:

M_d = Effluent gas molecular weight (lb/lb-mole, dry basis)

%CO₂ = Effluent gas Carbon Dioxide Content (% volume, dry basis)

%O₂ = Effluent gas Oxygen Content (% volume, dry basis)

%N₂ = Effluent gas Nitrogen Content (% volume, dry basis)

0.32 = Molecular weight of O_2 , divided by 100

0.44 = Molecular weight of CO_2 , divided by 100

0.28 = Molecular weight of N₂, divided by 100

 $%CO_2 = \underline{\qquad \qquad 5.2}$

 $%O_2 = 12.6$

 $%N_2 = 82.2$

 $M_d = _____ lb/lb-mole$

Wet Molecular Weight

$$M_s = M_d x (1 - B_{ws}) + (18.0 x B_{ws})$$

Where:

M_s = Effluent gas molecular weight (lb/lb-mole, wet basis)

 $M_d = 29.34$ lb/lb-mole

 $B_{ws} = 0.138$

 $M_s = 27.77$ lb/lb-mole



Instrumental Reference Method Field Data

Project Number:	305091	Start Date:	9/12/2018
Customer:	Primary Energy	End Date:	9/12/2018
Unit Identification:	HRCC	Facility:	Cokenergy Facility
Sample Location:	Stack 201	Recorded by:	Gavin Lewis
Load Level/Condition:	> 50% load	Fc Factor:	-
		Fd Factor:	-

	Test Par	ameter		NO _X	SO ₂	CO	CO ₂	O ₂		Maiatuma
C	alibration Spa	n, CS (Day	1)	-	452.6	-	17.86	22.01	Volumetric Flow Rate	Moisture Fraction
C	alibration Spa	n, CS (Day	2)	-	-	-	-	-	- How Itale	Traction
Run No.	Start Date	First Minute	Last Minute	ı	Run Average	Raw Analyzo	er Response	S	DSCFM	Bws
1	9/12/18	7:15	7:35	-	152.39	-	5.16	12.58	642941	-
2	9/12/18	8:00	8:20	-	148.93	-	5.11	12.70	652324	-
3	9/12/18	8:40	9:00	-	152.98	-	5.06	12.80	631745	-
4	9/12/18	9:20	9:40	-	143.08	-	4.96	12.99	623188	-
5	9/12/18	10:00	10:20	-	137.82	-	4.98	12.98	625367	-
6	9/12/18	10:45	11:05	-	130.89	-	4.94	13.06	633954	-
7	9/12/18	11:25	11:45	-	132.54	-	4.87	13.19	629515	-
8	9/12/18	12:05	12:25	-	133.23	-	4.76	13.38	636072	-
9	9/12/18	12:45	13:05	-	126.67	-	4.70	13.48	632043	-
10	9/12/18	13:25	13:45	-	121.24	-	4.73	13.47	619433	-

Primary Energy Cokenergy Facility HRCC Stack 201

Date / Time

Run 1

- 4.0 /	00= pp	00= 700.7	0= /00	- 4.0 /	00= ppa	00= 700.7	0= 700
9/12/2018 7:15	153.39	5.19	12.55	9/12/2018 8:00	146.48	5.11	12.71
9/12/2018 7:16	153.63	5.16	12.59	9/12/2018 8:01	148.38	5.13	12.68
9/12/2018 7:17	154.13	5.18	12.56	9/12/2018 8:02	147.88	5.13	12.67
9/12/2018 7:18	153.79	5.18	12.56	9/12/2018 8:03	149.52	5.10	12.70
9/12/2018 7:19	155.88	5.15	12.60	9/12/2018 8:04	148.57	5.12	12.68
9/12/2018 7:20	155.38	5.17	12.57	9/12/2018 8:05	148.60	5.10	12.70
9/12/2018 7:21	149.20	5.17	12.56	9/12/2018 8:06	147.16	5.12	12.67
9/12/2018 7:22	150.62	5.15	12.60	9/12/2018 8:07	149.76	5.10	12.70
9/12/2018 7:23	151.50	5.18	12.56	9/12/2018 8:08	148.26	5.12	12.67
9/12/2018 7:24	150.63	5.16	12.58	9/12/2018 8:09	148.04	5.09	12.72
9/12/2018 7:25	153.38	5.15	12.60	9/12/2018 8:10	147.37	5.12	12.67
9/12/2018 7:26	151.51	5.16	12.58	9/12/2018 8:11	147.99	5.08	12.72
9/12/2018 7:27	151.44	5.18	12.56	9/12/2018 8:12	148.38	5.13	12.65
9/12/2018 7:28	151.78	5.15	12.60	9/12/2018 8:13	149.53	5.09	12.71
9/12/2018 7:29	152.94	5.16	12.58	9/12/2018 8:14	150.11	5.10	12.69
9/12/2018 7:30	151.12	5.18	12.56	9/12/2018 8:15	148.65	5.10	12.71
9/12/2018 7:31	152.55	5.15	12.59	9/12/2018 8:16	149.03	5.09	12.72
9/12/2018 7:32	152.24	5.16	12.60	9/12/2018 8:17	150.20	5.10	12.71
9/12/2018 7:33	152.97	5.16	12.58	9/12/2018 8:18	149.89	5.11	12.70
9/12/2018 7:34	151.03	5.16	12.59	9/12/2018 8:19	150.94	5.10	12.71
9/12/2018 7:35	151.00	5.15	12.59	9/12/2018 8:20	152.77	5.09	12.72
Average	152.39	5.16	12.58	Average	148.93	5.11	12.70
· ·				J			
Run 3				Run 4			
Date / Time	SO2 ppmvd		O2 %dry	Date / Time	SO2 ppmvd		O2 %dry
9/12/2018 8:40	149.49	5.08	12.75	9/12/2018 9:20	136.04	4.90	13.09
9/12/2018 8:41	151.45	5.06	12.79	9/12/2018 9:21	135.92	4.91	13.08
9/12/2018 8:42	149.95	5.08	12.75	9/12/2018 9:22	134.26	4.91	13.08
9/12/2018 8:43	151.99	5.05	12.79	9/12/2018 9:23	137.31	4.91	13.09
9/12/2018 8:44	151.41	5.09	12.75	9/12/2018 9:24	137.41	4.91	13.09
9/12/2018 8:45	152.70	5.06	12.79	9/12/2018 9:25	138.78	4.94	13.03
9/12/2018 8:46	154.51	5.06	12.79	9/12/2018 9:26	142.21	4.96	12.99
9/12/2018 8:47	153.76	5.08	12.77	9/12/2018 9:27	144.28	4.98	12.98
9/12/2018 8:48	153.97	5.07	12.79	9/12/2018 9:28	145.34	4.99	12.94
9/12/2018 8:49	156.88	5.06	12.80	9/12/2018 9:29	146.28	4.97	12.97
9/12/2018 8:50	154.38	5.08	12.78	9/12/2018 9:30	148.57	4.97	12.95
9/12/2018 8:51	153.46	5.04	12.83	9/12/2018 9:31	146.49	4.97	12.96
9/12/2018 8:52	152.20	5.07	12.79	9/12/2018 9:32	146.75	4.97	12.97
9/12/2018 8:53	151.19	5.06	12.81	9/12/2018 9:33	146.00	4.98	12.95
9/12/2018 8:54	153.90	5.05	12.81	9/12/2018 9:34	146.86	4.98	12.96
9/12/2018 8:55	152.99	5.06	12.79	9/12/2018 9:35	146.71	4.99	12.94
9/12/2018 8:56	155.48	5.04	12.83	9/12/2018 9:36	144.99	4.98	12.96
9/12/2018 8:57	153.33	5.06	12.79	9/12/2018 9:37	145.17	5.00	12.93
9/12/2018 8:58	153.66	5.04	12.87	9/12/2018 9:38	143.97	4.98	12.96
9/12/2018 8:59	153.58	5.03	12.87	9/12/2018 9:39	146.38	4.98	12.95
9/12/2018 9:00	152.39	5.04	12.83	9/12/2018 9:40	144.94	4.99	12.94
9/12/2018 9:00 Average	152.39 152.98	5.04 5.06	12.83 12.80	9/12/2018 9:40 Average	144.94 143.08	4.99 4.96	12.94 12.99

Run 2

Date / Time

SO2 ppmvd CO2 %dry

O2 %dry

SO2 ppmvd CO2 %dry O2 %dry

Primary Energy Cokenergy Facility HRCC Stack 201

Run 5

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry	Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 10:00	136.10	5.00	12.94	9/12/2018 10:45	130.06	4.94	13.06
9/12/2018 10:01	136.51	5.00	12.95	9/12/2018 10:46	132.01	4.96	13.03
9/12/2018 10:02	137.08	4.99	12.96	9/12/2018 10:47	129.32	4.96	13.03
9/12/2018 10:03	137.12	4.98	12.97	9/12/2018 10:48	132.09	4.94	13.06
9/12/2018 10:04	136.65	5.00	12.95	9/12/2018 10:49	129.68	4.95	13.04
9/12/2018 10:05	137.52	4.98	12.98	9/12/2018 10:50	131.17	4.93	13.06
9/12/2018 10:06	139.17	4.98	12.97	9/12/2018 10:51	131.86	4.94	13.05
9/12/2018 10:07	138.78	4.98	12.97	9/12/2018 10:52	131.84	4.94	13.06
9/12/2018 10:08	139.75	4.98	12.98	9/12/2018 10:54	131.26	4.95	13.03
9/12/2018 10:09	139.79	4.99	12.96	9/12/2018 10:55	131.13	4.93	13.06
9/12/2018 10:10	139.86	4.97	12.99	9/12/2018 10:56	132.26	4.94	13.06
9/12/2018 10:11	141.38	4.98	12.98	9/12/2018 10:57	131.19	4.94	13.05
9/12/2018 10:12	140.09	4.98	12.99	9/12/2018 10:58	131.11	4.92	13.07
9/12/2018 10:13	137.45	4.95	13.02	9/12/2018 10:59	131.57	4.93	13.06
9/12/2018 10:14	136.04	4.98	12.99	9/12/2018 11:00	130.95	4.94	13.06
9/12/2018 10:15	137.38	4.96	12.99	9/12/2018 11:01	129.33	4.94	13.05
9/12/2018 10:16	136.46	4.96	13.00	9/12/2018 11:02	130.34	4.93	13.07
9/12/2018 10:17	137.79	4.97	13.00	9/12/2018 11:03	129.51	4.94	13.05
9/12/2018 10:18	138.05	4.97	12.98	9/12/2018 11:04	131.29	4.92	13.09
9/12/2018 10:19	135.44	4.96	13.00	9/12/2018 11:05	130.60	4.93	13.06
9/12/2018 10:20	135.88	4.95	13.02	9/12/2018 11:06	130.07	4.93	13.08
Average	137.82	4.98	12.98	Average	130.89	4.94	13.06
•				•			
Run 7				D 0			
Kuli I				Run 8			
Kuli /				Run 8			
Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry	Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
Date / Time 9/12/2018 11:25	127.25	4.89	13.14	Date / Time 9/12/2018 12:05	133.54	4.78	13.35
Date / Time 9/12/2018 11:25 9/12/2018 11:26	127.25 129.47	4.89 4.88	13.14 13.15	Date / Time 9/12/2018 12:05 9/12/2018 12:06	133.54 133.80	4.78 4.76	13.35 13.38
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27	127.25 129.47 129.91	4.89 4.88 4.89	13.14 13.15 13.14	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07	133.54 133.80 133.48	4.78 4.76 4.78	13.35 13.38 13.35
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28	127.25 129.47 129.91 129.33	4.89 4.88 4.89 4.86	13.14 13.15 13.14 13.18	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08	133.54 133.80 133.48 133.82	4.78 4.76 4.78 4.77	13.35 13.38 13.35 13.36
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27	127.25 129.47 129.91 129.33 132.13	4.89 4.88 4.89 4.86 4.88	13.14 13.15 13.14	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07	133.54 133.80 133.48 133.82 134.38	4.78 4.76 4.78 4.77 4.76	13.35 13.38 13.35 13.36 13.37
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28	127.25 129.47 129.91 129.33	4.89 4.88 4.89 4.86 4.88 4.87	13.14 13.15 13.14 13.18 13.16 13.17	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08	133.54 133.80 133.48 133.82 134.38 135.71	4.78 4.76 4.78 4.77 4.76 4.76	13.35 13.38 13.35 13.36
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:29 9/12/2018 11:30 9/12/2018 11:31	127.25 129.47 129.91 129.33 132.13 130.09 130.45	4.89 4.88 4.89 4.86 4.88 4.87 4.86	13.14 13.15 13.14 13.18 13.16 13.17 13.20	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:10 9/12/2018 12:11	133.54 133.80 133.48 133.82 134.38 135.71 133.09	4.78 4.76 4.78 4.77 4.76 4.76 4.78	13.35 13.38 13.35 13.36 13.37 13.38 13.35
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:29 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17	4.89 4.88 4.89 4.86 4.88 4.87 4.86 4.87	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:29 9/12/2018 11:30 9/12/2018 11:31	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10	4.89 4.88 4.89 4.86 4.88 4.87 4.86 4.87	13.14 13.15 13.14 13.18 13.16 13.17 13.20	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:10 9/12/2018 12:11	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04	4.78 4.76 4.78 4.77 4.76 4.76 4.78	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:29 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28	4.89 4.88 4.89 4.86 4.88 4.87 4.86 4.87 4.87	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.18 13.21	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77 4.76 4.75	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:29 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25	4.89 4.88 4.89 4.86 4.88 4.87 4.86 4.87 4.87 4.85 4.88	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.18 13.21 13.17	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77 4.76 4.75 4.74	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:29 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33 9/12/2018 11:34 9/12/2018 11:35 9/12/2018 11:35	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25 132.43	4.89 4.88 4.89 4.86 4.88 4.87 4.86 4.87 4.87 4.85 4.88	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.18 13.21 13.17 13.16	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13 9/12/2018 12:14 9/12/2018 12:15 9/12/2018 12:15	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76 134.82	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77 4.76 4.75 4.74	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40 13.38
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33 9/12/2018 11:34 9/12/2018 11:35 9/12/2018 11:36 9/12/2018 11:37	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25 132.43 133.48	4.89 4.88 4.89 4.86 4.88 4.87 4.86 4.87 4.87 4.85 4.88	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.18 13.21 13.17 13.16 13.20	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13 9/12/2018 12:14 9/12/2018 12:15	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76 134.82 134.59	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77 4.76 4.75 4.74	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40 13.38 13.39
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:29 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33 9/12/2018 11:34 9/12/2018 11:35 9/12/2018 11:35	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25 132.43 133.48 135.23	4.89 4.88 4.89 4.86 4.87 4.86 4.87 4.85 4.88 4.89 4.86 4.87	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.18 13.21 13.17 13.16 13.20 13.19	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13 9/12/2018 12:14 9/12/2018 12:15 9/12/2018 12:16 9/12/2018 12:17 9/12/2018 12:17	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76 134.82 134.59 135.98	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77 4.76 4.75 4.74 4.76 4.76 4.76	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40 13.38 13.39 13.41
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33 9/12/2018 11:33 9/12/2018 11:35 9/12/2018 11:35 9/12/2018 11:37 9/12/2018 11:37 9/12/2018 11:38 9/12/2018 11:38	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25 132.43 133.48 135.23 133.28	4.89 4.88 4.89 4.86 4.87 4.86 4.87 4.85 4.88 4.89 4.86 4.87 4.86	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.18 13.21 13.17 13.16 13.20 13.19 13.20	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13 9/12/2018 12:14 9/12/2018 12:15 9/12/2018 12:16 9/12/2018 12:17 9/12/2018 12:17 9/12/2018 12:18 9/12/2018 12:18	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76 134.82 134.59 135.98 133.50	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77 4.76 4.75 4.74 4.76 4.74 4.75	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40 13.38 13.39 13.41 13.39
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:29 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33 9/12/2018 11:34 9/12/2018 11:35 9/12/2018 11:35 9/12/2018 11:37 9/12/2018 11:37 9/12/2018 11:38 9/12/2018 11:39 9/12/2018 11:39 9/12/2018 11:40	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25 132.43 133.48 135.23 133.28 133.55	4.89 4.88 4.89 4.86 4.87 4.86 4.87 4.85 4.89 4.86 4.87 4.86 4.87	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.21 13.17 13.16 13.20 13.19 13.20 13.20	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13 9/12/2018 12:14 9/12/2018 12:15 9/12/2018 12:15 9/12/2018 12:17 9/12/2018 12:17 9/12/2018 12:18 9/12/2018 12:19 9/12/2018 12:19	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76 134.82 134.59 135.98 133.50 133.75	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77 4.76 4.75 4.74 4.76 4.76 4.74 4.75 4.75	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40 13.38 13.39 13.41 13.39 13.41
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33 9/12/2018 11:33 9/12/2018 11:35 9/12/2018 11:35 9/12/2018 11:37 9/12/2018 11:37 9/12/2018 11:38 9/12/2018 11:38	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25 132.43 133.48 135.23 133.28	4.89 4.88 4.89 4.86 4.87 4.86 4.87 4.85 4.88 4.89 4.86 4.87 4.86	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.18 13.21 13.17 13.16 13.20 13.19 13.20	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13 9/12/2018 12:14 9/12/2018 12:15 9/12/2018 12:16 9/12/2018 12:17 9/12/2018 12:17 9/12/2018 12:18 9/12/2018 12:18	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76 134.82 134.59 135.98 133.50	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77 4.76 4.75 4.74 4.76 4.74 4.75	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40 13.38 13.39 13.41 13.39
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33 9/12/2018 11:35 9/12/2018 11:35 9/12/2018 11:37 9/12/2018 11:37 9/12/2018 11:38 9/12/2018 11:39 9/12/2018 11:40 9/12/2018 11:41 9/12/2018 11:42	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25 132.43 133.48 135.23 133.28 133.55	4.89 4.88 4.89 4.86 4.87 4.86 4.87 4.85 4.88 4.89 4.86 4.87 4.86 4.84 4.86	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.17 13.16 13.21 13.17 13.16 13.20 13.19 13.20 13.20 13.20 13.20 13.20	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13 9/12/2018 12:14 9/12/2018 12:15 9/12/2018 12:15 9/12/2018 12:17 9/12/2018 12:17 9/12/2018 12:18 9/12/2018 12:19 9/12/2018 12:20 9/12/2018 12:21 9/12/2018 12:21	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76 134.82 134.59 135.98 135.98 133.50 133.75 131.78 130.84	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77 4.76 4.75 4.74 4.76 4.74 4.75 4.75 4.75 4.75	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40 13.39 13.41 13.39 13.40 13.40 13.40
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:29 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33 9/12/2018 11:34 9/12/2018 11:35 9/12/2018 11:35 9/12/2018 11:37 9/12/2018 11:38 9/12/2018 11:38 9/12/2018 11:39 9/12/2018 11:40 9/12/2018 11:40	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25 132.43 133.48 135.23 133.28 133.55 134.86	4.89 4.88 4.89 4.86 4.87 4.86 4.87 4.85 4.88 4.89 4.86 4.87 4.86 4.86 4.84 4.86 4.85	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.18 13.17 13.16 13.20 13.20 13.20 13.20 13.20 13.20	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13 9/12/2018 12:14 9/12/2018 12:15 9/12/2018 12:15 9/12/2018 12:17 9/12/2018 12:17 9/12/2018 12:17 9/12/2018 12:19 9/12/2018 12:20 9/12/2018 12:20	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76 134.82 134.59 135.98 135.98 135.01 137.75 131.78 130.84 130.18	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77 4.76 4.75 4.74 4.76 4.76 4.74 4.75 4.75 4.75	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40 13.38 13.39 13.41 13.39 13.40 13.40
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33 9/12/2018 11:35 9/12/2018 11:35 9/12/2018 11:37 9/12/2018 11:37 9/12/2018 11:38 9/12/2018 11:39 9/12/2018 11:40 9/12/2018 11:41 9/12/2018 11:42	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25 132.43 133.48 135.23 133.28 133.55 134.86 134.68	4.89 4.88 4.89 4.86 4.87 4.86 4.87 4.85 4.88 4.89 4.86 4.87 4.86 4.84 4.86	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.17 13.16 13.21 13.17 13.16 13.20 13.19 13.20 13.20 13.20 13.20 13.20	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13 9/12/2018 12:14 9/12/2018 12:15 9/12/2018 12:15 9/12/2018 12:17 9/12/2018 12:17 9/12/2018 12:18 9/12/2018 12:19 9/12/2018 12:20 9/12/2018 12:21 9/12/2018 12:21	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76 134.82 134.59 135.98 135.98 133.50 133.75 131.78 130.84	4.78 4.76 4.78 4.77 4.76 4.76 4.78 4.77 4.76 4.75 4.74 4.76 4.74 4.75 4.75 4.75 4.75	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40 13.39 13.41 13.39 13.40 13.40 13.40
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33 9/12/2018 11:35 9/12/2018 11:35 9/12/2018 11:36 9/12/2018 11:37 9/12/2018 11:38 9/12/2018 11:39 9/12/2018 11:40 9/12/2018 11:40 9/12/2018 11:41 9/12/2018 11:43 9/12/2018 11:44 9/12/2018 11:44 9/12/2018 11:45	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25 132.43 133.48 135.23 133.28 135.23 134.86 134.68 134.68 136.82 136.92 138.75	4.89 4.88 4.89 4.86 4.87 4.86 4.87 4.85 4.88 4.89 4.86 4.87 4.86 4.84 4.86 4.84 4.86 4.85 4.84	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.18 13.17 13.16 13.20 13.20 13.20 13.20 13.20 13.23 13.20 13.23	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:10 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13 9/12/2018 12:14 9/12/2018 12:15 9/12/2018 12:15 9/12/2018 12:17 9/12/2018 12:17 9/12/2018 12:19 9/12/2018 12:20 9/12/2018 12:20 9/12/2018 12:22 9/12/2018 12:23	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76 134.82 134.59 135.98 135.98 135.98 135.98 135.75 131.78 130.84 130.18 131.22 131.63	4.78 4.76 4.78 4.77 4.76 4.76 4.77 4.76 4.75 4.74 4.76 4.75 4.75 4.75 4.75 4.75 4.75 4.75 4.75	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40 13.41 13.39 13.41 13.40 13.41 13.40 13.41 13.42 13.40 13.40
Date / Time 9/12/2018 11:25 9/12/2018 11:26 9/12/2018 11:27 9/12/2018 11:28 9/12/2018 11:29 9/12/2018 11:30 9/12/2018 11:31 9/12/2018 11:32 9/12/2018 11:33 9/12/2018 11:35 9/12/2018 11:35 9/12/2018 11:36 9/12/2018 11:37 9/12/2018 11:39 9/12/2018 11:39 9/12/2018 11:40 9/12/2018 11:41 9/12/2018 11:42 9/12/2018 11:43 9/12/2018 11:43 9/12/2018 11:43	127.25 129.47 129.91 129.33 132.13 130.09 130.45 132.17 131.10 132.28 132.25 132.43 133.48 135.23 133.28 135.23 134.86 134.68 134.68 136.68	4.89 4.88 4.89 4.86 4.87 4.86 4.87 4.85 4.88 4.89 4.86 4.87 4.86 4.84 4.86 4.84	13.14 13.15 13.14 13.18 13.16 13.17 13.20 13.18 13.18 13.17 13.16 13.20 13.20 13.20 13.20 13.20 13.20 13.20 13.20	Date / Time 9/12/2018 12:05 9/12/2018 12:06 9/12/2018 12:07 9/12/2018 12:08 9/12/2018 12:09 9/12/2018 12:11 9/12/2018 12:12 9/12/2018 12:13 9/12/2018 12:15 9/12/2018 12:15 9/12/2018 12:17 9/12/2018 12:17 9/12/2018 12:18 9/12/2018 12:19 9/12/2018 12:20 9/12/2018 12:20 9/12/2018 12:22 9/12/2018 12:23 9/12/2018 12:23 9/12/2018 12:24	133.54 133.80 133.48 133.82 134.38 135.71 133.09 132.55 133.04 132.43 133.76 134.82 134.59 135.98 135.98 135.98 131.78 130.84 130.18 131.22	4.78 4.76 4.78 4.77 4.76 4.76 4.77 4.76 4.75 4.74 4.76 4.75 4.75 4.75 4.75 4.75 4.75	13.35 13.38 13.35 13.36 13.37 13.38 13.35 13.38 13.38 13.38 13.40 13.39 13.41 13.39 13.41 13.40 13.40 13.41 13.42 13.40

Run 6

Primary Energy Cokenergy Facility HRCC Stack 201

Run 9 Run 10

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry	Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 12:45	129.66	4.72	13.45	9/12/2018 13:25	123.62	4.75	13.44
9/12/2018 12:46	129.84	4.72	13.44	9/12/2018 13:26	119.69	4.74	13.44
9/12/2018 12:47	129.59	4.71	13.47	9/12/2018 13:27	119.95	4.73	13.46
9/12/2018 12:48	128.25	4.72	13.46	9/12/2018 13:28	119.46	4.75	13.44
9/12/2018 12:49	126.63	4.71	13.46	9/12/2018 13:29	119.57	4.74	13.44
9/12/2018 12:50	128.26	4.70	13.48	9/12/2018 13:30	119.65	4.74	13.46
9/12/2018 12:51	127.51	4.71	13.47	9/12/2018 13:31	118.82	4.71	13.48
9/12/2018 12:52	125.83	4.71	13.47	9/12/2018 13:32	118.84	4.74	13.45
9/12/2018 12:53	127.05	4.69	13.49	9/12/2018 13:33	119.74	4.74	13.45
9/12/2018 12:54	126.97	4.70	13.48	9/12/2018 13:34	146.79	4.72	13.47
9/12/2018 12:55	125.73	4.71	13.47	9/12/2018 13:35	131.59	4.74	13.46
9/12/2018 12:56	126.08	4.70	13.49	9/12/2018 13:36	121.58	4.72	13.48
9/12/2018 12:57	126.19	4.70	13.47	9/12/2018 13:37	116.57	4.73	13.48
9/12/2018 12:58	126.13	4.70	13.48	9/12/2018 13:38	119.07	4.72	13.48
9/12/2018 12:59	126.93	4.69	13.50	9/12/2018 13:39	118.30	4.73	13.47
9/12/2018 13:00	126.00	4.69	13.50	9/12/2018 13:40	119.07	4.71	13.50
9/12/2018 13:01	125.54	4.72	13.46	9/12/2018 13:41	118.24	4.73	13.47
9/12/2018 13:02	125.58	4.69	13.50	9/12/2018 13:42	119.04	4.71	13.49
9/12/2018 13:03	124.92	4.71	13.50	9/12/2018 13:43	120.24	4.71	13.49
9/12/2018 13:04	123.62	4.71	13.48	9/12/2018 13:44	118.65	4.71	13.50
9/12/2018 13:05	123.69	4.69	13.50	9/12/2018 13:45	117.49	4.69	13.52
Average	126.67	4.70	13.48	Average	121.24	4.73	13.47



Volumetric Flow Test Run Data Summary

Primary Energy Cokenergy Facility HRCC Stack 201							•			
Operating Level:	High									
Run No.:	1	2	3	4	2	9	7	8	6	10
Start Date:	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18
End Date:	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18
Start Time:	7:15	8:00	8:40	9:20	10:00	10:45	11:25	12:05	12:45	13:25
End Time:	7:25	8:08	8:49	9:28	10:10	10:54	11:33	12:13	12:53	13:33

Average

Test Parameters											
P _{bar} - Barometric pressure, inches Hg	29.26	29.28	29.28	29.28	29.28	29.31	29.28	29.28	29.26	29.26	29.28
P ₉ - Stack Pressure, inches of H2O	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
P _s - Absolute stack pressure, inches Hg	29.19	29.21	29.21	29.21	29.21	29.24	29.21	29.21	29.19	29.19	29.20
T _s - Average stack temperature, °F	287	284	285	285	286	286	287	286	286	287	285.66
% CO ₂ :	5.2	5.1	5.1	5.0	2.0	4.9	4.9	4.8	4.7	4.7	4.94
% O ₂ :	12.6	12.7	12.8	13.0	13.0	13.1	13.2	13.4	13.5	13.5	13.08
% Nitrogen:	82.2	82.2	82.1	82.0	82.0	82.0	81.9	81.8	81.8	81.8	81.98
M _d - dry basis lb/lb mole	29.336	29.324	29.328	29.320	29.320	29.308	29.312	29.304	29.292	29.292	29.31
Stack Diameter, Feet	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	
A - Cross Sectional Area of Stack, Ft ²	254.47	254.47	254.47	254.47	254.47	254.47	254.47	254.47	254.47	254.47	

Average ΔP	1.058	1.099	1.022	0.988	1.001	1.018	1.016	1.021	1.016	0.987	1.02
Average Sqrt ΔP	1.027	1.047	1.010	0.993	1.000	1.008	1.007	1.010	1.007	0.992	1.01
Bws - Moisture content fraction	0.138	0.145	0.140	0.137	0.140	0.135	0.140	0.132	0.136	0.141	0.14
/ls - wet basis lb/lb mole	27.772	27.679	27.738	177.72	27.736	27.779	27.734	27.807	27.755	27.699	27.75
Average Velocity (ft/sec)	70.81	72.15	69.54	68.31	68.89	69.39	69.41	69.50	69.39	68.51	69.29
Actual cubic feet per minute (ACFM)	1,081,203	1,101,540	1,061,759	1,043,032	1,051,895	1,059,431	1,059,765	1,061,131	1,059,436	1,045,987	1,062,518
Standard cubic feet per minute (SCFM)	745,862	763,159	734,858	721,957	727,115	733,077	731,574	733,131	731,643	721,206	734,358
Standard cubic feet per hour (SCFH)	44,751,720	45,789,551	44,091,452	43,317,420	43,626,914	43,984,601	43,894,446	43,987,867	43,898,567	43,272,390	44,061,493
Ory Standard cubic feet per minute (DSCFM)	642,941	652,324	631,745	623,188	625,367	633,954	629,515	636,072	632,043	619,433	632,658
Dry Standard cubic feet per hour (DSCFH)	38,576,474	39,139,427	37,904,696	37,391,290	37,522,033	38.037.244	37,770,914	38,164,345	37,922,596	37,165,989	37,959,501



 $\ensuremath{\text{M}_{\text{s}}}$ - wet basis lb/lb mole

A - Cross Sectional Area of Stack, Ft2

Bws - Moisture content fraction

Stack Diameter, Feet

METHOD 2 VOLUMETRIC FLOW DATA

Project No: 305091 Company: Primary Energy Plant: Cokenergy Facility Unit ID: HRCC Sample Location: Stack 201 Pitot ID: 888A Pitot Coefficient: 0.84 **Test Parameters** P_{bar} - Barometric pressure, inches Hg 29.26 P_a - Stack Pressure, inches of H₂O -1.00 P_s - Absolute stack pressure, inches Hg 29.19 T_s - Average stack temperature, °F 287 Gas Molecular Weight Method: % CO₂: 5.2 Method 3A, Instrumental % O₂: 12.6 % Nitrogen: 82.2

Operating Level: High Run No.: Start Date: 9/12/2018 End Date: 9/12/2018 Start Time: 07:15 **End Time:** 07:25 RM Testers: RN

254.47

29.34

27.77

18.00

0.138

Moisture Determination Method Used: Meter Calibration: 0.997 Initial Meter Volume (cf) 279.000 Final Meter Volume (cf) 301.456 Meter Temperature, deg F: 70.9 Meter Volume Vm(std) (cf): 21.885 Meter Volume Vw(std) (cf): 3.503 Delta H: 2.00 Train Initial Weight, g: 3108.3 Train Final Weight, g: 3182.6 Condensate Initial Vol, mL: 0.0 Condensate Final Vol, mL: 0.0

	ΔΡ		Temp	Velocity		ΔΡ		Temp	Velocity
Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)	Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)
A 01	1.10	1.0488	286	72.25	C 01	1.10	1.0488	287	72.30
A 02	1.10	1.0488	287	72.30	C 02	0.97	0.9849	286	67.85
A 03	1.10	1.0488	287	72.30	C 03	0.97	0.9849	286	67.85
A 04	1.00	1.0000	286	68.89	C 04	0.95	0.9747	286	67.15
B 01	1.00	1.0000	287	68.94	D 01	1.20	1.0954	287	75.52
B 02	0.98	0.9899	287	68.25	D 02	1.20	1.0954	287	75.52
B 03	1.00	1.0000	287	68.94	D 03	1.20	1.0954	287	75.52
B 04	0.95	0.9747	286	67.15	D 04	1.10	1.0488	287	72.30

Method 2 Results	•	Leak Checks:			•	
Average ΔP	1.0575	Pitot:	Pre-Test	Pass		
Average Sqrt ΔP	1.0275		Post-Test	Pass		
Average Velocity (ft/sec)	70.81	Moisture Train:				
No WAF Applied to this Test		Pre-Test:	0.000	CFM @	12.0	in. H
Actual cubic feet per minute (ACFM)	1,081,203	Post-Test:	0.000	CFM @	12.0	in. H
Standard cubic feet per minute (SCFM)	745,862					
Standard cubic feet per hour (SCFH)	44,751,720	Comments	:			
Dry Standard cubic feet per minute (DSCFM)	642,941					
Dry Standard cubic feet per hour (DSCFH)	38,576,474					



 $\ensuremath{\text{M}_{\text{s}}}$ - wet basis lb/lb mole

A - Cross Sectional Area of Stack, Ft2

Bws - Moisture content fraction

Stack Diameter, Feet

METHOD 2 VOLUMETRIC FLOW DATA

Project No: 305091 Company: Primary Energy Plant: Cokenergy Facility Unit ID: **HRCC** Sample Location: Stack 201 Pitot ID: 888A Pitot Coefficient: 0.84 **Test Parameters** P_{bar} - Barometric pressure, inches Hg 29.28 P_g - Stack Pressure, inches of H₂O -1.00 Ps - Absolute stack pressure, inches Hg 29.21 T_s - Average stack temperature, °F 284 Gas Molecular Weight Method: % CO₂: 5.1 Method 3A, Instrumental % O₂: 12.7 % Nitrogen: 82.2

 Operating Level:
 High

 Run No.:
 2

 Start Date:
 9/12/2018

 End Date:
 9/12/2018

 Start Time:
 08:00

 End Time:
 08:08

 RM Testers:
 RN

Moisture Determination Method Used: Meter Calibration: 0.997 Initial Meter Volume (cf) 301.800 Final Meter Volume (cf) 324.310 Meter Temperature, deg F: 75.0 Meter Volume Vm(std): 21.784 Meter Volume Vw(std): 3.701 Delta H: 2.00 3336.7 Train Initial Weight, g: 3415.2 Train Final Weight, g: 0.0 Condensate Initial Vol, mL: 0.0 Condensate Final Vol, mL:

	ΔΡ		Temp	Velocity		ΔΡ		Temp	Velocity
Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)	Port Point	(in. H ₂ O)	$\sqrt{\Delta P}$	(°F)	(V _s)
A 01	1.20	1.0954	284	75.47	C 01	1.00	1.0000	284	68.89
A 02	1.20	1.0954	284	75.47	C 02	1.20	1.0954	284	75.47
A 03	1.20	1.0954	284	75.47	C 03	1.00	1.0000	283	68.84
A 04	1.20	1.0954	283	75.42	C 04	0.84	0.9165	283	63.10
B 01	1.10	1.0488	285	72.30	D 01	1.20	1.0954	284	75.47
B 02	1.10	1.0488	285	72.30	D 02	1.10	1.0488	284	72.25
B 03	1.10	1.0488	284	72.25	D 03	1.10	1.0488	284	72.25
B 04	0.95	0.9747	284	67.15	D 04	1.10	1.0488	284	72.25

29.32

27.68

18.00

254.47

0.145

Method 2 Results		Leak Checks:				
Average ΔP	1.0994	Pitot:	Pre-Test	Pass		
Average Sqrt ΔP	1.0473		Post-Test	Pass		
Average Velocity (ft/sec)	72.15	Moisture Train:				
No WAF Applied to this Test		Pre-Test:	0.000	CFM @	10.0	in. Hợ
Actual cubic feet per minute (ACFM)	1,101,540	Post-Test:	0.000	CFM @	10.0	in. Hợ
Standard cubic feet per minute (SCFM)	763,159					
Standard cubic feet per hour (SCFH)	45,789,551	Comments	:			
Dry Standard cubic feet per minute (DSCFM)	652,324					
Dry Standard cubic feet per hour (DSCFH)	39,139,427					



 $\ensuremath{\text{M}_{\text{s}}}$ - wet basis lb/lb mole

A - Cross Sectional Area of Stack, Ft2

Bws - Moisture content fraction

Stack Diameter, Feet

METHOD 2 VOLUMETRIC FLOW DATA

Project No: 305091 Company: Primary Energy Plant: Cokenergy Facility Unit ID: HRCC Sample Location: Stack 201 Pitot ID: 888A Pitot Coefficient: 0.84 **Test Parameters** P_{bar} - Barometric pressure, inches Hg 29.28 P_a - Stack Pressure, inches of H₂O -1.00 P_s - Absolute stack pressure, inches Hg 29.21 T_s - Average stack temperature, °F 285 Gas Molecular Weight Method: % CO₂: 5.1 Method 3A, Instrumental % O₂: 12.8

Run No.: Start Date: 9/12/2018 End Date: 9/12/2018 Start Time: 08:40 **End Time:** 08:49 RM Testers: RN

Operating Level:

254.47

% Nitrogen: 82.1

29.33

27.74

18.00

0.140

Moisture Determination Method Used: Meter Calibration: 0.997 Initial Meter Volume (cf) 324.500 Final Meter Volume (cf) 347.041 Meter Temperature, deg F: 80.1 Meter Volume Vm(std): 21.608 Meter Volume Vw(std): 3.527 Delta H: 2.00 3181.5 Train Initial Weight, g: 3256.3 Train Final Weight, g: 0.0 Condensate Initial Vol, mL: 0.0 Condensate Final Vol, mL:

High

	ΔΡ		Temp	Velocity		ΔΡ		Temp	Velocity
Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)	Port Point	(in. H ₂ O)	$\sqrt{\Delta P}$	(°F)	(V _S)
A 01	1.00	1.0000	285	68.86	C 01	1.10	1.0488	285	72.23
A 02	1.10	1.0488	285	72.23	C 02	1.00	1.0000	285	68.86
A 03	1.10	1.0488	285	72.23	C 03	1.00	1.0000	284	68.82
A 04	0.95	0.9747	285	67.12	C 04	0.88	0.9381	284	64.56
B 01	0.98	0.9899	285	68.17	D 01	1.10	1.0488	285	72.23
B 02	0.97	0.9849	285	67.82	D 02	1.10	1.0488	284	72.18
B 03	1.00	1.0000	285	68.86	D 03	1.20	1.0954	284	75.39
B 04	0.90	0.9487	285	65.33	D 04	0.97	0.9849	284	67.78

Method 2 Results		Leak Checks:				
Average ΔP	1.0219	Pitot:	Pre-Test:	Pass		
Average Sqrt ΔP	1.0100		Post-Test:	Pass		
Average Velocity (ft/sec)	69.54	Moisture Train:				
No WAF Applied to this Test		Pre-Test:	0.000	CFM @	12.0	in. Hg
Actual cubic feet per minute (ACFM)	1,061,759	Post-Test:	0.000	CFM @	12.0	in. Hg
Standard cubic feet per minute (SCFM)	734,858					
Standard cubic feet per hour (SCFH)	44,091,452	Comments				
Dry Standard cubic feet per minute (DSCFM)	631,745					
Dry Standard cubic feet per hour (DSCFH)	37,904,696					



METHOD 2 VOLUMETRIC FLOW DATA

Project No: 305091 Company: Primary Energy Plant: Cokenergy Facility Unit ID: HRCC Sample Location: Stack 201 Pitot ID: 888A Pitot Coefficient: 0.84 **Test Parameters** P_{bar} - Barometric pressure, inches Hg 29.28 P_a - Stack Pressure, inches of H₂O -1.00 P_s - Absolute stack pressure, inches Hg 29.21 T_s - Average stack temperature, °F 285 Gas Molecular Weight Method: % CO₂: 5.0 Method 3A, Instrumental % O₂: 13.0 % Nitrogen: 82.0

Run No.: Start Date: 9/12/2018 End Date: 9/12/2018 Start Time: 09:20 **End Time:** 09:28 RM Testers: RN

Operating Level:

M_d - dry basis lb/lb mole 29.32 $\ensuremath{\text{M}_{\text{s}}}$ - wet basis lb/lb mole 27.77 Stack Diameter, Feet 18.00 A - Cross Sectional Area of Stack, Ft2 254.47 **B**ws - Moisture content fraction 0.137

Moisture Determination Method Used: Meter Calibration: 0.997 Initial Meter Volume (cf) 347.300 Final Meter Volume (cf) 370.431 Meter Temperature, deg F: 81.8 Meter Volume Vm(std): 22.104 Meter Volume Vw(std): 3.503 Delta H: 2.00 3395.4 Train Initial Weight, g: 3469.7 Train Final Weight, g: 0.0 Condensate Initial Vol, mL: 0.0 Condensate Final Vol, mL:

High

	ΔΡ		Temp	Velocity		ΔΡ		Temp	Velocity
Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)	Port Point	(in. H ₂ O)	$\sqrt{\Delta P}$	(°F)	(V _s)
A 01	1.00	1.0000	285	68.82	C 01	1.00	1.0000	285	68.82
A 02	1.00	1.0000	284	68.78	C 02	0.98	0.9899	285	68.13
A 03	1.10	1.0488	284	72.13	C 03	0.93	0.9644	285	66.37
A 04	0.97	0.9849	284	67.74	C 04	0.84	0.9165	285	63.08
B 01	0.94	0.9695	285	66.73	D 01	1.10	1.0488	284	72.13
B 02	1.00	1.0000	285	68.82	D 02	1.10	1.0488	285	72.18
B 03	1.00	1.0000	284	68.78	D 03	1.10	1.0488	285	72.18
B 04	0.84	0.9165	284	63.04	D 04	0.90	0.9487	285	65.29

Method 2 Results		Leak Checks:			•	
Average ΔP	0.9875	Pitot:	Pre-Test:	Pass		
Average Sqrt ΔP	0.9929		Post-Test:	Pass		
Average Velocity (ft/sec)	68.31	Moisture Train:				
No WAF Applied to this Test		Pre-Test:	0.000	CFM @	12.0	in. H
Actual cubic feet per minute (ACFM)	1,043,032	Post-Test:	0.000	CFM @	12.0	in. H
Standard cubic feet per minute (SCFM)	721,957					
Standard cubic feet per hour (SCFH)	43,317,420	Comments	:			
Dry Standard cubic feet per minute (DSCFM)	623,188					
Dry Standard cubic feet per hour (DSCFH)	37,391,290					



 $\rm M_{\rm s}$ - wet basis lb/lb mole

A - Cross Sectional Area of Stack, Ft2

Bws - Moisture content fraction

Stack Diameter, Feet

METHOD 2 VOLUMETRIC FLOW DATA

Project No: 305091 Company: Primary Energy Plant: Cokenergy Facility Unit ID: **HRCC** Sample Location: Stack 201 Pitot ID: 888A Pitot Coefficient: 0.84 **Test Parameters** P_{bar} - Barometric pressure, inches Hg 29.28 P_a - Stack Pressure, inches of H₂O -1.00 Ps - Absolute stack pressure, inches Hg 29.21 T_s - Average stack temperature, °F 286 Gas Molecular Weight Method: % CO₂: 5.0 Method 3A, Instrumental % O₂: 13.0 % Nitrogen: 82.0

Operating Level: High Run No.: Start Date: 9/12/2018 End Date: 9/12/2018 Start Time: 10:00 **End Time:** 10:10 RM Testers: RN

254.47

29.32

27.74

18.00

0.140

Moisture Determination Method Used: Meter Calibration: 0.997 Initial Meter Volume (cf) 370.700 Final Meter Volume (cf) 393.341 Meter Temperature, deg F: 81.5 Meter Volume Vm(std): 21.648 Meter Volume Vw(std): 3.522 Delta H: 2.00 3136.5 Train Initial Weight, g: 3211.2 Train Final Weight, g: 0.0 Condensate Initial Vol, mL: 0.0 Condensate Final Vol, mL:

	ΔΡ		Temp	Velocity		ΔΡ		Temp	Velocity
Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)	Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)
A 01	1.10	1.0488	286	72.28	C 01	1.00	1.0000	285	68.87
A 02	1.10	1.0488	286	72.28	C 02	1.00	1.0000	285	68.87
A 03	1.10	1.0488	286	72.28	C 03	1.00	1.0000	285	68.87
A 04	0.95	0.9747	286	67.17	C 04	0.90	0.9487	285	65.33
B 01	1.00	1.0000	286	68.91	D 01	1.00	1.0000	286	68.91
B 02	1.00	1.0000	286	68.91	D 02	1.10	1.0488	286	72.28
B 03	1.00	1.0000	285	68.87	D 03	1.00	1.0000	286	68.91
B 04	0.85	0.9220	285	63.49	D 04	0.92	0.9592	286	66.10

Method 2 Results		Leak Checks:				<u></u>
Average ΔP	1.0013	Pitot:	Pre-Test:	Pass		
Average Sqrt ΔP	1.0000		Post-Test:	Pass		
Average Velocity (ft/sec)	68.89	Moisture Train:				
No WAF Applied to this Test		Pre-Test:	0.000	CFM @	13.0	in. Hg
Actual cubic feet per minute (ACFM)	1,051,895	Post-Test:	0.000	CFM @	13.0	in. Hg
Standard cubic feet per minute (SCFM)	727,115					
Standard cubic feet per hour (SCFH)	43,626,914	Comments	:			
Dry Standard cubic feet per minute (DSCFM)	625,367					
Dry Standard cubic feet per hour (DSCFH)	37.522.033					



Stack Diameter, Feet

A - Cross Sectional Area of Stack, Ft2

Bws - Moisture content fraction

METHOD 2 VOLUMETRIC FLOW DATA

Project No: 305091 Company: Primary Energy Plant: Cokenergy Facility Unit ID: HRCC Sample Location: Stack 201 Pitot ID: 888A Pitot Coefficient: 0.84 **Test Parameters** P_{bar} - Barometric pressure, inches Hg 29.31 P_g - Stack Pressure, inches of H₂O -1.00 Ps - Absolute stack pressure, inches Hg 29.24 T_s - Average stack temperature, °F 286 Gas Molecular Weight Method: % CO₂: 4.9 Method 3A, Instrumental % O₂: 13.1 % Nitrogen: 82.0 M_d - dry basis lb/lb mole 29.31 $\ensuremath{\text{M}_{\text{s}}}$ - wet basis lb/lb mole 27.78

 Operating Level:
 High

 Run No.:
 6

 Start Date:
 9/12/2018

 End Date:
 9/12/2018

 Start Time:
 10:45

 End Time:
 10:54

 RM Testers:
 RN

Moisture Determination Method Used: Meter Calibration: 0.997 Initial Meter Volume (cf) 393.500 Final Meter Volume (cf) 416.705 Meter Temperature, deg F: 80.4 Meter Volume Vm(std): 22.255 Meter Volume Vw(std): 3.480 Delta H: 2.00 3384.5 Train Initial Weight, g: 3458.3 Train Final Weight, g: 0.0 Condensate Initial Vol, mL: 0.0 Condensate Final Vol, mL:

	ΔΡ		Temp	Velocity		ΔΡ		Temp	Velocity
Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)	Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)
A 01	1.00	1.0000	286	68.82	C 01	0.95	0.9747	286	67.08
A 02	1.00	1.0000	286	68.82	C 02	1.00	1.0000	286	68.82
A 03	1.10	1.0488	286	72.18	C 03	1.10	1.0488	286	72.18
A 04	1.00	1.0000	286	68.82	C 04	0.89	0.9434	286	64.93
B 01	0.95	0.9747	285	67.04	D 01	1.10	1.0488	285	72.14
B 02	0.98	0.9899	285	68.09	D 02	1.10	1.0488	285	72.14
B 03	1.10	1.0488	286	72.18	D 03	1.10	1.0488	285	72.14
B 04	0.95	0.9747	286	67.08	D 04	0.97	0.9849	285	67.74

18.00

254.47

0.135

Method 2 Results		Leak Checks:				
Average ΔP	1.0181	Pitot:	Pre-Test:	Pass		
Average Sqrt ΔP	1.0084		Post-Test:	Pass		
Average Velocity (ft/sec)	69.39	Moisture Train:				
No WAF Applied to this Test		Pre-Test:	0.000	CFM @	10.0	in. Hg
Actual cubic feet per minute (ACFM)	1,059,431	Post-Test:	0.000	CFM @	10.0	in. Hg
Standard cubic feet per minute (SCFM)	733,077					
Standard cubic feet per hour (SCFH)	43,984,601	Comments	:			
Dry Standard cubic feet per minute (DSCFM)	633,954					
Dry Standard cubic feet per hour (DSCFH)	38,037,244					



 $\ensuremath{\text{M}_{\text{s}}}$ - wet basis lb/lb mole

A - Cross Sectional Area of Stack, Ft2

Bws - Moisture content fraction

Stack Diameter, Feet

METHOD 2 VOLUMETRIC FLOW DATA

Project No: 305091 Company: Primary Energy Plant: Cokenergy Facility Unit ID: **HRCC** Sample Location: Stack 201 Pitot ID: 888A Pitot Coefficient: 0.84 **Test Parameters** P_{bar} - Barometric pressure, inches Hg 29.28 P_a - Stack Pressure, inches of H₂O -1.00 P_s - Absolute stack pressure, inches Hg 29.21 T_s - Average stack temperature, °F 287 Gas Molecular Weight Method: % CO₂: 4.9 Method 3A, Instrumental % O₂: 13.2 % Nitrogen: 81.9

 Operating Level:
 High

 Run No.:
 7

 Start Date:
 9/12/2018

 End Date:
 9/12/2018

 Start Time:
 11:25

 End Time:
 11:33

 RM Testers:
 RN

Moisture Determination Method Used: Meter Calibration: 0.997 Initial Meter Volume (cf) 416.848 Final Meter Volume (cf) 439.741 Meter Temperature, deg F: 79.8 Meter Volume Vm(std): 21.958 Meter Volume Vw(std): 3.560 Delta H: 2.00 3080.8 Train Initial Weight, g: 3156.3 Train Final Weight, g: 0.0 Condensate Initial Vol, mL: 0.0 Condensate Final Vol, mL:

	ΔΡ		Temp	Velocity		ΔΡ		Temp	Velocity
Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)	Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)
A 01	1.00	1.0000	287	68.96	C 01	1.00	1.0000	287	68.96
A 02	1.00	1.0000	287	68.96	C 02	0.98	0.9899	287	68.27
A 03	1.10	1.0488	287	72.33	C 03	0.98	0.9899	286	68.22
A 04	0.98	0.9899	287	68.27	C 04	0.83	0.9110	286	62.79
B 01	1.00	1.0000	287	68.96	D 01	1.10	1.0488	286	72.28
B 02	1.00	1.0000	287	68.96	D 02	1.20	1.0954	286	75.49
B 03	1.00	1.0000	287	68.96	D 03	1.20	1.0954	286	75.49
B 04	0.90	0.9487	287	65.42	D 04	0.98	0.9899	286	68.22

29.31

27.73

18.00

254.47

0.140

Method 2 Results		Leak Checks:			•	
Average ΔP	1.0156	Pitot:	Pre-Test	Pass		
Average Sqrt ΔP	1.0068		Post-Test	Pass		
Average Velocity (ft/sec)	69.41	Moisture Train:				
No WAF Applied to this Test		Pre-Test:	0.000	CFM @	10.0	in. H
Actual cubic feet per minute (ACFM)	1,059,765	Post-Test:	0.000	CFM @	10.0	in. H
Standard cubic feet per minute (SCFM)	731,574					
Standard cubic feet per hour (SCFH)	43,894,446	Comments	:			
Dry Standard cubic feet per minute (DSCFM)	629,515					
Dry Standard cubic feet per hour (DSCFH)	37,770,914					



METHOD 2 VOLUMETRIC FLOW DATA

Bws - Moisture content fraction

Project No: 305091 Company: Primary Energy Plant: Cokenergy Facility Unit ID: HRCC Sample Location: Stack 201 Pitot ID: 888A Pitot Coefficient: 0.84 **Test Parameters** P_{bar} - Barometric pressure, inches Hg 29.28

P_a - Stack Pressure, inches of H₂O -1.00 P_s - Absolute stack pressure, inches Hg 29.21 T_s - Average stack temperature, °F 286 Gas Molecular Weight Method: % CO₂: 4.8 Method 3A, Instrumental % O₂: 13.4 % Nitrogen: 81.8 M_d - dry basis lb/lb mole 29.30 $\rm M_{\rm s}$ - wet basis lb/lb mole 27.81 Stack Diameter, Feet 18.00 A - Cross Sectional Area of Stack, Ft2 254.47
 Operating Level:
 High

 Run No.:
 8

 Start Date:
 9/12/2018

 Start Date:
 9/12/2018

 End Date:
 9/12/2018

 Start Time:
 12:05

 End Time:
 12:13

 RM Testers:
 RN

Moisture Determination

Method Used: Meter Calibration: 0.997 Initial Meter Volume (cf) 439.810 Final Meter Volume (cf) 462.450 Meter Temperature, deg F: 82.7 Meter Volume Vm(std): 21.599 Meter Volume Vw(std): 3.296 Delta H: 2.00 3377.2 Train Initial Weight, g: 3447.1 Train Final Weight, g: 0.0 Condensate Initial Vol, mL: 0.0 Condensate Final Vol, mL:

	ΔΡ		Temp	Velocity		ΔΡ		Temp	Velocity
Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)	Port Point	(in. H ₂ O)	√∆P	(°F)	(V _S)
A 01	1.10	1.0488	286	72.18	C 01	1.10	1.0488	286	72.18
A 02	1.10	1.0488	286	72.18	C 02	1.00	1.0000	286	68.82
A 03	1.10	1.0488	286	72.18	C 03	1.00	1.0000	286	68.82
A 04	0.95	0.9747	286	67.08	C 04	0.93	0.9644	286	66.37
B 01	0.97	0.9849	286	67.78	D 01	1.10	1.0488	286	72.18
B 02	0.98	0.9899	286	68.13	D 02	1.10	1.0488	286	72.18
B 03	0.97	0.9849	286	67.78	D 03	1.10	1.0488	286	72.18
B 04	0.84	0.9165	286	63.08	D 04	1.00	1.0000	286	68.82

0.132

Method 2 Results		Leak Checks:				
Average ΔP	1.0213	Pitot:	Pre-Test:	Pass		
Average Sqrt ΔP	1.0098		Post-Test:	Pass		
Average Velocity (ft/sec)	69.50	Moisture Train:				
No WAF Applied to this Test		Pre-Test:	0.000	CFM @	10.0	in. Hg
Actual cubic feet per minute (ACFM)	1,061,131	Post-Test:	0.000	CFM @	10.0	in. Hg
Standard cubic feet per minute (SCFM)	733,131					
Standard cubic feet per hour (SCFH)	43,987,867	Comments	:			
Dry Standard cubic feet per minute (DSCFM)	636,072					
Dry Standard cubic feet per hour (DSCFH)	38.164.345					



METHOD 2 VOLUMETRIC FLOW DATA

Project No: 305091
Company: Primary Energy
Plant: Cokenergy Facility
Unit ID: HRCC
Sample Location: Stack 201
Pitot ID: 888A
Pitot Coefficient: 0.84

Test Parameters

P_{bar} - Barometric pressure, inches Hg 29.26 P_a - Stack Pressure, inches of H₂O -1.00 P_s - Absolute stack pressure, inches Hg 29.19 T_s - Average stack temperature, °F 286 Gas Molecular Weight Method: % CO₂: 4.7 Method 3A, Instrumental % O₂: 13.5 % Nitrogen: 81.8 M_d - dry basis lb/lb mole 29.29 $\ensuremath{\text{M}_{\text{s}}}$ - wet basis lb/lb mole 27.75 Stack Diameter, Feet 18.00 A - Cross Sectional Area of Stack, Ft2 254.47 **B**ws - Moisture content fraction 0.136

 Operating Level:
 High

 Run No.:
 9

 Start Date:
 9/12/2018

 End Date:
 9/12/2018

 Start Time:
 12:45

 End Time:
 12:53

 RM Testers:
 RN

Moisture Determination Method Used: Meter Calibration: 0.997 Initial Meter Volume (cf) 462.500 Final Meter Volume (cf) 485.268 Meter Temperature, deg F: 85.3 Meter Volume Vm(std): 21.603 Meter Volume Vw(std): 3.404 Delta H: 2.00 3156.3 Train Initial Weight, g: 3228.5 Train Final Weight, g: 0.0 Condensate Initial Vol, mL: 0.0 Condensate Final Vol, mL:

	ΔΡ		Temp	Velocity		ΔΡ		Temp	Velocity
Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)	Port Point	(in. H ₂ O)	√∆P	(°F)	(V _S)
A 01	1.10	1.0488	286	72.28	C 01	0.97	0.9849	286	67.87
A 02	1.10	1.0488	286	72.28	C 02	0.97	0.9849	286	67.87
A 03	1.10	1.0488	286	72.28	C 03	1.00	1.0000	286	68.91
A 04	0.97	0.9849	285	67.83	C 04	0.92	0.9592	286	66.10
B 01	1.00	1.0000	285	68.87	D 01	1.00	1.0000	286	68.91
B 02	1.00	1.0000	285	68.87	D 02	1.10	1.0488	286	72.28
B 03	0.97	0.9849	286	67.87	D 03	1.20	1.0954	286	75.49
B 04	0.88	0.9381	286	64.65	D 04	0.97	0.9849	286	67.87

Method 2 Results		Leak Checks:				
Average ΔP	1.0156	Pitot:	Pre-Test	: Pass		
Average Sqrt ΔP	1.0070		Post-Test	: Pass		
Average Velocity (ft/sec)	69.39	Moisture Train:				
No WAF Applied to this Test		Pre-Test:	0.000	CFM @	12.0	in. H
Actual cubic feet per minute (ACFM)	1,059,436	Post-Test:	0.000	CFM @	12.0	in. H
Standard cubic feet per minute (SCFM)	731,643					
Standard cubic feet per hour (SCFH)	43,898,567	Comments	:			
Dry Standard cubic feet per minute (DSCFM)	632,043					
Dry Standard cubic feet per hour (DSCFH)	37,922,596					



 $\ensuremath{\text{M}_{\text{s}}}$ - wet basis lb/lb mole

A - Cross Sectional Area of Stack, Ft2

Bws - Moisture content fraction

Stack Diameter, Feet

METHOD 2 VOLUMETRIC FLOW DATA

Project No: 305091 Company: Primary Energy Plant: Cokenergy Facility Unit ID: HRCC Sample Location: Stack 201 Pitot ID: 888A Pitot Coefficient: 0.84 **Test Parameters** P_{bar} - Barometric pressure, inches Hg 29.26 P_a - Stack Pressure, inches of H₂O -1.00 P_s - Absolute stack pressure, inches Hg 29.19 T_s - Average stack temperature, °F 287 Gas Molecular Weight Method: % CO₂: 4.7 Method 3A, Instrumental % O₂: 13.5 % Nitrogen: 81.8

 Operating Level:
 High

 Run No.:
 10

 Start Date:
 9/12/2018

 End Date:
 9/12/2018

 Start Time:
 13:25

 End Time:
 13:33

 RM Testers:
 RN

Moisture Determination Method Used: Meter Calibration: 0.997 Initial Meter Volume (cf) 485.400 Final Meter Volume (cf) 507.710 Meter Temperature, deg F: 88.0 Meter Volume Vm(std): 21.064 Meter Volume Vw(std): 3.461 Delta H: 2.00 3447.1 Train Initial Weight, g: 3520.5 Train Final Weight, g: 0.0 Condensate Initial Vol, mL: 0.0 Condensate Final Vol, mL:

	ΔΡ		Temp	Velocity		ΔΡ		Temp	Velocity
Port Point	(in. H ₂ O)	√∆P	(°F)	(V _s)	Port Point	(in. H ₂ O)	$\sqrt{\Delta P}$	(°F)	(V _s)
A 01	1.00	1.0000	287	69.03	C 01	0.95	0.9747	287	67.28
A 02	1.00	1.0000	287	69.03	C 02	0.98	0.9899	287	68.34
A 03	1.00	1.0000	287	69.03	C 03	0.98	0.9899	287	68.34
A 04	0.95	0.9747	287	67.28	C 04	0.82	0.9055	287	62.51
B 01	0.98	0.9899	287	68.34	D 01	1.10	1.0488	287	72.40
B 02	0.94	0.9695	287	66.93	D 02	1.10	1.0488	287	72.40
B 03	0.98	0.9899	287	68.34	D 03	1.20	1.0954	287	75.62
B 04	0.85	0.9220	287	63.64	D 04	0.96	0.9798	287	67.63

29.29

27.70

18.00

254.47

0.141

Method 2 Results		Leak Checks:				
Average ΔP	0.9869	Pitot:	Pre-Test	Pass		
Average Sqrt ΔP	0.9924		Post-Test	Pass		
Average Velocity (ft/sec)	68.51	Moisture Train:				
No WAF Applied to this Test		Pre-Test:	0.000	CFM @	10.0	in. H
Actual cubic feet per minute (ACFM)	1,045,987	Post-Test:	0.000	CFM @	10.0	in. H
Standard cubic feet per minute (SCFM)	721,206					
Standard cubic feet per hour (SCFH)	43,272,390	Comments	:			
Dry Standard cubic feet per minute (DSCFM)	619,433					
Dry Standard cubic feet per hour (DSCFH)	37,165,989					



Method 4 Test Run Data Summary

Primary Energy Cokenergy Facility HRCC Stack 201 Company: Plant: Unit:

Location:

Test Run Number	1	2	3	4	5	9	7	8	6	10	Average
Source Condition	High										
Date	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/12/18	9/17/18	9/12/18	9/12/18	9/12/18	
Start Time	7:15	8:00	8:40	9:20	10:00	10:45	11:25	12:05	12:45	13:25	
End Time	7:45	8:30	9:10	9:50	10:30	11:15	11:55	12:35	13:15	13:55	
Sample Duration (min):	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Average Stack Temp, T _s (°F):	286.0	285.0	285.0	285.0	286.0	287.0	287.0	286.0	286.0	287.0	286.0
Gas CO ₂ Content (%v/v dry):	5.2	5.1	5.1	5.0	2.0	4.9	4.9	4.8	4.7	4.7	4.9
Gas O ₂ Content (%v/v dry):	12.6	12.7	12.8	13.0	13.0	13.1	13.2	13.4	13.5	13.5	13.1
Gas N ₂ Content (%v/v dry):	82.2	82.2	82.1	82.0	82.0	82.0	81.9	81.8	81.8	81.8	82.0
Gas Dry MW, M _d (lb/lb-mole):	29.34	29.32	29.33	29.32	29.32	29.31	29.31	29.30	29.29	29.29	29.31
Gas Wet MW, M _s (lb/lb-mole):	27.77	27.68	27.74	27.77	27.74	27.78	27.73	27.81	27.75	27.70	27.75
Barometric Pressure, P _{bar} ("Hg)	29.26	29.28	29.28	29.28	29.28	29.31	29.28	29.28	29.26	29.26	29.28
Flue Pressure, $P_{\rm s}$ ("Hg)	29.19	29.21	29.21	29.21	29.21	29.24	29.21	29.21	29.19	29.19	29.20
Meter Y	0.997	0.997	0.997	0.997	0.997	0.997	266'0	0.997	266.0	266.0	0.997
Meter Pressure, P _m ("H ₂ O):	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Meter Temperature, T _m (°F):	6.07	75.0	80.1	81.8	81.5	80.4	8.67	82.7	85.3	0.88	80.5
Meter Volume, V_m (dcf):	22.456	22.510	22.541	23.131	22.641	23.205	22.893	22.640	22.768	22.310	22.710
Meter Volume, V_m (L):	635.883	637.412	638.290	654.997	641.122	657.092	648.258	641.093	644.718	631.749	643.061
Meter Volume, V_m (dcm):	9:99:0	0.637	0.638	0.655	0.641	0.657	0.648	0.641	0.645	0.632	0.643
Meter Volume, V _{m(std)} (dscf):	21.884	21.784	21.609	22.106	21.648	22.254	21.960	21.600	21.601	21.064	21.751
Meter Volume, $V_{m(std)}$ (dscm):	0.620	0.617	0.612	0.626	0.613	0.630	0.622	0.612	0.612	965.0	0.616
Moisture Volume, $V_{wc(std)}$ (scf):	3.503	3.701	3.527	3.503	3.522	3.480	3.560	3.296	3.404	3.461	3.496
Fractional Moisture Content, B _{ws} :	0.138	0.145	0.140	0.137	0.140	0.135	0.139	0.132	0.136	0.141	0.138



Company:	Primary Energy	Project #: 305091	Console Operator:	Ryan Novosel
Plant:	Cokenergy Facility	Test Method: 4	Console ID:	E44
Unit ID:	HRCC	Test Run #: 1	Meter Y :	0.997
Location:	Stack 201	Test Date(s): 9/12/2018	Orifice AH@i:	1.676
			Probe Temp. °F	
Unit Op	erating Mode: High	Barometric Pressure ("Hg): 29.26	Statio	c Pressure ("H ₂ O):1.00

							_					
			Dry G	as Meter					Pre Leak Check:	0.000	@	12
Port &							Impinger					
Point	Clock	Volume	Pressure	Inlet	Outlet	Vacuum	Outlet	Stack	Post Leak Check:	0.000	@	12
ID	Time	Cubic Feet	("H ₂ O)	(°F)	(°F)	("Hg)	(°F)	(°F)				
1-1	7:15:00	279.000	2.0	70.0	70.0	1.0	59.0	286.0		Moisture Dat	а	
	7:20:00	282.760	2.0	72.0	70.0	1.0	60.0	286.0	Impinger	Tare wt.	Fi	nal wt.
	7.25.00	206 560	2.0	72.0	70.0	10	60.0	200.0	In	(arama)		~~~~\

	Net Volume:	22.456						
								·
						1		
						-		
				,				
						-		
	7:45:00	301.456						
	7:40:00	297.770	2.0	72.0	71.0	1.0	62.0	286.0
	7:35:00	294.070	2.0	72.0	71.0	1.0	61.0	286.0
	7:30:00	290.340	2.0	71.0	70.0	1.0	61.0	286.0
	7:25:00	286.560	2.0	72.0	70.0	1.0	60.0	286.0
	7:20:00	282.760	2.0	72.0	70.0	1.0	60.0	286.0
1-1	7:15:00	279.000	2.0	70.0	70.0	1.0	59.0	286.0
ID	Time	Cubic Feet	("H ₂ O)	(°F)	(°F)	("Hg)	(°F)	(°F)
Port & Point	Clock	Volume	Pressure	Inlet	Outlet	Vacuum	Impinger Outlet	Stack

Moisture Data							
Impinger	Final wt.						
ID	(grams)						
	3108.3	3182.6					
	Net:	74.3					

	Gas Analysis (%v/v dry)					
	O ₂ CO ₂					
	12.6	5.2				
Average:	12.6	5.2				



Company: Primary Energy Project #: 305091 Console Operator: Ryan Novosel Plant: Cokenergy Facility Test Method: 4 Console ID: E44 Unit ID: HRCC Test Run #: 2 Meter Y : 0.997 Location: Stack 201 Test Date(s): 9/12/2018 Orifice ΔH@i: 1.676 Probe Temp. °F --

Unit Operating Mode: High Barometric Pressure ("Hg): 29.28 Static Pressure ("H₂O): ___-1.00 Pre Leak Check: 0.000 @ 10 Post Leak Check: 0.000 @ 10

			Dry G	as Meter			1	
Port & Point	Clock	Volume	Pressure	Inlet	Outlet	Vacuum	Impinger Outlet	Stack
ID	Time	Cubic Feet	("H ₂ O)	(°F)	(°F)	("Hg)	(°F)	(°F)
1-1	8:00:00	301.800	2.0	72.0	72.0	2.0	58.0	285.0
	8:05:00	305.590	2.0	75.0	73.0	2.0	58.0	285.0
	8:10:00	309.400	2.0	76.0	74.0	2.0	59.0	285.0
	8:15:00	313.400	2.0	77.0	75.0	2.0	60.0	285.0
	8:20:00	316.880	2.0	77.0	75.0	2.0	60.0	285.0
	8:25:00	320.600	2.0	79.0	75.0	2.0	61.0	285.0
	8:30:00	324.310						
	Net Volume:	22.510						
	·	Average:	2.00	75	5.0		59.3	285.0

Moisture Data									
Impinger	Tare wt.	Final wt.							
ID	(grams)	(grams)							
	3336.7	3415.2							
	Net:	78.5							

Gas Analysis (%v/v dry) CO2 02 12.7 5.1 5.1 12.7 Average:



Company:_	Primary Energy	Project #:	305091	Console Operator:	Ryan Novosel
Plant:	Cokenergy Facility	Test Method:	4	Console ID:	E44
Unit ID:	HRCC	Test Run #:	3	Meter Y :	0.997
Location:	Stack 201	Test Date(s):	9/12/2018	Orifice ΔH@i:	1.676
_				Probe Temp. °F	
Unit Op	erating Mode: High	Barom	etric Pressure ("Hg): 29.28	Station	c Pressure ("H₂O):1.00

			Dry G	as Meter					Pre Leak Check:	0.000	@ 12
Port & Point ID	Clock Time	Volume Cubic Feet	Pressure ("H ₂ O)	Inlet (°F)	Outlet (°F)	Vacuum ("Hg)	Impinger Outlet (°F)	Stack (°F)	Post Leak Check:	0.000	@ 12
1-1	8:40:00	324.500	2.0	80.0	78.0	1.0	60.0	285.0		Moisture Da	ta
	8:45:00	328.310	2.0	80.0	78.0	1.0	60.0	285.0	Impinger	Tare wt.	Final wt.
	8:50:00	332.080	2.0	81.0	78.0	1.0	62.0	285.0	ID	(grams)	(grams)
	8:55:00	335.890	2.0	82.0	78.0	1.0	62.0	285.0		3181.5	3256.3
	9:00:00	339.600	2.0	84.0	79.0	1.0	63.0	285.0			
	9:05:00	343.340	2.0	84.0	79.0	1.0	63.0	285.0			
	9:10:00	347.041									
										Ne	: 74.8
									_		
									<u> </u>	Gas Analy	sis (%v/v dry)
										O ₂	CO ₂
									<u> </u>	12.8	5.1
]		
									Average:	12.8	5.1
	Net Volume:	22.541							_		
		Average:	2.00	80	0.1		61.7	285.0			

Moisture Data								
Impinger	Final wt.							
ID	(grams)	(grams)						
	3181.5	3256.3						
	Net:	74.8						

	Gas Analysis (%v/v dry)					
	02	CO ₂				
	12.8	5.1				
Average:	12.8	5.1				



Company: Primary Energy Project #: 305091 Console Operator: Ryan Novosel Test Method: 4 Plant: Cokenergy Facility Console ID: E44 Unit ID: HRCC Meter Y : 0.997 Test Run #: 4 Location: Stack 201 Test Date(s): 9/12/2018 Orifice ΔH@i: 1.676 Probe Temp. °F --Barometric Pressure ("Hg): 29.28 Unit Operating Mode: Static Pressure ("H₂O): ___-1.00 High

Dry Gas Meter Pre Leak Check: 0.000 Port & Impinger Point Clock Volume Pressure Inlet Outlet Vacuum Outlet Stack Post Leak Check: 0.000 @ 12 Time **Cubic Feet** ("H₂O) (°F) ID (°F) (°F) ("Hg) (°F) 1-1 9:20:00 347.300 2.0 81.0 80.0 2.0 61.0 285.0 2.0 61.0 285.0 9:25:00 351.150 2.0 83.0 80.0 83.0 80.0 2.0 62.0 285.0 9:30:00 355.030 2.0 9:35:00 358.890 285.0 2.0 83.0 81.0 2.0 62.0 2.0 63.0 285.0 9:40:00 362.760 2.0 84.0 81.0 63.0 285.0 9:45:00 366.600 2.0 84.0 81.0 2.0 9:50:00 370.431

Moisture Data								
Impinger	Tare wt.	Final wt.						
ID	(grams)	(grams)						
	3395.4	3469.7						
	Net:	74.3						

@

Net Volume:	23.131			

	Gas Analysis (%v/v dry)					
	O ₂	CO ₂				
	13.0	5.0				
Average:	13.0	5.0				



company:	Primary Energy	Project #: 305091	Console Operator:	Ryan Novosel
Plant:	Cokenergy Facility	Test Method: 4	Console ID:	E44
Unit ID:	HRCC	Test Run #: 5	Meter Y :	0.997
Location:	Stack 201	Test Date(s): 9/12/2018	Orifice ΔH@i:	1.676
			Probe Temp. °F	
Unit Op	erating Mode: High	Barometric Pressure ("Hg): 29.20	8 Station	c Pressure ("H ₂ O):1.00

			Dry G	as Meter					Pre Leak Check:	0.000	@	13
Port & Point	Clock	Volume	Pressure	Inlet	Outlet	Vacuum	Impinger Outlet	Stack	Post Leak Check:	0.000	@	13
ID	Time	Cubic Feet	("H ₂ O)	(°F)	(°F)	("Hg)	(°F)	(°F)				
1-1	10:00:00	370.700	2.0	83.0	81.0	2.0	59.0	286.0	<u> </u>	Moisture Da	ıta	
	10:05:00	374.500	2.0	83.0	81.0	2.0	60.0	286.0	Impinger	Tare wt.	Fin	al wt.
	10:10:00	378.290	2.0	84.0	81.0	2.0	60.0	286.0	ID	(grams)	(gr	ams)
	10:15:00	382.060	2.0	82.0	80.0	2.0	61.0	286.0		3136.5	32	11.2
	10:20:00	385.880	2.0	82.0	80.0	2.0	61.0	286.0				
	10:25:00	389.600	2.0	81.0	80.0	2.0	62.0	286.0				
	10:30:00	393.341										
									1	Ne	t: 7	4.7
									1			
									1			
									1			
									†			
									-			
									1			
									† r	Gas Analy	/sis (%v/	v drv)
									1	O ₂		O ₂
									1	13.0		5.0
									1	10.0	<u> </u>	
									1			
									Average:	13.0	,	5.0
	Net Volume:	22.641							1			
		Average:	2.00	81	1.5		60.5	286.0				

Moisture Data							
Impinger	Tare wt.	Final wt.					
ID	(grams)	(grams)					
	3136.5	3211.2					
	Net:	74.7					

	Gas Analysis (%v/v dry)						
	O ₂	CO ₂					
	13.0	5.0					
Average:	13.0	5.0					



Company: Primary Energy Project #: 305091 Console Operator: Ryan Novosel Plant: Cokenergy Facility Test Method: 4 Console ID: E44 Unit ID: HRCC Test Run #: 6 Meter Y : 0.997 Location: Stack 201 Test Date(s): 9/12/2018 Orifice ΔH@i: 1.676 Probe Temp. °F --Unit Operating Mode: High Barometric Pressure ("Hg): 29.31 Static Pressure ("H₂O): ___-1.00

Port & Point ID	Clock Time	Volume Cubic Feet	Pressure ("H₂O)	Inlet (°F)	Outlet (°F)	Vacuum ("Hg)	Impinger Outlet (°F)	Stack (°F)
1-1	10:45:00	393.500	2.0	80.0	79.0	2.0	60.0	287.0
	10:50:00	397.390	2.0	81.0	80.0	2.0	60.0	287.0
	10:55:00	401.200	2.0	82.0	80.0	2.0	61.0	287.0
	11:00:00	405.090	2.0	82.0	79.0	2.0	62.0	287.0
	11:05:00	409.000	2.0	82.0	79.0	2.0	62.0	287.0
	11:10:00	412.900	2.0	82.0	79.0	2.0	63.0	287.0
	11:15:00	416.705						
		·						
	1	T	1				1	

Moisture Data								
Impinger	Tare wt.	Final wt.						
ID	(grams)	(grams)						
	3384.5	3458.3						
	Net:	73.8						

 Pre Leak Check:
 0.000
 @
 10

 Post Leak Check:
 0.000
 @
 10

	Gas Analysis (%v/v dry)						
	02	CO ₂					
	13.1	4.9					
Average:	13.1	4.9					

Net Volume:

23.205 Average:

2.00

80.4

61.3

287.0



Company:	Primary Energy	Project #: 305091	Console Operator:	Ryan Novosel
Plant:	Cokenergy Facility	Test Method: 4	Console ID:	E44
Unit ID:	HRCC	Test Run #: 7	Meter Y :	0.997
Location:	Stack 201	Test Date(s): 9/12/2018	Orifice ΔH@i:	1.676
			Probe Temp. °F	
Unit Op	erating Mode: High	Barometric Pressure ("Hg): 29.28	Stati	Pressure ("H ₂ O): -1.00

			Dry G	as Meter		_			Pre Leak Check:	0.000	@	10
Port & Point	Clock Time	Volume Cubic Feet	Pressure ("H ₂ O)	Inlet	Outlet	Vacuum	Impinger Outlet	Stack	Post Leak Check:	0.000	@	10
ID				(°F)	(°F)	("Hg)	(°F)	(°F)				
1-1	11:25:00	416.848	2.0	79.0	78.0	2.0	61.0	287.0		Moisture Da		
	11:30:00	420.650	2.0	80.0	78.0	2.0	61.0	287.0	Impinger	Tare wt.	Fin	al wt.
	11:35:00	424.440	2.0	81.0	78.0	2.0	62.0	287.0	ID	(grams)	(gr	ams)
	11:40:00	428.320	2.0	82.0	79.0	2.0	62.0	287.0		3080.8	31	56.3
	11:45:00	432.150	2.0	82.0	79.0	2.0	63.0	287.0				
	11:50:00	435.930	2.0	82.0	79.0	2.0	63.0	287.0				
	11:55:00	439.741										
										Ne	. 7	5.5
										110		0.0
									1			
									-			
									-	Gas Analy		
									-	02		02
									-	13.2	4	1.9
									-			
									A.v.	43.3	1	
	Net Volume:	22.893							Average:	13.2		1.9
			2.00	70			62.0	287.0	†			
		Average:	2.00	79	9.8		62.0	287.0	J			

Moisture Data								
Impinger	Tare wt.	Final wt.						
ID	(grams)	(grams)						
	3080.8	3156.3						
•	Net:	75.5						

	Gas Analys	is (%v/v dry)
	02	CO ₂
	13.2	4.9
Average:	13.2	4.9



Company:	Primary Energy	Project #:	305091	Со	nsole Operator:	Ryan Novosel	
Plant:	Cokenergy Facility	Test Method:	4		Console ID:	E44	
Unit ID:	HRCC	Test Run #:	8		Meter Y :	0.997	
Location:	Stack 201	Test Date(s):	9/12/2018		Orifice ΔH@i:	1.676	
_		-		Pro	obe Temp. °F		
Unit Op	erating Mode: High	Barom	etric Pressure ("Hg):	29.28	Stati	c Pressure ("H₂O):	-1.00

			Dry G	as Meter					Pre Leak Check:	0.000	@ 10
Port & Point ID	Clock Time	Volume Cubic Feet	Pressure ("H ₂ O)	Inlet (°F)	Outlet (°F)	Vacuum ("Hg)	Impinger Outlet (°F)	Stack (°F)	Post Leak Check:	0.000	@ 10
1-1	12:05:00	439.810	2.0	81.0	81.0	2.0	58.0	286.0		Moisture Dat	a
	12:10:00	443.600	2.0	83.0	81.0	2.0	58.0	286.0	Impinger	Tare wt.	Final wt.
	12:15:00	447.370	2.0	83.0	81.0	2.0	59.0	286.0	ID	(grams)	(grams)
	12:20:00	451.130	2.0	85.0	82.0	2.0	59.0	286.0		3377.2	3447.1
	12:25:00	454.900	2.0	85.0	82.0	2.0	60.0	286.0			
	12:30:00	458.700	2.0	86.0	82.0	2.0	60.0	286.0			
	12:35:00	462.450									
										Net:	69.9
										Gas Analys	sis (%v/v dry)
										O ₂	CO ₂
										13.4	4.8
									[
									Average:	13.4	4.8
	Net Volume:	22.640							Ì		
		Average:	2.00	82	2.7		59.0	286.0			

	Moisture Data	<u> </u>
Impinger	Tare wt.	Final wt.
ID	(grams)	(grams)
	3377.2	3447.1
	Net:	69.9

	Gas Analys	is (%v/v dry)
	O ₂	CO ₂
	13.4	4.8
Average:	13.4	4.8



Company: Primary Energy Project #: 305091 Console Operator: Ryan Novosel Plant: Cokenergy Facility Test Method: 4 Console ID: E44 Unit ID: HRCC Test Run #: 9 Meter Y : 0.997 Location: Stack 201 Test Date(s): 9/12/2018 Orifice ΔH@i: 1.676 Probe Temp. °F --Barometric Pressure ("Hg): 29.26 Unit Operating Mode: High Static Pressure ("H₂O): ___-1.00

Pre Leak Check: 0.000 @ 12 Post Leak Check: 0.000 @ 12

			Dry G	as Meter]	
Port & Point ID	Clock Time	Volume Cubic Feet	Pressure ("H ₂ O)	Inlet (°F)	Outlet (°F)	Vacuum ("Hg)	Impinger Outlet (°F)	Stack (°F)
					` '			` ,
1-1	12:45:00	462.500	2.0	85.0	83.0	2.0	61.0	286.0
	12:50:00	466.200	2.0	86.0	83.0	2.0	61.0	286.0
	12:55:00	469.800	2.0	86.0	84.0	2.0	62.0	286.0
	13:00:00	473.770	2.0	87.0	84.0	2.0	63.0	286.0
	13:05:00	477.600	2.0	88.0	85.0	2.0	63.0	286.0
	13:10:00	481.460	2.0	88.0	85.0	2.0	64.0	286.0
	13:15:00	485.268						
	Net Volume:							
		Average:	2.00	8	5.3		62.3	286.0

	Moisture Data	1
Impinger	Tare wt.	Final wt.
ID	(grams)	(grams)
	3156.3	3228.5
	Net:	72.2

Gas Analys	sis (%v/v dry)
O ₂	CO2
13.5	4.7
12 E	4.7



Company: Primary Energy Project #: 305091 Console Operator: Ryan Novosel Plant: Cokenergy Facility Test Method: 4 Console ID: E44 Unit ID: HRCC Test Run #: 10 Meter Y : 0.997 Location: Stack 201 Test Date(s): 9/12/2018 Orifice ΔH@i: 1.676 Probe Temp. °F --Barometric Pressure ("Hg): 29.26 Unit Operating Mode: High Static Pressure ("H₂O): ___-1.00

Pre Leak Check: 0.000 @ 10

			Dry Ga	as Meter					Pre Leak Check:	0.000	@ 10
Port & Point ID	Clock Time	Volume Cubic Feet	Pressure ("H ₂ O)	Inlet (°F)	Outlet (°F)	Vacuum ("Hg)	Impinger Outlet (°F)	Stack (°F)	Post Leak Check:	0.000	@ 10
1-1	13:25:00	485.400	2.0	87.0	85.0	2.0	60.0	287.0		Moisture Dat	
	13:30:00	489.440	2.0	89.0	85.0	2.0	60.0	287.0	Impinger	Tare wt.	Final wt.
	13:35:00	492.250	2.0	89.0	86.0	2.0	61.0	287.0	ID	(grams)	(grams)
	13:40:00	496.130	2.0	91.0	86.0	2.0	61.0	287.0	1 ""	3447.1	3520.5
	13:45:00	500.000	2.0	92.0	87.0	2.0	62.0	287.0		044777	0020.0
	13:50:00	503.850	2.0	92.0	87.0	2.0	62.0	287.0			
	13:55:00	507.710		02.0	01.10		02.0	20110			
	.0.00.00	30									
									1		
									-	Net	73.4
										Gas Analy	sis (%v/v dry)
										02	CO ₂
								_		13.5	4.7
									Average:	13.5	4.7
	Net Volume:	22.310									-
		Average:	2.00	88	3.0		61.0	287.0			

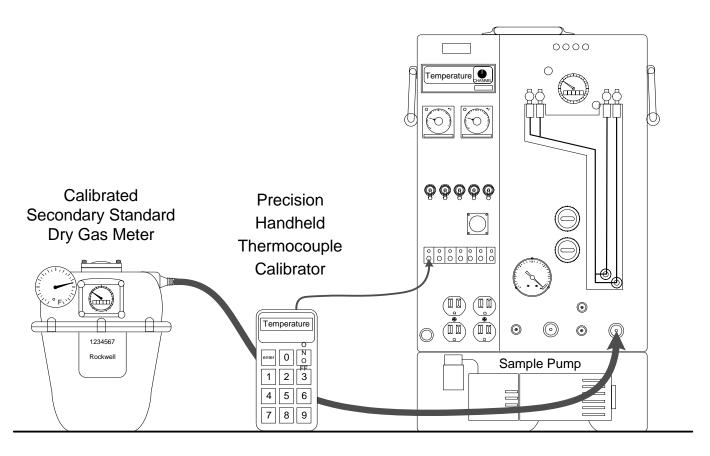
	Moisture Data	1
Impinger	Tare wt.	Final wt.
ID	(grams)	(grams)
	3447.1	3520.5
	Net:	73.4



Equipment Configuration for Meter Box Calibration

USEPA Promulgated Method 5

Meter Box / Control Module



Pre Test DGM Calibration

(before use, as left data)

O T R O Control Module I.D. No. E44 Sys
Standard Meter I.D. No.: 3623853 Stan
Standard Meter (Y_{ds}): 0.9941 Star

System Leak Check: Stable @ 8" w.c. @ > 5 min.

Standard Meter Calibration Date: 08-04-2017

Standard Meter Calibration Due Date: 08-04-2018

5 min. Date: Calibrated By: Barometric Pres

03-21-2018 L. Campo

	Flow Rate (Q) sofm
	Gamma Pressure equal to: Gamma Time Correction Coef. 0.75 cfm @ STP Flow Rate Sec. Y (DH@) (Q) scfm
29.23	Gamma Correction Coef. Y
sure :	Time Min.
Barometric Pressure :	Dry Gas Meter Dry Gas Meter Dry Gas Meter Inlet Temp. F Avg. Temp. F Time Tdi Tdo Td
	Dry Gas Meter Outlet Temp. F Tdo
08-04-2018	Dry Gas Meter Inlet Temp. F Tdi
Standard Meter Calibration Due Date: 08-04-2018	Standard Meter Dry Gas Meter Dry Gas Meter Temp. F Outlet Temp. F Avg. Temp. F Tdo
Standard Meter Ca	Orifice Meter Standard Meter Control Module Setting Pressure Volume DGM Volume in.H ₂ 0 Vr
•	Standard Meter Volume Vr
0.9941	Orifice Meter Setting Pressure in.H ₂ 0 in.H ₂ 0
, (sp):	Orifice Setting in.H ₂ 0
Standard Meter (Y _{ds}):	Orifice Meter Setting Pressure Run Number in.H ₂ 0 in.H ₂ 0

Initial			988.248	933.385	74	75	75						
Final			995.554	940.698	74	76	76						
Difference 1	0.35	0.35	7.306	7.313	74	76	76	76	20	2	0.995	1.528	0.35
Initial			4.192	949.326	74	75	75						
Final			12.444	957.550	74	76	76	•			•		
Difference 2	0.85	0.85	8.252	8.224	74	92	76	92	15	2	0.998	1.649	0.53
Initial			13.068	958.171	74	92	76						
Final			21.254	966.327	74	. 76	76						
Difference 3	2.00	2.00	8.186	8.156	74	. 76	76	76	10	20	0.996	1.849	0.76

1.676

0.997

Pre Test Calibration Factor (Yavg)

Specifications: CFR 40, Part 60, Appendix A, Method 5, section 10.3.1. Calibration Before Use.



Pre Test Temperature Indicator Calibration

(For K-Type Thermocouples)

Date: 03-21-2018

Name: L. Campo

Control Module Number: E44

Ambient Temperature: 74 °F

Reference std. thermocouple calibrator: Omega Engineering, Inc. Model No. CL23A *

Reference std. thermocouple calibrator serial number: T-236796

Date of reference std. calibration verification:

6/1/2017

Due date of reference std. calibration verification: 6/1/2018

Reference Thermometer (°F)	Thermometer Under Test (°F)	Temperature Difference (%)
0	2	0.4
600	602	0.2
1200	1201	0.1

Temperature Difference, % =
$$\frac{\text{Ref. std. temp. (°F + 460)} - \text{Therm. under test temp. (°F + 460)}}{\text{Reference std temp. (°F + 460)}} \times 100 \le 1.5 \%$$

^{*} Reference std. is directly traceable to NIST (National Institute of Standards and Technology)

Post Test DGM Calibration (after use, as found data)

10-09-2018	L. Campo	29.18
② > 5 min Date:	Calibrated By:	Barometric Pressure :
Passed @ > 8" w.c. @ > 5 min Date:	ω	8-22-2019
System Leak Check:	Standard Meter Calibration Date:	Standard Meter Calibration Due Date:
E-44	3623853	0.9972
Control Module I.D. No.	Standard Meter I.D. No.:	Standard Meter (Y _{ds}):

	Sample Hall	Sample Halli	Sample Hair Sample Hair Standard Meter Common Module	Cornio Module	Staridald Meter	DIY GAS METEL DIY GAS METEL DIY GAS METEL	DI y Gas Meter	DIY GAS INFEE			Gallina	riessare equal to.	
	Vacuum (Hg")	/acuum (Hg") DH $@_{avg}(H_20")$ Gas Volume	Gas Volume	DGM Volume	Temp. F	Inlet Temp. F	Outlet Temp. F	Inlet Temp. F Outlet Temp. F Avg. Temp. F Time	Time	Time	Correction Coef	Time Correction Coef 0.75 cfm @ STP Flow Rate	Flow Rate
un Number	Run Number (avg test value) (avg test value)	(avg test value)	٧٢	PΛ	Ļ	ŢĠ	Дф	ΡL	Min.	Sec.	>	(DH@)	(Q) scfm

Initial			840.636	537.140	73	74	74						
Final			848.663	545.106	73	75	75						
Difference 1	0	0.85	8.027	7.966	73	75	75	75	15	16	1.006	1.785	0.50
Initial			848.663	545.106	73	75	75						
Final			856.667	553.042	73	92	92						
Difference 2	0	0.85	8.004	7.936	73	76	76	76	15	19	1.008	1.804	0.50
Initial			856.667	553.042	73	92	76						
Final			864.612	560.928	73	77	77						
Difference 3	0	0.85	7.945	7.886	73	77	77	77	15	15	1.009	1.812	0.50
							Pos	Post Test Calibration Factor (Y _{ave}	tion Factor	r (Y _{avq}	1.008	1.800	
							Pre Pre	Pre Test Calibration Factor (Y _{avg}): Pre Test Calibration (Date):	ר Factor (Y_{ϵ}) (Date):	1	0.997 03-21-2018		
							р%	% diff. between Pre & Post (Y_{avg}) :	s & Post (Y	avg):	1.1%		
Specifications: CF	⁻ R 40, Part 60, <i>F</i>	⁴ppendix A, Meth	od 5, section 10.3.	Specifications: CFR 40, Part 60, Appendix A, Method 5, section 10.3.2. Calibration After Use.			If di	fference betw	een Pre &	Post is le	If difference between Pre & Post is less than 5% use Pre Test (Y)	Test (Y)	



Post Test Temperature Indicator Calibration

(For K-Type Thermocouples)

Date:	10-09-2018			
Name:	L. Campo	_		
Control M	Module Number:	E-44	_	
Ambient	Temperature:	73	_°F	
	ce std. thermocouple		0 0	Inc. Model No. CL23A *

Date of reference std. calibration verification:

0

600

1200

Due date of reference std. calibration verification:

1

601

1201

5/31/2018 5/31/2019

0.2

0.1

0.1

Temperature Difference, % =
$$\frac{\text{Ref. std. temp. (°F + 460)} - \text{Therm. under test temp. (°F + 460)}}{\text{Reference std temp. (°F + 460)}} \times 100 \le 1.5 \%$$

TRC Report 305091

^{*} Reference std. is directly traceable to NIST (National Institute of Standards and Technology)

Field Calibration Tool Identification

Analyst:	Ryan Novosel	
Date:	9/11/2018	
Project Number:	305091	
Client:	Primary Energy	
Test Location:	Stack 201	

Calibration Tools:

Include all of the tools from the field calibration kit that you will be using on this project. (See SOP AM-CAL-025 for instructions on re-verification)

Item	ID#	S/N	Calibration Due Date
Digital Caliper	DC014		9/7/2019
Thermometer	TH014	122436576	9/7/2017
Barometer	BA014	160253744	3/8/2019
Calibration Weight	W100-014	2341	9/7/2019
Calibration Weight A	W500-014	4593	9/7/2019
Calibration Weight B	W500/2-014	5094	9/7/2019
Type A Angle Finder	AF014		9/7/2019
Plastic/Magnetic Torpedo Level	TL014		

Pre-Test Thermocouple Calibration Checks

Analyst:	Ryan Novosel
Date:	9/11/18
Project Number:	305091
Client:	Primary Energy
Test Location:	Stack 201

(See SOP AM-CAL-005 for instructions)

Console/Meter Box ID #	E44
Probe ID#	888
Test Location/Measurement Point Info:	Ground
NIST Thermometer ID #	TH014

Procedure 1: Calibrate thermocouple against a reference thermometer.

After each test run series, check the accuracy (and, hence, the calibration) of each thermocouple system at ambient temperature, or any other temperature, within the range specified by the manufacturer, using a reference thermometer.

Procedure 2: Check the response of the thermocouple to a change in temperature.

Check the "continuity" of the thermocouple by subjecting it to a change in temperature (e.g., removing it from the stack or touching an ice cube). This step will also check for loose connections and reversed connections.

Measurement	T/C Temp, °F	NIST Thermometer Temp, °F	Difference, °F (± 2)	Continuity Check	Overall Status
Stack	80	80.5	0.5	Pass	Pass
Filter					
Impinger Exit	79	80	1.0	Pass	Pass
Meter in	80	80.2	0.2	Pass	Pass
Meter Out	80	80.3	0.3	Pass	Pass
Probe					
Other					
Other					

Notes:			
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Post-Test Thermocouple Calibration Checks

Analyst:	Ryan Novosel
Date:	9/13/18
Project Number:	305091
Client:	Primary Energy
Test Location:	Stack 201

(See SOP AM-CAL-005 for instructions)

Console/Meter Box ID #	E44
Probe ID#	888
Test Location/Measurement Point Info:	Warehouse
NIST Thermometer ID #	TH014

Procedure 1: Calibrate thermocouple against a reference thermometer.

After each test run series, check the accuracy (and, hence, the calibration) of each thermocouple system at ambient temperature, or any other temperature, within the range specified by the manufacturer, using a reference thermometer.

Procedure 2: Check the response of the thermocouple to a change in temperature.

Check the "continuity" of the thermocouple by subjecting it to a change in temperature (e.g., removing it from the stack or touching an ice cube). This step will also check for loose connections and reversed connections.

Measurement	T/C Temp, °F	NIST Thermometer Temp, °F	Difference, °F (± 2)	Continuity Check	Overall Status
Stack	75	75.9	0.9	Pass	Pass
Filter					
Impinger Exit	76	76.4	0.4	Pass	Pass
Meter in	76	77	1.0	Pass	Pass
Meter Out	76	77	1.0	Pass	Pass
Probe					
Other					
Other					

Notes:				
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PRE-TEST TYPE S PITOT TUBE INSPECTION

(See SOP AM-CAL-006 for Instructions)

Pitot Tube No.: 888 Date: 9/11/2018

Analyst: Ryan Novosel

Project Number:

305091

Client: Primary Energy

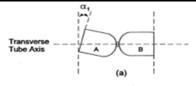
Test Location:

Stack 201

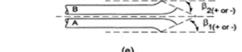
Type S Pitot tube face openings meet alignment specifications illustrated in Figures 2-2 and 2-3 of Method 2?

x yes

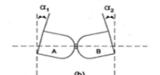
Comments:



Limit: $\alpha_1 < 10^{\circ}$



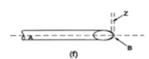
Limit: $\beta_1 < 5^\circ$



Limit:

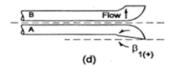
 $\alpha_2 < 10^{\circ}$





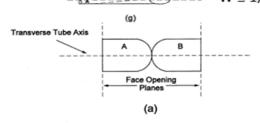
Limit:

 $Z \le 1/8$ (0.125) inch

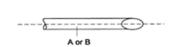




Limit: $W \le 1/32 (0.0132)$ inch



B-Side Plane



Requirement:

Face opening planes perpendicular to transverse axis

Requirement:

Face opening planes parallel to longitudinal axis

Requirement:

Both legs of equal length and centerlines coincident when viewed

POST-TEST TYPE S PITOT TUBE INSPECTION

(See SOP AM-CAL-006 for Instructions)

Pitot Tube No.: Date: 9/13/2018 888

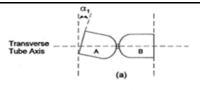
Analyst: Ryan Novosel

Project Number: 305091 Client: Primary Energy Stack 201 Test Location:

Type S Pitot tube face openings meet alignment specifications illustrated in Figures 2-2 and 2-3 of Method 2?

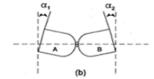
yes

Comments:



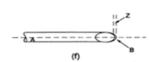
Limit:



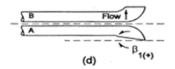


Limit: $\alpha_2 < 10^{\circ}$





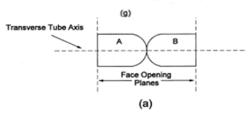
Limit: $Z \le 1/8$ (0.125) inch

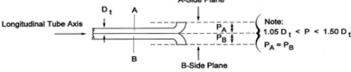


Limit: $\beta_1 < 5^\circ$



Limit: $W \le 1/32 (0.0132)$ inch





Requirement:

Requirement:

Face opening planes

Face opening planes parallel to longitudinal axis

perpendicular to transverse axis

A or B

Requirement:

Both legs of equal length and centerlines coincident when viewed

PRE-TEST PITOT TUBE ASSEMBLY INSPECTION

 Analyst:
 Ryan Novosel

 Date:
 9/11/18

 Project Number:
 305091

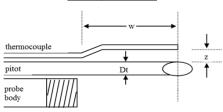
 Test Location:
 Stack 201

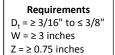
 EPA Probe Configuration:
 Method 2

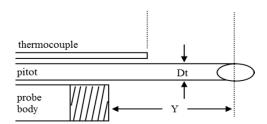
Pitot Assembly Intercomponent Spacings Meet Requirements (See SOP AM-CAL-006 for Instructions)

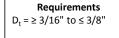
x Yes ____No



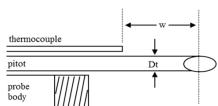




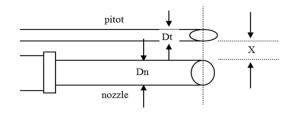




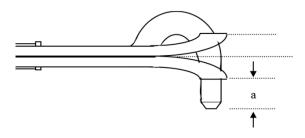
Configuration B



Requirements $D_t = \ge 3/16" \text{ to } \le 3/8"$ $W = \ge 2 \text{ inches}$



Requirements $D_t = \ge 3/16" \text{ to } \le 3/8"$ $X = \ge 0.75 \text{ inches}$



Requirements $a = \ge 0$ inches

POST-TEST PITOT TUBE ASSEMBLY INSPECTION

 Analyst:
 Ryan Novosel

 Date:
 9/13/18

 Project Number:
 305091

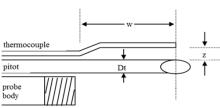
 Test Location:
 Stack 201

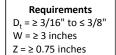
 EPA Probe Configuration:
 Method 2

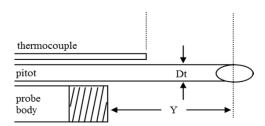
Pitot Assembly Intercomponent Spacings Meet Requirements (See SOP AM-CAL-006 for Instructions)

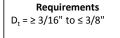
x Yes No



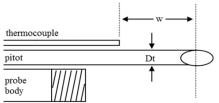




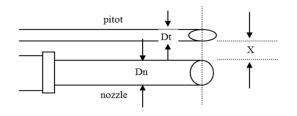




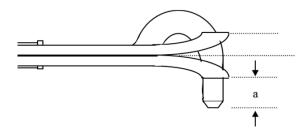
Configuration B



Requirements $D_t = \ge 3/16$ " to $\le 3/8$ " $W = \ge 2$ inches



Requirements $D_t = \ge 3/16" \text{ to } \le 3/8"$ $X = \ge 0.75 \text{ inches}$



Requirements $a = \ge 0$ inches



Instrumental Reference Method Field Data

Project Number:	305091	Date:	9/12/2018
Customer:	Primary Energy	Facility:	Cokenergy Facility
Unit Identification:	HRCC	Recorded by:	Gavin Lewis
Sample Location:	Stack 201	Fc Factor:	-
Load Level/Condition:	> 50% load	Fd Factor:	-

RM Analyzer Information								
Reference	Method Probe Type (Moisture Bas	Extractive (Dry)						
Pollutant	Manufacturer	Model #	Serial Number					
NO _X	-	-	-					
SO ₂	Thermo	43C	509110869					
CO	-	-	-					
CO ₂	Servomex	1440	01420c/1485					
O_2	Servomex	1440	01415c/1492					

	Reference Method Initial Calibration Error Test									
Pollutant	Cal Gas	Cal G	as Cylinder Inforr	mation	Analyzer	Absolute	%	Error		
Foliularii	Level	Concentration	Exp Date	ID#	Response	Difference	Cal Error	Status		
	Low	-	-	-	-	-	-	-		
NO_X	Mid	-	-	-	-	-	-	-		
	High	-	-	-	-	-	-	-		
	Low	0	01/24/26	EB0041701	0.50	0.50	0.11	Pass		
SO ₂	Mid	201.8	06/13/25	SG9135799BAL	202.31	0.51	0.11	Pass		
	High	452.6	01/03/26	SG9151303 BAL	456.51	3.91	0.86	Pass		
	Low	-	-	-	-	-	-	-		
CO	Mid	-	-	-	-	-	-	-		
	High	-	-	-	-	-	-	-		
	Low	0	01/24/26	EB0041701	0.03	0.03	0.17	Pass		
CO ₂	Mid	8.798	05/17/26	CC473136	8.83	0.03	0.18	Pass		
	High	17.86	05/15/23	CC19838	17.86	0.00	0.00	Pass		
	Low	0	01/24/26	EB0041701	0.03	0.03	0.14	Pass		
O_2	Mid	9.976	05/17/26	CC473136	10.08	0.10	0.47	Pass		
	High	22.01	05/15/23	CC19838	22.07	0.06	0.27	Pass		

CEM System Information								
CEM	System Probe Type (Moisture Basis):		Extractive (Dry)					
Pollutant	Manufacturer/Model		Serial Number					
Pollulani	ivianulacturer/iviodei	Primary	Backup					
NO _X	-	-	-					
SO ₂	Thermo Scientific 43i-HL	1152150034	-					
CO	-	-	-					
CO ₂	-	-	-					
O ₂	Brand Gaus 4705	11401	-					



Instrumental Reference Method Field Data

Project Number:	305091	Start Date:	9/12/2018
Customer:	Primary Energy	End Date:	9/12/2018
Unit Identification:	HRCC	Facility:	Cokenergy Facility
Sample Location:	Stack 201	Recorded by:	Gavin Lewis
Load Level/Condition:	> 50% load	Fc Factor:	-
		Fd Factor:	-

Actual Concentration of the Upscale Calibration Gas, C _{MA}								
	NO _X	SO ₂	CO	CO ₂	O ₂			
C _{MA} (Day 1)	-	201.8	-	8.798	9.976			
C _{MA} (Day 2)	-	-	-	-	-			

	System Responses to Zero Calibration Gas									
Run No.	N	O _X	S	O ₂	С	O	C	02	O ₂	
Kullino.	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	-	-	2.29	3.50	-	-	0.05	0.05	0.05	0.05
2	-	-	3.50	4.74	-	-	0.05	0.05	0.05	0.05
3	-	-	4.74	3.50	-	-	0.05	0.05	0.05	0.05
4	-	-	3.50	3.42	-	-	0.05	0.05	0.05	0.05
5	-	-	3.42	4.42	-	-	0.05	0.05	0.05	0.05
6	-	-	4.42	2.69	-	-	0.05	0.05	0.05	0.05
7	-	-	2.69	3.42	-	-	0.05	0.05	0.05	0.05
8	-	-	3.42	3.33	-	-	0.05	0.05	0.05	0.05
9	-	-	3.33	3.21	-	-	0.05	0.05	0.05	0.05
10	-	-	3.21	2.25	-	-	0.05	0.05	0.05	0.05

	System Responses to Upscale Calibration Gas									
Run No.	N	O _X	S	O ₂	С	0	C	02	O ₂	
Kuii No.	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	-	-	197.26	196.64	-	-	8.76	8.77	9.98	9.98
2	-	-	196.64	196.89	-	-	8.77	8.77	9.98	9.98
3	-	-	196.89	197.72	-	-	8.77	8.78	9.98	9.98
4	-	-	197.72	198.01	-	-	8.78	8.77	9.98	9.98
5	-	-	198.01	197.84	-	-	8.77	8.76	9.98	9.98
6	-	=	197.84	196.75	-	-	8.76	8.76	9.98	9.98
7	-	-	196.75	197.60	-	-	8.76	8.76	9.98	9.98
8	-	-	197.60	197.22	-	-	8.76	8.75	9.98	9.98
9	-	-	197.22	197.39	-	-	8.75	8.75	9.98	9.98
10	-	-	197.39	196.06	-	-	8.75	8.73	9.98	9.98



Instrumental Reference Method Calibration Data

Project Number:	305091	Start Date:	9/12/2018
Customer:	Primary Energy	End Date:	9/12/2018
Unit Identification:	HRCC	Facility:	Cokenergy Facility
Sample Location:	Stack 201	Recorded by:	Gavin Lewis

SO₂ System Bias/Calibration Error and Drift Summary

		Span	Cdir	Initial	Values	Final \	Values	Drift
Run#	Calibration Gas	Span Gas	Direct Cal	System	System	System	System	(% of span)
	Level	Concentration	Response	Response	Bias	Response	Bias	
		(ppm)	(ppm)	(ppm)	(% of span)	(ppm)	(% of span)	
1	Low Level Gas	452.6	0.5	2.29	0.4	3.50	0.7	0.3
	Upscale Gas	452.6	202.31	197.26	-1.1	196.64	-1.3	0.1
2	Low Level Gas	452.6	0.5	3.50	0.7	4.74	0.9	0.3
	Upscale Gas	452.6	202.31	196.64	-1.3	196.89	-1.2	0.1
3	Low Level Gas	452.6	0.5	4.74	0.9	3.50	0.7	0.3
	Upscale Gas	452.6	202.31	196.89	-1.2	197.72	-1.0	0.2
4	Low Level Gas	452.6	0.5	3.50	0.7	3.42	0.6	0.0
	Upscale Gas	452.6	202.31	197.72	-1.0	198.01	-1.0	0.1
5	Low Level Gas	452.6	0.5	3.42	0.6	4.42	0.9	0.2
	Upscale Gas	452.6	202.31	198.01	-1.0	197.84	-1.0	0.0
6	Low Level Gas	452.6	0.5	4.42	0.9	2.69	0.5	0.4
	Upscale Gas	452.6	202.31	197.84	-1.0	196.75	-1.2	0.2
7	Low Level Gas	452.6	0.5	2.69	0.5	3.42	0.6	0.2
	Upscale Gas	452.6	202.31	196.75	-1.2	197.60	-1.0	0.2
8	Low Level Gas	452.6	0.5	3.42	0.6	3.33	0.6	0.0
	Upscale Gas	452.6	202.31	197.60	-1.0	197.22	-1.1	0.1
9	Low Level Gas	452.6	0.5	3.33	0.6	3.21	0.6	0.0
	Upscale Gas	452.6	202.31	197.22	-1.1	197.39	-1.1	0.0
10	Low Level Gas	452.6	0.5	3.21	0.6	2.25	0.4	0.2
	Upscale Gas	452.6	202.31	197.39	-1.1	196.06	-1.4	0.3



Instrumental Reference Method Calibration Data

Project Number:	305091	Start Date:	9/12/2018
Customer:	Primary Energy	End Date:	9/12/2018
Unit Identification:	HRCC	Facility:	Cokenergy Facility
Sample Location:	Stack 201	Recorded by:	Gavin Lewis

CO₂ System Bias/Calibration Error and Drift Summary

		Span	Cdir	Initial	Values	Final \	Values	Drift
Run#	Calibration Gas	Span Gas	Direct Cal	System	System	System	System	(% of span)
	Level	Concentration	Response	Response	Bias	Response	Bias	
		(%vol)	(%vol)	(%vol)	(% of span)	(%vol)	(% of span)	
1	Low Level Gas	17.86	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	17.86	8.83	8.76	-0.4	8.77	-0.3	0.1
2	Low Level Gas	17.86	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	17.86	8.83	8.77	-0.3	8.77	-0.3	0.0
3	Low Level Gas	17.86	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	17.86	8.83	8.77	-0.3	8.78	-0.3	0.1
4	Low Level Gas	17.86	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	17.86	8.83	8.78	-0.3	8.77	-0.3	0.1
5	Low Level Gas	17.86	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	17.86	8.83	8.77	-0.3	8.76	-0.4	0.1
6	Low Level Gas	17.86	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	17.86	8.83	8.76	-0.4	8.76	-0.4	0.0
7	Low Level Gas	17.86	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	17.86	8.83	8.76	-0.4	8.76	-0.4	0.0
8	Low Level Gas	17.86	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	17.86	8.83	8.76	-0.4	8.75	-0.4	0.1
9	Low Level Gas	17.86	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	17.86	8.83	8.75	-0.4	8.75	-0.4	0.0
10	Low Level Gas	17.86	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	17.86	8.83	8.75	-0.4	8.73	-0.6	0.1



Instrumental Reference Method Calibration Data

Project Number:	305091	Start Date:	9/12/2018
Customer:	Primary Energy	End Date:	9/12/2018
Unit Identification:	HRCC	Facility:	Cokenergy Facility
Sample Location:	Stack 201	Recorded by:	Gavin Lewis

O₂ System Bias/Calibration Error and Drift Summary

		Span	Cdir	Initial	Values	Final \	Values	Drift
Run#	Calibration Gas	Span Gas	Direct Cal	System	System	System	System	(% of span)
	Level	Concentration	Response	Response	Bias	Response	Bias	
		(%vol)	(ppm)	(%vol)	(% of span)	(%vol)	(% of span)	
1	Low Level Gas	22.01	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	22.01	10.08	9.98	-0.5	9.98	-0.5	0.0
2	Low Level Gas	22.01	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	22.01	10.08	9.98	-0.5	9.98	-0.5	0.0
3	Low Level Gas	22.01	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	22.01	10.08	9.98	-0.5	9.98	-0.5	0.0
4	Low Level Gas	22.01	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	22.01	10.08	9.98	-0.5	9.98	-0.5	0.0
5	Low Level Gas	22.01	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	22.01	10.08	9.98	-0.5	9.98	-0.5	0.0
6	Low Level Gas	22.01	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	22.01	10.08	9.98	-0.5	9.98	-0.5	0.0
7	Low Level Gas	22.01	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	22.01	10.08	9.98	-0.5	9.98	-0.5	0.0
8	Low Level Gas	22.01	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	22.01	10.08	9.98	-0.5	9.98	-0.5	0.0
9	Low Level Gas	22.01	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	22.01	10.08	9.98	-0.5	9.98	-0.5	0.0
10	Low Level Gas	22.01	0.03	0.05	0.1	0.05	0.1	0.0
	Upscale Gas	22.01	10.08	9.98	-0.5	9.98	-0.5	0.0



Instrumental Reference Method Calibration Corrected Test Data

Project Number: Start Date: 9/12/18 Customer: Primary Energy End Date: 9/12/18 Cokenergy Facility
Gavin Lewis Unit Identification: HRCC Facility: Sample Location: Stack 201 Recorded by: Extractive (Dry) > 50% load Fc Factor: RM Probe Type: Load Level/Condition: Fd Factor:

Run		Start	End	NOX	SO2	co	CO2	02
#	Date	Time	Time	ppmvd	ppmvd	ppmvd	% v/v dry	% v/v dry
1	9/12/18	7:15	7:35	-	155.5	-	5.2	12.6
2	9/12/18	8:00	8:20	-	151.7	-	5.1	12.7
3	9/12/18	8:40	9:00	-	155.5	-	5.1	12.8
4	9/12/18	9:20	9:40	-	144.9	-	5.0	13.0
5	9/12/18	10:00	10:20	-	139.3	-	5.0	13.0
6	9/12/18	10:45	11:05	-	132.6	-	4.9	13.1
7	9/12/18	11:25	11:45	-	134.6	-	4.9	13.2
8	9/12/18	12:05	12:25	-	135.1	-	4.8	13.4
9	9/12/18	12:45	13:05	-	128.3	-	4.7	13.5
10	9/12/18	13:25	13:45	-	123.3	-	4.7	13.5

Run	NOX	SO2	co	NOX	SO2	CO	Flow
#	lb/MMBtu	lb/MMBtu	lb/MMBtu	lb/hr	lb/hr	lb/hr	DSCFN
1	-	-	-	-	995.53	-	642,94
2	-	-	-	=	985.56	-	652,32
3	-	-	-	-	978.42	-	631,74
4	-	-	-	-	899.58	-	623,188
5	-	-	-	=	867.53	-	625,367
6	-	-	-	-	837.47	-	633,954
7	-	-	-	-	843.99	-	629,51
8	-	-	-	=	855.59	=	636,072
9	-	-	-	-	807.91	-	632,043
10	-	-	-	-	760.57	-	619,433

Initial Calibration / Response Time

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry	
9/12/2018 6:01	0.50	0.03	0.03	
9/12/2018 6:02	0.50	0.03	0.03	Local Calibrations
9/12/2018 6:03	0.50	0.03	0.03	
9/12/2018 6:04	0.50	0.29	0.06	
9/12/2018 6:05	64.21	7.24	0.07	
9/12/2018 6:06	376.27	9.11	0.03	
9/12/2018 6:07	433.13	9.12	0.03	
9/12/2018 6:08	442.89	9.13	0.03	
9/12/2018 6:09	445.74	9.14	0.03	
9/12/2018 6:10	446.93	9.15	0.03	
9/12/2018 6:11	447.85	9.15	0.03	
9/12/2018 6:12	453.35	9.15	0.03	
9/12/2018 6:13	455.97	9.15	0.03	
9/12/2018 6:14	456.51	9.15	0.03	
9/12/2018 6:15	456.77	9.14	0.03	
9/12/2018 6:16	291.79	8.95	0.07	
9/12/2018 6:17	202.31	9.13	0.03	
9/12/2018 6:18	203.24	9.13	0.02	
9/12/2018 6:19	202.99	9.13	0.02	
9/12/2018 6:20	141.18	13.53	12.09	
9/12/2018 6:21	1.58	18.00	22.05	
9/12/2018 6:22	1.00	17.86	22.07	
9/12/2018 6:23	1.00	17.85	22.08	
9/12/2018 6:24	0.63	12.58	15.46	
9/12/2018 6:25	0.50	8.83	10.08	
9/12/2018 6:26	0.50	8.84	10.08	
9/12/2018 6:27	0.50	8.85	10.08	
9/12/2018 6:28	1.00	4.18	15.80	
9/12/2018 6:29	62.05	4.24	14.08	
9/12/2018 6:30	145.55	5.06	12.73	
9/12/2018 6:31	146.74	5.06	12.72	
9/12/2018 6:32	143.71	5.06	12.72	
9/12/2018 6:33	139.46	5.08	12.69	
9/12/2018 6:34	140.75	5.05	12.74	
9/12/2018 6:35	141.90	5.08	12.70	
9/12/2018 6:36	141.67	5.07	12.71	
9/12/2018 6:37	143.86	5.05	12.73	
9/12/2018 6:38	142.88	5.08	12.68	
9/12/2018 6:39	142.63	5.05	12.73	
9/12/2018 6:40	143.71	5.07	12.70	
9/12/2018 6:41	131.04	3.32	8.19	
9/12/2018 6:42	22.97	0.07	0.08	Remote Calibrations
9/12/2018 6:43	6.83	0.05	0.05	
9/12/2018 6:44	3.96	0.05	0.05	
9/12/2018 6:45	2.96	0.05	0.05	
9/12/2018 6:46	2.29	0.05	0.05	

Initial Calibration / Response Time

	O2 %dry	CO2 %dry	SO2 ppmvd	Date / Time
SO2 Upscale	0.04	3.32	9.73	9/12/2018 6:47
	0.03	8.88	168.58	9/12/2018 6:48
	0.03	8.90	191.29	9/12/2018 6:49
	0.03	8.92	195.01	9/12/2018 6:50
	0.03	8.93	197.26	9/12/2018 6:51
SO2 Downscale	0.03	6.16	185.51	9/12/2018 6:52
	0.05	0.10	36.10	9/12/2018 6:53
	0.05	0.07	8.76	9/12/2018 6:54
	0.05	0.05	5.19	9/12/2018 6:55
	0.05	0.05	3.58	9/12/2018 6:56
	0.05	0.05	2.75	9/12/2018 6:57
CO2 / O2 Upscale	3.38	2.95	2.19	9/12/2018 6:58
	9.96	8.72	1.69	9/12/2018 6:59
	9.98	8.75	1.50	9/12/2018 7:00
	9.99	8.76	1.50	9/12/2018 7:01
CO2 / O2 Downscale	6.78	5.90	1.50	9/12/2018 7:02
	0.07	0.09	1.58	9/12/2018 7:03
-	0.05	0.07	1.42	9/12/2018 7:04
	0.05	0.05	1.08	9/12/2018 7:05

Post Calibration Run 1

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 7:40	3.50	0.05	0.05
9/12/2018 7:41	58.54	6.76	0.03
9/12/2018 7:42	185.22	8.88	0.03
9/12/2018 7:43	194.56	8.90	0.03
9/12/2018 7:44	196.64	8.90	0.03
9/12/2018 7:45	124.74	8.78	7.15
9/12/2018 7:46	13.42	8.76	9.98
9/12/2018 7:47	5.92	8.77	9.99
9/12/2018 7:48	4.00	8.77	10.00

Post Calibration Run 2

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 8:24	4.74	0.05	0.05
9/12/2018 8:25	54.09	6.24	0.03
9/12/2018 8:26	185.65	8.87	0.03
9/12/2018 8:27	195.41	8.89	0.03
9/12/2018 8:28	196.89	8.90	0.03
9/12/2018 8:29	127.06	8.79	6.92
9/12/2018 8:30	13.54	8.77	9.98
9/12/2018 8:31	6.21	8.77	10.00

Post Calibration Run 3

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 9:05	3.50	0.05	0.05
9/12/2018 9:06	53.89	6.15	0.03
9/12/2018 9:07	183.74	8.88	0.03
9/12/2018 9:08	195.76	8.90	0.03
9/12/2018 9:09	197.72	8.91	0.03
9/12/2018 9:10	125.31	8.80	7.04
9/12/2018 9:11	13.00	8.78	9.98
9/12/2018 9:12	6.04	8.78	10.00

Post Calibration Run 4

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 9:45	3.42	0.05	0.05
9/12/2018 9:46	25.05	4.58	0.04
9/12/2018 9:47	173.09	8.86	0.03
9/12/2018 9:48	193.94	8.89	0.03
9/12/2018 9:49	196.33	8.90	0.03
9/12/2018 9:50	198.01	8.91	0.03
9/12/2018 9:51	123.73	8.78	7.42
9/12/2018 9:52	13.34	8.77	9.98

Post Calibration Run 5

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 10:29	4.42	0.05	0.05
9/12/2018 10:30	14.51	3.43	0.04
9/12/2018 10:31	162.16	8.85	0.03
9/12/2018 10:32	194.14	8.89	0.03
9/12/2018 10:33	196.31	8.90	0.03
9/12/2018 10:34	197.84	8.90	0.03
9/12/2018 10:35	137.85	8.80	6.44
9/12/2018 10:36	15.59	8.76	9.98
9/12/2018 10:37	6.73	8.76	9.98

Post Calibration Run 6

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 11:12	2.69	0.05	0.05
9/12/2018 11:13	19.35	4.20	0.04
9/12/2018 11:14	167.86	8.85	0.03
9/12/2018 11:15	193.81	8.88	0.03
9/12/2018 11:16	196.75	8.89	0.03
9/12/2018 11:17	128.08	8.78	7.30
9/12/2018 11:18	14.42	8.75	9.98
9/12/2018 11:19	6.50	8.76	9.98
9/12/2018 11:18	14.42	8.75	9.98

Post Calibration Run 7

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 11:50	3.42	0.05	0.05
9/12/2018 11:51	68.30	6.41	0.03
9/12/2018 11:52	188.05	8.88	0.03
9/12/2018 11:53	195.10	8.90	0.03
9/12/2018 11:54	197.60	8.90	0.03
9/12/2018 11:55	149.79	8.81	5.21
9/12/2018 11:56	15.29	8.76	9.97
9/12/2018 11:57	6.39	8.76	9.98

Post Calibration Run 8

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 12:30	3.33	0.05	0.05
9/12/2018 12:31	65.89	6.40	0.03
9/12/2018 12:32	187.64	8.85	0.03
9/12/2018 12:33	194.95	8.88	0.03
9/12/2018 12:34	197.22	8.88	0.03
9/12/2018 12:35	132.72	8.78	6.97
9/12/2018 12:36	15.93	8.75	9.96
9/12/2018 12:37	6.33	8.75	9.98

Post Calibration Run 9

Post Calibration Run 10

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 13:10	3.21	0.05	0.05
9/12/2018 13:11	60.85	6.39	0.03
9/12/2018 13:12	186.97	8.86	0.03
9/12/2018 13:13	195.52	8.88	0.03
9/12/2018 13:14	197.39	8.88	0.03
9/12/2018 13:15	125.13	8.78	7.06
9/12/2018 13:16	11.84	8.75	9.97
9/12/2018 13:17	5.23	8.75	9.98
9/12/2018 13:16	11.84	8.75	9.97

Date / Time	SO2 ppmvd	CO2 %dry	O2 %dry
9/12/2018 13:51	2.25	0.05	0.05
9/12/2018 13:52	45.49	5.20	0.03
9/12/2018 13:53	185.64	8.84	0.03
9/12/2018 13:54	194.45	8.87	0.03
9/12/2018 13:55	196.06	8.88	0.03
9/12/2018 13:56	119.00	8.75	7.48
9/12/2018 13:57	13.00	8.73	9.97
9/12/2018 13:58	5.17	8.73	9.98



Response Time Verification

Project Number:	305091	Test Date:	9/12/2018	
Customer:	Primary Energy	Facility:	Cokenergy Facility	
Unit Identification:	HRCC	Recorded By:	Gavin Lewis	
Sample Location:	Stack 201			

	Upscale Response Check						
	Cal Gas	Cal Gas	Start	Stable	Upscale Target	Time at	Response
Pollutant	Level	Conc.	Time	Response	Response	Target	Time
NO _X	=	-	-	-	-	-	-
SO ₂	Mid	201.80	6:47:00	197.26	187.40	6:49:00	0:02:00
CO	-	-	-	-	-	-	-
CO ₂	Mid	8.80	6:58:00	8.75	8.31	6:59:00	0:01:00
O ₂	Mid	9.98	6:58:00	9.98	9.48	6:59:00	0:01:00

Target Response is 95% of the Pre 1 System Response from the Upscale Bias Test

Response time is the difference between the two.

	Downscale Response Check							
	Cal Gas	Cal Gas Cal Gas Start Downscale Time at Response						
Pollutant	Level	Conc.	Time	Target Response	Target	Time		
NO _X	-	-	-	-	-	-		
SO ₂	Mid	201.80	6:52:00	10.09	6:54:00	0:02:00		
CO	-	-	-	-	-	-		
CO ₂	Mid	8.80	7:02:00	0.44	7:03:00	0:01:00		
O ₂	Mid	9.98	7:02:00	0.50	7:03:00	0:01:00		

Target Response is 0.5 ppm or 5.0 percent of the upscale gas concentration (whichever is less restrictive)

System Response Times				
	Response			
Pollutant	Time			
NO _X	0:00:00			
SO ₂	0:02:00			
СО	0:00:00			
CO ₂	0:01:00			
O ₂	0:01:00			

System response is the longer of the responses to zero and upscale gas.

Start time is the time at which gas is introduced upstream of the probe.

Time at target is the time at which the required target response is achieved.

ANALYZER INTERFERENCE RESPONSE TEST

USEPA Reference Method: _	<u>6C</u>	Analyzer Type:	<u>SO₂</u>	_
Analyzer Manufacturer:	TECO	Model Number:	43C	
Analyzer Manulacturer.		Model Number	430_	_
Date of Test:2/23/20	07			

Test		SO ₂ pp	Percent	
No.	Time	Method 6C	Method 6	Difference
1	1713-1743	92.73	92.02	0.77
2	1752-1822	214.16	209.55	2.20
3	1919-1949	734.74	735.69	-0.13
		To	tal Percent Difference	2.84

Total percent difference allowable is $\leq 7\%$.

Detailed interference response test data is maintained on file and is available upon request.

ANALYZER INTERFERENCE RESPONSE TEST

USEPA Reference Me	thod: <u>3A</u>	Analyzer Typ	oe: <u>CO</u> 2					
Analyzer Manufacture	r: <u>Servomex</u>	_ Model Numb	er: <u>1440</u>					
Analyzer Span:0-20%								
Test Performed by:	D. Grabowski	Date:	1/23/1998					

		Affect of Interference Gas on Analyzer		
Interference Gas	Interference Gas Concentration	Analyzer Response, ppm	Percent of Span	
NOx	498.0 ppm	-0.02	-0.10	
SO ₂	208.9 ppm	-0.02	-0.10	
CO	450.7 ppm	-0.02	-0.10	
CO ₂	10.06%			
O ₂	22.5%	-0.02	-0.10	
	Total Response (sum)	-0.04	-0.40	

Total affect on analyzer reading must be < 2% of analyzer span.

Detailed interference response test data is maintained on file and is available upon request.

ANALYZER INTERFERENCE RESPONSE TEST

USEPA Reference Metho	od: <u>3A</u>	_ Analyzer Type:	<u>O2</u>
Analyzer Manufacturer: _	Servomex	_ Model Number:	1440
Analyzer Span: <u>0-2</u>	<u> 5%</u>		
Test Performed bv:	D. Grabowski	Date:	1/23/1998

		Affect of Interfere Analyz	
Interference Gas	Interference Gas Concentration	Analyzer Response, ppm	Percent of Span
NOx	498.0 ppm	0.02	0.08
SO ₂	208.9 ppm	0.02	0.08
СО	450.7 ppm	0.00	0.00
CO ₂	10.06%	0.00	0.00
O ₂	22.5%		
	Total Response (sum)	0.04	0.16

Total affect on analyzer reading must be < 2% of analyzer span.

Detailed interference response test data is maintained on file and is available upon request.



Airgas USA, LLC 1601 Nicholas Blvd Elk Grove, IL 60007 Airgas.com

CERTIFICATE OF BATCH ANALYSIS

Grade of Product: CEM-CAL ZERO

Part Number: Cylinder Analyzed: NI CZ15A

CC119441

Laboratory: Analysis Date: Lot Number:

192 - Elk Grove (SAP) - IL

Jan 24, 2018 136-401112246-1 Reference Number:

136-401112246-1

Cylinder Volume: Cylinder Pressure:

142.0 CF 2000 PSIG

Valve Outlet:

580

EB0041701 Expiration Date: Jan 24, 2026

ANALYTICAL RESULTS

Component		Requested Purity		Certified Concentration	
NITROGEN		99.9995 %		99.9995 %	
CARBON DIOXIDE	<	1.0 PPM	<ldl< td=""><td>0.12 PPM</td><td></td></ldl<>	0.12 PPM	
NOx	<	0.1 PPM	<	0.1 PPM	
SO2	<	0.1 PPM	<	0.1 PPM	
THC	<	0.1 PPM	<ldl< td=""><td>0.04 PPM</td><td></td></ldl<>	0.04 PPM	
CARBON MONOXIDE	<	0.5 PPM	<ldl< td=""><td>0.12 PPM</td><td></td></ldl<>	0.12 PPM	

Permanent Notes: Airgas certifies that the contents of this cylinder meet the requirements of 40 CFR 72.2 Cylinders in Batch:

▼CC119441, CC128062, CC14648, CC214337, CC222236, CC346464, CC401454, CC450417, CC462173, EB0033993, EB0034727, EB0039072, EB0039355, EB0039363, EB0039426, EB0039718, EB0040297, EB0040334, EB0041697 EB0041701

Impurities verified against analytical standards traceable to NIST by weight and/or analysis.

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CERTIFICATE OF ANALYSIS **Grade of Product: EPA Protocol**

Part Number: Cylinder Number: E05NI90E15A8N35

Laboratory: PGVP Number: 124 - Chicago - IL

Gas Code:

SG9135799BAL

B12017 CO, CO2, NO, NOX, SO2, BALN

Expiration Date: Jun 13, 2025

Reference Number: 54-124622327-1

Cylinder Volume: Cylinder Pressure:

149.3 CF **2015 PSIG**

Valve Outlet: 660

Certification Date: Jun 13, 2017

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	200.0 PPM	197.7 PPM	G1	+/- 0.7% NIST Traceable	06/05/2017, 06/13/2017
CARBON MONOXIDE	200.0 PPM	193.9 PPM	G1	+/- 1.0% NIST Traceable	06/06/2017
NITRIC OXIDE	200.0 PPM	197.7 PPM	G1	+/- 0.7% NIST Traceable	06/05/2017, 06/13/2017
SULFUR DIOXIDE	200.0 PPM	201.8 PPM	G1	+/- 0.8% NIST Traceable	06/05/2017, 06/13/2017
CARBON DIOXIDE	9.000 %	8.946 %	G1	+/- 0.8% NIST Traceable	06/05/2017
NITROGEN	Balance				

Туре	Lot ID	Cylinder No	CALIBRATION STANDARDS Concentration	Uncertainty	Expiration Date
NTRM	14060114	CC432959	990.9 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Nov 18, 2019
PRM	12312	680179	10.01 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	Oct 15, 2014
NTRM	15060334	CC448443	241 PPM NITRIC OXIDE/NITROGEN	+/- 0.5%	Mar 30, 2021
NTRM	15060315	CC448252	241.0 PPM NITRIC OXIDE/NITROGEN	+/- 0.5%	Mar 30, 2021
GMIS	812201405	CC502159	4.861 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	Aug 12, 2017
NTRM	15060618	CC450443	248.1 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.6%	Dec 17, 2020
NTRM	12061356	CC361031	11.002 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 11, 2018
The SRM, I	PRM or RGM noted a	above is only in reference	e to the GMIS used in the assay and not part of the analysis.		

	ANALYTICAL EQUIPM	ENT
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 AMP0900100	FTIR	May 22, 2017
CO-1 HORIBA VIA-510 TKPPF7FG	NDIR	May 16, 2017
Nicolet 6700 AMP0900100	FTIR	May 22, 2017
Nicolet 6700 AMP0900100	FTIR	May 22, 2017
Nicolet 6700 AMP0900100	FTIR	May 22, 2017

Triad Data Available Upon Request

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Airgas Specialty Gases Airgas USA, LLC 12722 S. Wentworth Ave. Chicago, IL 60623 Airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number: Cylinder Number: Laboratory:

E05NI90E15A7762 SG9151303BAL

124 - Chicago (SAP) - IL

PGVP Number:

B12018

Gas Code:

CO,CO2,NO,NOX,SO2,BALN

Reference Number: 54-401083591-1

Cylinder Volume: Cylinder Pressure:

149.3 CF 2015 PSIG

Valve Outlet:

660

Certification Date:

Jan 03, 2018

Expiration Date: Jan 03, 2026

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concertantions are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocoi Method	Total Relative Uncertainty	Assay Dates
NOX	450.0 PPM	460.5 PPM	G1	+/- 0.7% NIST Traceable	12/22/2017, 01/03/2018
CARBON MONOXIDE	450.0 PPM	444.9 PPM	G1	+/- 0.9% NIST Traceable	12/27/2017
NITRIC OXIDE	450.0 PPM	460.5 PPM	G1	+/- 0.7% NIST Traceable	12/22/2017, 01/03/2018
SULFUR DIOXIDE	450.0 PPM	452.6 PPM	G1	+/- 1.0% NIST Traceable	12/22/2017, 01/03/2018
CARBON DIOXIDE	9.000 % Balance	8.985 %	G1	+/- 1.0% NIST Traceable	12/22/2017

CALIBRATION STANDARDS							
Туре	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date		
Type NTRM	14060114	CC432959	990.9 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Nov 18, 2019		
PRM	12367	APEX1099237	10.0 PPM NITROGEN DIOXIDE/AIR	+/- 1.5%	Jun 02, 2017		
NTRM	15060416	CC449822	496.8 PPM NITRIC OXIDE/NITROGEN	+/- 0.5%	May 04, 2021		
GMIS	1114201605	CC506716	4.995 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	Nov 14, 2019		
NTRM	16060130	CC437452	515.2 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.8%	Nov 16, 2021		
NTRM	13060614	CC413600	13.359 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	May 19, 2019		
The SRM	PRM or RGM noted :	above is only in reference to	the GMIS used in the assay and not part of the analysis.				

	ANALYTICAL EQUIPMENT	
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 AMP0900100	FTIR	Dec 21, 2017
CO-1 SIEMENS ULTRAMAT 6E N1J5700	NDIR	Dec 13, 2017
Nicolet 6700 AMP0900100	FTIR	Dec 21, 2017
Nicolet 6700 AMP0900100	FTIR	Dec 21, 2017
Nicolet 6700 AMP0900100	FTIR	Dec 21, 2017

Triad Data Available Upon Request



Approved for Release



Airgas Specialty Gases Airgas USA, LLC 12722 S. Wentworth Ave. Chicago, IL 60628 Airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:

E03NI81E15A37P2

Cylinder Number: Laboratory:

PGVP Number: Gas Code:

CC473136

124 - Chicago (SAP) - IL B12018

CO2, O2, BALN

Reference Number:

54-401204617-1

Cylinder Volume: Cylinder Pressure:

150.3 CF **2015 PSIG**

Valve Outlet: 590

Certification Date: May 17, 2018

Expiration Date: May 17, 2026

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals

		ANALYTICA	L RESULTS		
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON DIOXIDE	9.000 %	8.798 %	G1	+/- 0.8% NIST Traceable	05/17/2018
OXYGEN	10.00 %	9.976 %	G1	+/- 1.0% NIST Traceable	05/17/2018
NITROGEN	Balance				
		CALIBRATION	STANDARI	OS	

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	13060613	CC413592	13,359 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	May 09, 2019
NTRM	09061430	CC282477	22.53 % OXYGEN/NITROGEN	+/- 0.4%	Mar 08, 2019

ANALYTICAL EQUIPMENT				
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration		
CO2-1 HORIBA VIA-510 V1E3H7P5	NDIR	Apr 24, 2018		
O2-1 HORIBA MPA-510 3VUYL9NR	Paramagnetic	Apr 20, 2018		

Triad Data Available Upon Request



Approved for Release

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CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:

E03NI60E15A1069

Cylinder Number: Laboratory:

CC19838

PGVP Number: Gas Code:

ASG - Chicago - IL

B12015 CO2,O2,BALN Reference Number: 54-124493649-4

Cylinder Volume: Cylinder Pressure: 158.2 CF 2015 PSIG

Valve Outlet:

590

Certification Date:

May 15, 2015

May 11, 2015

Expiration Date: May 15, 2023

Paramagnetic

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

			ANALYTICA	AL RESULTS		
Compone	nt	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON [CARBON DIOXIDE 18.00 %		17.86 %	G1	+/- 1.1% NIST Traceable	05/15/2015
OXYGEN 22.00 %		22.00 %	22.01 %	G1	+/- 1.0% NIST Traceable	05/15/2015
NITROGEN Balance		Balance				
Les New Li			CALIBRATION	N STANDARDS	S	25 112 111 112
Type	Lot ID	Cylinder No	Concentration		Uncertainty	Expiration Date
NTRM	06120402	CC184369	19.66 % CARBON D	DIOXIDE/NITROGEN	+/- 0.5%	May 01, 2016
NTRM	06120204	CC195893	20.90 % OXYGEN/N	IITROGEN	+/- 0.4%	Dec 01, 2015
			ANALYTICAL	EQUIPMENT		
Instrume	nt/Make/Mod	el	Analytical Prin	ciple	Last Multipoint Calil	bration
CO2-1 HO	RIBA VIA-510 \	√1E3H7P5	NDIR		May 13, 2015	

Triad Data Available Upon Request

O2-1 HORIBA MPA-510 3VUYL9NR





	Metr	nod 2 Veloc	ity Traverse D	ata	17/2
Project No:	30509/ Tes	t Date(s):	9-12-18	Duct Dimensions:	
Company:	PRIMARY ENERGY OPE	erating Level:		Duct Area (ft ²):	254.469
Plant:		corded by:	RN	% CO2: (1)5.2() 5 1 (3) 61
Unit ID:	A	t ID:	888	% O2: (1) 12.6(3	1) (17 (3) (18
Sample Location:		t Coefficient Cp:	.840		714-1 (3) 14,8
D 1	- 726	-			

	Ad 11 not occincient op.	
Run No: / Time: 7/5 - 725	Run No: 3 Time: 800 - 808	Run No: 3 Time: \$40 - \$49
P _{bar} ("H _g): 79. 26 Static ("H ₂ O): -1	P _{bar} ("H _g): 29.28 Static ("H ₂ O): 7.0	P _{bar} ("H _g) 28. 38 Static ("H ₂ O): 7.0
Port-Point Δp "H ₂ O T_s (°F) a	Port-Point Δp "H ₂ O T _s (°F) a	Port-Point Δp "H ₂ O T _s (°F) a
3 1,1 287	1-1 1.0 284	1-1 10 285
3 1,1 38	3 1 3 259	2 1.1 285
3 1.1 287	3 1.2 289	126 11 6
9 1.0 286	9 1.2 283	9 95 255
2-1 1.0 287		
2-1 1.0 287	3-11,1 285	2-1 98 285
3 .0 257	3 1.1 383	2 .97 285
4 .95 386	3 1.1 384	3 1.0 255
1113 500	7 .75 987	4 .90 255
3-11.1 287	3-110 284	3-1 1.1 285
3 97 286	3-110 284	2 1.0 285
3 97 286	3 /0 283	
9 795 386	4 .84 283	3 1.0 234
		, , ,
4-1 1.2 287	4-1 1.2 184	4-1 1,1 275
3 1.3 287	3 1.1 284	3 1.1 389
3 1.2 287 3 1.2 287 4 1.1 287	3 1.1 289	3 1.5 240
9 1.1 281	9 1.1 289	4 .57 284
Avg.	Ave -	
Leak Check Pre: Post:	Leak Check Pre: Post: V	Avg.
	Loan Officer Fig. Prost. V	Leak Check Pre: Post:

				Moisture	Test Data				Field Balance ID:	
	Meter Vol	ΔΗ			Vacuum	Outlet	Meter ID:	Y=		
Time	(ft ³) or (L)	("H ₂ O)	Meter Temp. (°F)		o. (°F) ("Hg)	Temp (°F)	ΔH@I:		Standard Weight ID	
						I E E E A			Train Weight	
							Initial	((g)	
							Final		Nominal:	
							Gain	(Measured	
							Mois	sture Leak Check	Comments:	
Net		10					Pre	@ "Hg		
Avg.						FORE	Post	@ "Hg		



roject No: ompany: lant:	BRIMARY OF	ENERGY Operating Level:	9-12-18 RN	Duct Dimensions: Duct Area (ft²):	254,469 (5) 5.0 (6) 4.9 (5) 13.0(6) 13.
nit ID:	HRCC	Pitot ID:	888	% 002. (4) 13 00	(13.011)13
ample Location:	STACK &		- 840		3) 1210(6) 121
Run No: 4	Time: 920 - 9		Time:/000 -/010	Bun No. 6 T	ime:/045 - 1034
	Static ("H ₂ O):/		Static ("H ₂ O): -1, 0		atic ("H ₂ O): -/- 0
Port-Point Δp "H					
1- / / / C	20 T _s (°F)			Port-Point Δp "H₂O	
2 1.6		1-11.1	386	1-1 1.0	286
3 17	254	7 / /	286	2 1.0	256
4 5	754	4 100	326	3 1. 1	356
9 ,9 ,	247	9 .95	180	9 1.0	27.6
1 0	1 25-				
7-1,94	285	3-110		2-1 .95	285
9 40	525 525 525	2 1.0	256	2 198	242
3 10	254	3 1.0	322	3 /./	92¢
y .84	324	9 .58	782	9 .95	786
,					
-1 1.0	782	3-11.4		3-1.95	286
2 .98	188	ک ۱، ۵		01.0	386
3 193	1 385	3 1.0		3 1.1	286
4 18	1 282	4 .90	275	4 .89	286
1 1 1.1	284	7-11.0	286	4-1 1.1	285
2 1.1	342	2 1.1		2 1.1	255
? 1.1	725	7 1.6	286	7/1	282
4 .80	7\$5	4 .9.		4 97	285
					203
					+
					/
Avg.		Avg.		Avg.	/
Leak Check Pr	e: V Post: V	Leak Check Pr	re: V Post: V	Leak Check Pre:	Post: V
		Moisture Test Da	ta		Field Balance ID:
Meter '	Vol AH	Vacuu	um Outlet Meter ID:	: Y=	-
MICIOI		Vacut	in Outlet Interer ID.		

				Moisture	Test Data				Field Balance ID:
	Meter Vol	ΔΗ			Vacuum	Outlet	Meter ID:	Y=	
Time	(ft ³) or (L)	("H ₂ O)	Meter Te	emp. (°F)	("Hg)	Temp (°F)	ΔH@I:		Standard Weight ID:
								Train Weight	
							Initial	9	(g)
							Final	g	Nominal:
							Gain	g	Measured
							N	oisture Leak Check	Comments:
Net						Dept Land	Pre	@ "Hg	
Avg.							Post	@ "Hg	



CTRO			city Traverse D	ata		
Project No:	305091	Test Date(s):	9-12-18	Duct Dimensions:		
Company:	PRIMORY ENERGY	Operating Level:		Duct Area (ft ²):	254.4	168
Plant:	EAST CHICOGO	Recorded by:	RN	% CO2: (7) 4.9	(8)4.8	(9)47
Jnit ID:	HRCK	Pitot ID:	888	% O2: (7)/3.2	(x) 12 4	105,2
Sample Location:	STACK 201	Pitot Coefficient Cp:	.840		10/ 13 .71	CI
	Time: 1/35 - 1/33	Run No:	Time: 1205 - 1213	Run No: T	ime:/295 -	1257
P _{bar} ("H _g): 39. 3	Static ("H ₂ O):/	Pbar ("Hg): 29.28	Static ("H ₂ O): -1.0	P _{bar} ("H _g): 29-36 St		1.0
Port-Point Δp "H ₂ 0	O T _s (°F) a	Port-Point Δp "H ₂ 0	O T _s (°F) a	Port-Point Δp "H ₂ O		a
1-1 1.0	287	1-1 1.1	286	1-1 11	286	а.
2 1.0	257	3 11	246	3 11	286	
3 1.1	387	3 11	286	3 11	286	
9 .98	287	9 .95	356	9 .97	285	
			100		-	
2-1 1.0	287	2-1 97	286	3-11.0	28-5	
2 1.0	725	3 ,98	280	2 1,0	DEC	
3 1.0	227	7 . 27	286	3 97	256	-
09. 4	725	4 54	286	4.88	282	
	X '	/4/	5.4.6	1 .01	- COO >-	
3-1 1.0	JE7	3-1/1	286	3-1,97	25/	

09. 2	187 287	7.17	386	3.87	286
3 - 1 1.0 2 .95 3 .98 4 .83	JP7 317 314	3-1 /.1 2 /.0 3 /.0 4 .93	28.7 27.7 28.6 38.6	3-1.97	286 286 287
4-) 1.1 2 1.2 3 1.2 9 .8	286 286 286 286	4 . 9 \ 4 ~ 1 \ 1. 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	286 386 386 386	9 .92 9 1.1 3 1.2 3 1.2	216 216 216 216
, ,,,,	3	17.5	200	7.77	276

Field Balance ID:					Test Data	Moisture					
		Y=	Meter ID:	Outlet	Vacuum			ΔΗ	Meter Vol		
Standard Weight II			ΔH@I:	Temp (°F)	emp. (°F) ("Hg)		Meter Te	("H₂O)	(ft ³) or (L)	Time	
/		Train Weight			E E				1 1 11		
(g)	9		Initial								
Nominal:	g		Final								
Measured	g		Gain								
Comments:		eak Check	Moistu								
	"Hg	@	Pre							Net	
	"Hg	@	Post							Avg.	

Avg.

Leak Check Pre: _V

Avg.

Leak Check Pre:

Avg.

Leak Check Pre:



Method 2 Velocity Traverse Data

Project No: Company:	30509) PRIMARY OF STACK) TIME: 1305 173	Test Date	e(s):	9-12	-5	-	nsions:	750	1/0
Plant:	CART 2112	ACO Becorded	bv:	RN		Duct Area % CO ₂ ;	4.7	254,4	6]
Unit ID:	110-1	Pitot ID:	by.	640			7.1		
Sample Location:	TIKE C	Pitot ID:	fficient C-	848	10	% O ₂ :	13.5)	
Sample Location.	JANCK J	Pilot Coe	micient Cp:	. 84	7.0	-			
		Run No:	T	ime:	-	Run No:_	Tin	ne:	
Pbar ("Hg):25.76 S	tatic ("H ₂ O): -/, O	P _{bar} ("H _o)	: St	atic ("H ₂ O): _			Sta		
Port-Point Δp "H ₂ C			nt Δp "H ₂ O		a		Δp "H ₂ O		a
1-1 10	387			15(1)	-	T OIL T OILL	Др 1120	's(')	a
2 16	247								
3 70	287		+			-	-		-
4 95	787								
/ 1.75	001								
2-1.98	d\$7					-			
2 54	157								
7 58	287	- v	4	-		-			
1 .78									
7 .85	287								
3-1 95	287								
7 7	757								
3 .98	247								
7 .98	287								
4 . 82	187								
//									
4-1 1.1	287								
2 1.1	287								
7 1.3	136								
4 .90	27/								
									-
			1				-		
							-		
				-					
Avg.		Avg.				Avg.			
Leak Check Pre:	Post:	Leak	Check Pre:	Post:		Leak (Check Pre: _	Post: _	
		Maiatas	T1 D-1-					15.	
Motor Va	I AU I	Moistur	e Test Data	1 0	I			Field Balanc	e ID:
Meter Vo		-1 T '05'	Vacuum	Outlet	Meter ID:	Υ=			
Time (ft ³) or (L) ("H ₂ O) M	eter Temp. (°F)	("Hg)	Temp (°F)	ΔH@I:			Standard W	eight ID:
						Train Weight			
					Initial		g		(g)
					Final		g	Nominal:	
					Gain		g	Measured -	
					111111111				
					N	loisture Leak C	heck	Comments:	
Net					Pre		@ "Hg		
Avg.		THE RESIDENCE OF THE PARTY OF T			Post		@ "Ha		

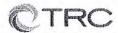


				Мо	isture T	est Run	Data				
Company	Pain	ARY ENT	RLY	Project #:	30.	5091			Console Operator:	RN	
Plant	Enst .	(H11060)	,						Console ID:	F44	
Unit ID	MATTE	HILLOGO THRLK ACK 201		oet Pun #-	1	2-18		-	Mater V.	.997	
Lacation	17	2/1 201			9-1-	2-10	***************************************	-			
Location		were	. 16						Orifice ΔH@i:	1.616	
Unit C	perating Mode			Baron	metric Pres	sure ("Hg):	29.20	Ó			20): -). 0
			Dry G	as Meter					Pre Leak Check:	_0	e 12
Port & Point	Clock	Volume	Pressure	Inlet	Outlet	Vacuum	Impinger Outlet	Stack	Post Leak Check:	0	0 /2
ID	Time	Liters / Cubic Feet	("H ₂ O)	(°F)	(°F)	("Hg)	(°F)	(°F)	, ost Leak Offeck;		y
1-1	7.5	279.0	20	70	70		59	2\$C		Moisture Data	1
	720	283.76		70	70	. 1	60	286	Impinger	Tare wt.	Final wt.
	725	286.56	2.0	78	70)	60	226	ID	(grams)	(grams)
	730	290.34	2.0	71	70	1	61	580		3108.3	3182.6
	135	294.01	9.6	72	7)	1		286			
	740	297.77	2.0	79	71	1	62	286			
	746	301.426							6 d		
				-					2		
									1 13		
						-					
-	-	-								- Net:	74.3
	2.3.77			-							
	-				-					~	1-
		 							Pump/Orifice* Leak Check:	Pass	Fail / N/A
		-							Leak Officer.		
							-				
											is (%v/v dry)
							-			O ₂	CO ₂
					-				-		
		-			-		-		-		-
								-			
						-			Average:		
					-		-		1		
			7		14				Comments:		-
							-				
							-				
									1		
						-			1		
		-			1		-		1	eduals where	
	Net Volume								*Required fo	r ALT-009 Meter Ca	libration Checks
	net volume.		THE REAL PROPERTY.		HEATEN						
		Average:					新聞教養教		J		





				Мо	isture T	est Run	Data					
Company:	PRIMA	RY ENERGY	1	Project #:	305	5091			Console Operator:	RN		
		ChicaGO		st Method:					Console ID:			
		<	_		2				Console ID.	,997		
Officio.	Cara	4 201		est Hun #:	9~1) 10			Meter Y :_	1176		
Location:	JANE	k 201	. Te	est Date(s):	1~1	2-18			Orifice ΔH@i:	1.6/2		
Unit O	perating Mode:			Baror	netric Pres	sure ("Hg):	29.28	7	Stati	c Pressure ("H	20): -1.0	
			Dry G	as Meter					Pre Leak Check:	Ò	· 10	
Port &	Clask	Volume					Impinger			1/4/4	14	
Point ID	Clock	Liters / Cubic Feet	Pressure ("H ₂ O)	Inlet (°F)	Outlet	Vacuum	Outlet		Post Leak Check:	0	e /()	
1-1	800	301.80		72	(°F)	("Hg)	(°F)	(°F)		101112224		1
-	805	305.59	3.0	73	73		28	742		Moisture Data		
		309.40	2.0	76	74	3	28		Impinger	Tare wt.	Final wt.	
	812	313.14		79	77	3	3 '	922	ID	(grams)	(grams)	
	\$17		3.0		75		60	747		3336.7	31457	MI
	831	316.88	2.0	77		J	60	72.7			3415.2	10/3 KE
	821	320,60	2.0	78	75	2	61	197				INE
	X30	324.31										
										Net	70 6	
		-								- Net:	1813	i
								-				
		-							1	6		E
									Pump/Orifice* Leak Check:	Pass	Fail / N/A	
						-			Leak Check:	$\overline{}$		
										Gas Analys	sis (%v/v dry)	
										O ₂	CO ₂	
									1 1			
									1 1			
									1			
	7							-,	(2000)			0
									Average:			l
•								*	5 - 6 - 7 - 7			
									Comments:			
					-				1 1			
									1		1	
										*		
									*Required for	ALT-009 Meter Ca	libration Checks	
	Net Volume:			N. Salah								P
		Average:			11.78							
				and the second second second		THE REPORT OF THE PARTY OF THE						



				Мо	isture T	est Run	Data				
Company:	prink	ory emerc	Y	Project #:	305	191			Console Operator:	RN	
Plant:	EDST	CHICAGO	Tes	st Method:	4				Console ID:	E44	
Unit ID:	HRCS		т	est Run #:	3	-18				997	
l ocation:	STANK	201	To	ot Doto(s).	9-12	-18			Orifice AH@i:		
Location.	U / J / C/C	- 00.	ie						Orifice AH@i:	1/6/2	•
Unit Op	erating Mode:				metric Pres	sure ("Hg):	J9.2	F			120): -1.
Port &			Dry Ga	as Meter					Pre Leak Check:	0	@ 12
Point ID	Clock Time	Volume Liters / Cubic Feet	Pressure ("H ₂ O)	Inlet (°F)	Outlet (°F)	Vacuum ("Hg)	Impinger Outlet (°F)	Stack (°F)	Post Leak Check:	0	· 12
1-1	P40	304.50	2.6	80	78	1	60	787		Moisture Dat	a
	845	392.31	2.6	\$2 \$2	78	. 1	60	186	Impinger	Tare wt.	Final wt.
	750	335.08	2.0	1	78	1	63	982	1D	(grams)	(grams)
	500	335-89	0.0	85	78	1	67	582			3256,5
	500	339.60	2.0	24	79	1	63	782			
	505	343.34	J. B	PY	79	1	63	275			
	770	347.04)									
J											
										- Net	74.8
									Pump/Orifice* Leak Check:	Pass	Fail / N/A
										_	
		15								Gas Analy	sis (%v/v dry)
										O ₂	CO ₂
											302
			1,								
				,					Average:		
•				-							
									Comments:		
									4 7		
	44		N. C. Oliver	A CONTRACTOR OF THE PARTY OF TH	TAX SEC NO.		National Control		*Required for	ALT-009 Meter C	alibration Checks
	Net Volume:		EDECADE CONTRACTO	BURLING STATE	自然的现在可能被	THE PARTY NAMED IN	BOOK SALES	A PROPERTY OF THE PARTY OF			



	,			Mo	isture T	est Run	Data				
	14	24 ENERGY	ex Eng	jely	2.4	- 101				امما	
npany:	202	071 1111	CAST	Project #:	30	>04/			Console Operator:	Ry.	-
Plant:	PRAMA	exterior	Spice	st Method:	4				Console ID:	EYY	
nit ID:	642	1-162 C		Test Run #:	4		•		Meter Y :	.997	
ation:	STA	ack 241	Te	est Date(s):	9-	12-13	7		Orifice ΔH@i:	1.676	0
Jnit Op	perating Mode:			Baro	metric Pres	sure ("Hg):	29.2	7	Stati	c Pressure ("F	H ₂ O):/、
			Dry G	as Meter		_	1		Pre Leak Check:	0	e 12
rt &							Impinger			^	1)
int D	Clock Time	Volume Liters / Cubic Feet	Pressure ("H₂O)	Inlet (°F)	Outlet (°F)	Vacuum	Outlet (°F)	Stack	Post Leak Check:	0	@ / \
-1	930	347.3	2.0	81	80	("Hg)	61	285		Moisture Dat	
	925	351.15	2.6	83	80	2	61	1	Impinger	Tare wt.	Final w
	330	355.03	2.0	83	D	9	22		ID	(grams)	(grams
	235	328.89	2.0	83	81	Š	67		1	3395.4	3469.
	940	360.76	2.0	84	51	٥	63				
	742	366.60	2.9	84	81	9	63	V			
	450	370.431						277		13	1
_								-	-		
		-	-								711 -
									+	- Net	74.
_									-		
									Pump/Orifice*	1	
									Leak Check:	Pass	Fail / N/A
		1							1		
]		
						2] [Gas Analy	sis (%v/v dry
										O ₂	CO2
] [
]]		
	-								Average:		
-											
		-							-		
_									-		
			-						Comments:		
							-				
				-					1 1		
									1		
									-		
	-								1	Tel	
									1		
					715				1	ALT-009 Meter C	



				Mo	oisture T	est Run	Data				
ompany:	PRIMAR	Y ENERGY		Project #	3	5091			Console Operator:	PN	
Plant:	CAST	(DICALO	Te	st Method	. 4				Console ID:		
Unit ID:	HRC	<	Test Method: 4 Test Run #: 5 Test Date(s): 9 - 12 - 18							.957	-
Ollicio.		k 201		est Hun #		17 -19	?				
Location:	1120	16 301	, Te						Orifice AH@i:	1.676	-
Unit O	perating Mode:			Baro	metric Pres	sure ("Hg):	29.2	P	Stati	ic Pressure ("H	0):-/. 5
			7200				1			-	100
Port &			Dry G	as Meter			Impinger		Pre Leak Check:	0	13
Point	Clock	Volume	Pressure	Inlet	Outlet	Vacuum	Outlet	Stack	Post Leak Check:	0	· 13
ID	Time	Liters / Cubic Feet		(°F)	(°F)	("Hg)	(°F)	928 (%E)			
-1	1000	370,70	2.8	83	81	2	59	990		Moisture Data	1
	1005	37450	2.0	83	71	9	60		Impinger	Tare wt.	Final wt.
_	1010	382.06	3.0	84	81	3	60		ID	(grams)	(grams)
		382 82		88	80	<u>a</u>	61			31362	321145
	1020	X0 ()	2.0	82	80	2	61		-		
	1070	365 5111	×-0	81	90	0	62	V	-		
	7030	3/3-34/	-						1		
										- Net:	74.
										1101.	
									Pump/Orifice*		- 10 A All 1
									Leak Check:	Pass	Fail / N/A
	4										
										Gas Analys	is (%v/v dry)
										O ₂	CO2
						-			4		
									1		
4								-			
					-	-			Average:		
•						-			1		
					-	-		-	4		
						-			4		
						-			+		
-			-						Comments:		
-			-						-		
									1		
					-				1 1		
			*						1		
								-	1		
									1		
									*Beguired fo	or Al T-000 Moto- O-	liberation Ot
	Net Volume:			(S)(4, 48)					L required to	or ALT-009 Meter Ca	uluration Checks
		Average	THE PROPERTY OF			SOLVEN SOLVEN			92		



	1/2				oisture T						
Company	PRIMAR	y GNERG	y	Project #	30.	509/	1		Console Operator:	RN	
Plant	CAST	CHICAGO	Te	st Method	: 4				0	E 44	
Unit ID	HRC			Test Run #	6			Meter Y: 997			
Location	STACK	201	т.	net Data(e)	9-	17-1	V	•	meter 1.	1.678	
Looding		- 201	- ''						Orifice AH@i:	1.6/2	9
Unit C	perating Mode:		-	Baro	metric Pres	sure ("Hg):	29.3	7	Stat	ic Pressure ("H	20): -/.
	1		Dry G	as Meter					Pre Leak Check:	6	o /C
Port &	Clock	Volume	Pressure	Inlet	Outlet	Vacuum	Impinger Outlet	Stack	Daat I aali Obaali	^	- 10
ID	IOY Time	Liters / Cubic Feet	A CONTRACTOR OF THE PARTY OF TH	(°F)		("Hg)	(°F)	(°F)	Post Leak Check:		e / U
1045	393.50	313.20	2.0		79	2	60	287		Moisture Data	
	1010	397.39	2.0	81	20	. 2	66	1	Impinger	Tare wt.	Final w
	1456	401-20	2.0	83	80	9	61		ID	(grams)	
	1140	40r. 09	2.0	23	79		62			33845	3458.
	1105	409,00		87	75	3	12			330,0	71201
	1110	412.9	3.0	52	74	2	63	V	134	1772	
	1115	416.705		9						1 = 1 = 1	
		1 1 1 1 1 1 1									
	-0-										
							100			- Net:	73.8
										· Net:	13.6
							-		Pump/Orifice*	1	_
				-					Leak Check:	Pass /	ail / N/A
- 1.3 ()	/										
					7						
1										Gas Analysi	- /0/ - 1 - 1
1										Gas Analysi O ₂	
										02	CO ₂
						-					-
											-
-									Average:		
·											
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Attachment C

Preventative Maintenance and Operation (PMO) Plan

Indiana Harbor Coke Company, L.P.

PREVENTIVE MAINTENANCE
AND OPERATION PLAN
(PMO Plan)
January 2019

List of Acronyms

CAP Compliance Assurance Plan

CCR Central Control Room

C/S Coke Side

CUI Corrosion Under Insulation

DCS Distributed Control System

dP Differential Pressure

EAM Enterprise Asset Management

ETS Emission Tracking Software

H₂O Water

HRSG Heat Recovery Steam Generator

IDEM Indiana Department of Environmental Management

IHCC Indiana Harbor Coke Company, L.P.

IHCC Air Permit Title V Permit 089-36826-00382 and its subsequent revisions, renewals, and

any modifications

IR Infrared Thermography

MOC Management of Change

MWP Maintenance Work Process

NESHAP National Emission Standards for Hazardous Air Pollutants

O₂ Oxygen

PCM Pushing/Charging Machine

PM Preventive Maintenance

PM Emissions Particulate Matter emissions

P/S Push Side

PMO Plan Preventive Maintenance and Operation Plan

RCFA Root Cause Failure Analysis

SO₂ Sulfur Dioxide

USEPA United States Environmental Protection Agency

40 CFR Title 40 of the Code of Federal Regulations

VM Volatile Matter

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ATTACHMENT G - METHOD 9 INSPECTION FORM

ATTACHMENT H – IHCC COKE OVEN LEAK RECORD

ATTACHMENT I - IHCC COKE OVEN CHECKLIST AND COKE OVEN LEAK RECORD SHEET

ATTACHMENT J - ENVIRONMENTAL: MANAGEMENT OF CHANGE

ATTACHMENT K - PMO PLAN DOCUMENT CONTROL FORM

I. INTRODUCTION

This document serves as the Preventive Maintenance and Operation Plan (PMO Plan) for Indiana Harbor Coke Company, L.P. (IHCC), which has been prepared to ensure compliance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) and with Title V Operating Permit No. 089-36826-00382 and its subsequent revisions, renewals, and any modifications (IHCC Air Permit).

The PMO Plan has been developed pursuant to a Consent Decree with the United States and the State of Indiana, which was entered in the United States District Court for the Northern District of Indiana with an Effective Date of 10/25/2018 (Consent Decree).

All employees of IHCC, as well as contractors and subcontractors, shall follow the guidelines detailed in this plan.

II. PURPOSE OF THE PMO PLAN

IHCC's PMO Plan shall have the goal of minimizing Coke Oven Leaks through the proper operation and integrity of the facility's oven maintenance program as well as compliance with limits and requirements established in the Consent Decree. The purposes of the PMO plan are to:

- 1. Set forth a plan to implement enhanced maintenance and operation of IHCC's Rebuilt Ovens.
- 2. Provide that IHCC operates and maintains its control systems, affected sources, and monitoring equipment in a manner consistent with safety and with good air pollution control practices and minimization of emissions as required by the Consent Decree and the IHCC Air Permit, and regulations promulgated under the CAA.
- 3. Provide procedures for maintenance and operation in order to minimize emissions at the facility from Coke Oven Leaks.

IHCC shall comply with the PMO Plan at all times.

III. DEFINITIONS

- a) Definitions used in this PMO Plan that are specific to individual steps of coke production:
 - 1. <u>Battery</u>: IHCC has four batteries denoted A, B, C, and D; Each Battery includes multiple banks of 16 or 17 Ovens.
 - 2. <u>Bypass Vent Stack</u>: each vent stack located between the Coke Oven battery common tunnel and each Heat Recovery Steam Generator (HRSG).
 - 3. <u>Bypass Venting</u>: the redirection of a flue gas stream through the Bypass Vent Stacks directly to the atmosphere for any reason. Bypass Venting through a Bypass Vent Stack commences when a Bypass Vent Stack lid opens and continues until the Bypass Vent Stack lid closes.
 - 4. <u>Bypass Venting Incident</u>: all Bypass Venting that results in an exceedance of the Consent Decree's or the IHCC Air Permit's 19% daily bypass venting limit.
 - 5. <u>Bypass Venting Percentage</u>: the venting as tracked through the Emissions Tracking System (ETS), which tracks the percentage of Bypass Venting in daily and 3-hour block averages.
 - 6. <u>Coal Sulfur Content or Sulfur Content</u>: the elemental composition of sulfur in coal by weight as determined by methods approved in the IHCC Air Permit.
 - 7. <u>Coke Oven or Oven</u>: any heat recovery oven at Batteries A, B, C, or D.
 - 8. <u>Coke Oven Door Leak</u>: emissions during a Coking Cycle from a Coke Oven door that do not comply with Title 40 of the Code of Federal Regulations (40 CFR) §63.303(b)(1) or (c)(2).
 - 9. Coke Oven Leak or Leak: any Coke Oven Door Leak or Crown Opacity. Visible emissions that occur during a Lightning Stand-Down shall not be considered a Coke Oven Leak for purposes of the PMO Plan provided the visible emissions do not continue for longer than 15, 30, or 45 minutes, as applicable, after the Lightning Stand-Down is over. The actions required in response to a Coke Oven Leak, per the Consent Decree, begin January 1, 2019 and continue until the Consent Decree is terminated.
 - 10. Coke Oven Leak Root Cause Failure Analysis (RCFA) Trigger Level or RCFA Trigger Level: is either (a) when an oven experiences Coke Oven Leaks in two consecutive Coking Cycles, or (b) when an oven experiences Coke Oven Leaks in four or more Coking Cycles in a calendar month. Leaks that result from operator error (e.g., failure to open dampers, close sole flues when a leak is detected, etc.) shall not count in determining whether the Root Cause Failure Analysis (RCFA) Trigger Level has been reached.
 - 11. <u>Coke Oven Root Cause Failure Analysis or Coke Oven RCFA</u>: an assessment conducted to determine the primary cause and any contributing cause of triggering a Coke Oven Leak RCFA Trigger Level.
 - 12. <u>Coking</u>: the process where coal that has been placed in a Coke Oven undergoes destructive distillation to produce coke.
 - 13. <u>Coking Cycle</u>: the time that begins after the Oven has been charged with coal and both doors have been placed on the Oven and ends when a door is removed.

- 14. Coking Operations: IHCC's operation of Coke Ovens and other coking equipment.
- 15. <u>Crown Opacity</u>: emissions during a Coking Cycle from a Coke Oven crown that causes at least 20% opacity for three (3) minutes using USEPA Method 9. IHCC has the option to use USEPA Alternative Method 082 in lieu of USEPA Method 9.
- 16. <u>Distributed Control System (DCS)</u>: a computerized system that provides visibility and control to various measurements and aspects of the IHCC facility.
- 17. <u>Lightning Stand-Down</u>: when lightning is within a ten (10) mile radius of the Facility as determined by a third-party weather tracking service, and exposed outdoor work must be stopped in accordance with IHCC's severe weather safety policy. A Lightning Stand-Down is over when an "all-clear" announcement is made after a thirty (30) minute period of no strikes within the ten (10) mile clearance radius in accordance with IHCC's severe weather safety policy.
- 18. Oven Rebuilds: repairing Ovens by removal and replacement of the Oven floor and sole flues and repair of Oven wall cracks.
- 19. <u>Heat Recovery Steam Generator (HRSG)</u>: an energy recovery heat exchanger that recovers heat from a hot gas stream for the purpose of steam generation.
- 20. Rebuilt Ovens: Ovens that have undergone Oven Rebuilds.
- 21. <u>Structural Issues:</u> issues involving the Oven structure (cracks or other damage to walls, floors, or flues; problems with Oven sealing; and/or other problems associated with the Oven structure) that cause Coke Oven Leaks.
- b) Definitions used in this PMO Plan to describe IHCC's systems and processes:
 - 1. <u>Emission Tracking Software (ETS)</u>: the emissions tracking software that is used to track bypass venting (i.e., record the percentage of bypass venting in daily and 3-hour block averages) and main stack emissions and bypass vent stack emissions (SO₂, PM, and lead).
 - 2. <u>Enterprise Asset Management System (EAM)</u>: a computerized asset maintenance system that provides asset management, work management, materials management, and purchasing capabilities to help IHCC maximize productivity and extend the life of its assets. IHCC currently uses IBM MAXIMO ("MAXIMO") as the EAM.
 - 3. <u>Maintenance Work Process (MWP)</u>: the process used at IHCC to efficiently execute maintenance activities on process equipment and facilities.

IV. PREVENTIVE MAINTENANCE

Preventive Maintenance (PM) is the performance of maintenance tasks that either 1) repair or service emission units in accordance with good engineering and air pollution control practices, 2) extend the life of an asset, or 3) detect a potential for unplanned failure. PM is managed within the Enterprise Asset Management (EAM) system. A PM record is a plan to perform periodic work on an asset or group of assets. The EAM system automatically generates certain PM Work Orders at a predetermined time interval to provide a method in which to execute the work in the field. PM tasks can be categorized as safety or environmental critical, which carry a higher scheduling priority than other PMs within the Maintenance Work Process (MWP).

All PMs are housed in the EAM system as described here. PM records contain the relevant information for conducting the PM and ensuring that the objectives described above are met. This may include, but is not limited to, the following: a job plan, the craft of group assigned to execute the task, the frequency for conducting the PM, a list of specific tasks that should be performed, a list of specific parameters that should be met, a list of equipment or tools necessary to conduct the PM, requirements for data collection or observations, and/or the location of the equipment to be serviced. PMs are updated as equipment or needs change or additional PMs are identified. Since the most current and up to date list of all PMs resides in the EAM system, a list is not included in this PMO Plan. An example list of environmental critical PMs is included as Attachment A – Example List of Environmental Critical PM. The current and up-to-date list of PMs is maintained in the EAM system; this PMO Plan will not be updated to reflect changes to the Environmental Critical PM list.

A completed PM record contains the statement of work (job plan), the name of the person or group who executed the PM task, and the date the PM was performed. Results of PM inspections may be reviewed for technical content and potential follow up actions by the Maintenance Planner. Paper copies of completed environmental critical PM work orders may be routed to the plant Environmental Manager or Environmental Representative for review. The work order closure process flow is included as Attachment B – PM Workflow Process.

V. QUARTERLY INTERNAL AND EXTERNAL OVEN HEALTH INSPECTIONS (CONSENT DECREE IV.D.23.a.i.)

Quarterly internal and external oven health inspections will be conducted by trained inspectors to assess the current state of each oven, following documented oven inspection procedures and recommended repairs. Employee training for the quarterly inspections is described in Section X.

The oven sole flue, oven mechanical, oven chamber, and oven refractory exterior, or crown area, inspections will be conducted, internally, on a quarterly basis following documented procedures, as described in Section V of this Plan and in accordance with checklists included as Attachments C, D, and E. Summary forms are maintained that documents any findings, which also include findings from additional inspections including the Infrared Thermography (IR) Scan, Oven Door Inspections, Damper Block Inspections, and Declinker Inspections. These findings will be reviewed by SunCoke personnel to determine whether action is required for each particular finding or whether a finding will simply continue to be monitored. Personnel designated to monitor and assess oven health will hold regular meetings to discuss changes to oven inspection procedures and scheduling. Any future revisions to the following summarized inspection procedures are documented within their respective revision logs.

General size definitions for various oven conditions identified in oven health inspections are summarized in Table 1. Repairs are also dependent on the location of the erosion and cracks within the coke oven. This table is for example purposes only.

Oven Condition Description	Size Definition	Repairs
· Minimum or Small	$\cdot \frac{1}{4}$ " – $\frac{1}{2}$ " wide; no gas flow leaking	· Silica weld the crack
Erosion/Cracks	through crack	- Silica weld the clack
· Moderate Erosion/Cracks	· ½" – 1" wide; small gas flow	· Silica weld the crack
· Moderate Erosion/Cracks	leaking through crack	· Silica weld the crack
		· Silica weld the crack to allow
· Severe Erosion/Cracks	· Large enough for material	for planning of rebricking of
Severe Erosion/ Cracks	(coal/coke) to pass through crack	wall, then rebrick cracked
		area.
· Debris in Sole Flue	· Range from 0%, 25%, 75%, and	· Cleanout blockage >50%,
· Debits iii 30ie Flue	100% blockage	weather permitting

Table 1. Summary of General Oven Condition Erosion/Crack/Blockage Size Definitions

A. Sole Flue Inspection

The sole flue inspection program is designed to evaluate the condition of the sole flue chambers at IHCC. The sole flue chambers are responsible for containing and promoting the combustion process as the volatile matter (VM) begins to burn off in the oven during the coking process. These chambers are comprised of a series of expansion joints and various silica brick shapes that come together to form four (4) gas passageways. These gas passageways carry the flue gas to the uptake portions of the oven and promote floor heating to assist in the coking process.

The sole flue inspection is completed on both the push and coke sides of the ovens where either a damper or an inspection brick is present. The inspection brick of the desired oven is removed to begin the inspection. The conditions observed during the inspection are recorded for further analysis to

determine whether any repairs may be necessary or whether there are items that require continued monitoring. Findings are summarized in a form, as Attachment C – Oven Health Inspection Summary Form – Sole Flue. The following is an example list of conditions that are checked during the inspection:

- Pinched/Slipped/Flattened Rings or Arches
- Drops or Debris in Sole Flue (i.e. Fallen Brick)
- Sole Flue Wall Damage (i.e. Cracks)
- Sole Flue Melt/Overheating
- Cracks and Signs of Air Leakage on the Sole Flue Floor (i.e. Black Lines)
- Previous Silica Weld Repair Condition
- Broken Sole Flue Damper Support and/or Damage

Repair designations and suggestions for repair timing for identified sole flue damage resulting from this inspection are summarized below. All sole flue repairs shall be completed as soon as practicable. If any sole flue repair is not completed within 120 days, then IHCC shall document the reasons for the delay.

- Minimum a small crack, nearly superficial and will be monitored for future expansion. Little to no debris in sole flue.
- Moderate the crack has observed gas passing through the crack and now requires action.
 Welding is recommended. Debris blocks sole flue approximately 50%, clean out should be reviewed.
- Severe The crack is allowing material to pass through and repairs are needed as soon as practical. Debris in sole flue requires clean out.

B. Mechanical Inspection

The mechanical inspection program is a system designed to capture damage to key mechanical components of IHCC's coke ovens, summarized below. These components help maintain the refractory integrity of the oven during thermal cycling and ensure that proper tension and sealing is maintained for optimal oven performance.

I. Visible Components

The mechanical inspection is completed on both the push and coke sides of the ovens, as well as top and bottoms of the ovens. The entire coke oven, including but not limited to the following equipment, will be checked during the inspection:

- Buckstays
- Tie Rods (Both Top and Bottom) spring assemblies
- Sill Beams
- Lintels

- Doors
- Jamb Plates
- Battery Benches
- Oven Door
- Sole Flue End Wall Beam
- Sole Flue Damper Pipe

Conditions observed during the inspection, summarized in Table 2 below, are recorded for further analysis to determine whether any repairs may be necessary or whether there are items that require continued monitoring. This table is for example purposes only. Findings, such as Minimum, Moderate, and Severe repair requirements, are summarized in a form, as Attachment D – Oven Health Inspection Summary Form – Mechanical.

- II. Non-visible components
- Downcomers and upcomers
- Underneath walls

Non-visible portions of the oven, which include downcomers, upcomers, and underneath the walls, cannot be inspected directly. However, issues related to these areas may be inferred based on damage in visible areas of the oven, such as damage to adjacent airspace beams next to the wall or cracks in the wall of the oven. Conditions observed during the monitoring of visible components will be recorded and analyzed to determine whether maintenance or repairs on non-visible components will be necessary following inspection or at a later date.

Table 2. Summary of Conditions in Mechanical Oven Health Inspection

Component List	What to Check	Condition(s)
(Items and equipment to be	(Detailed list of what must be	(List of conditional states of
checked under each task)	completed under each task)	deterioration)
	• Тор	Twisted, bowed, plumb, machinery contact
· Buckstay	· Middle	 Gaps between refractory wall and buckstay
	· Bottom	Attached to foundation, corrosion
	· Spring	· Compressed/relaxed spring, missing spring
Tie Rod Assembly (top and bottom) (left and right)	· Nut/bridle	Broken spring/tie rod, 2010 design or original
	· Nut/bilule	 Bent or twisted spring assembly
	· Clean for proper air flow	· Air space open

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· 8" or 12" support beam (between slab and pad)	· Original position or spacing	Structural integrity and corrosion
	· Deteriorated/structural integrity	· Warped, thinned, elastic collapse
· Lintel	· Signs of overheating – discoloration, flame during charge	 Verify brackets are installed to secure lintel
	· Deterioration/gaps in refractory	 Burnt, leaking – air infiltration
	· Correct position	· Lintel dropped or uneven
· Jambs	· Check for separation between	· Deterioration, spalling
	refractory and jamb plate	
	 Separation between jamb and buckstay 	· Sill plate out of position
	· Check for overheating	· Material is warped
	· Bottom sill plate	· Sill plate out of position
	· Broken/cracked jamb	· Deterioration
· End wall	· Check structural for alignment	· Broken, cracked refractory
	Check for brick displacement or deformity	· Bulging sections of brick

C. Oven Chamber Inspection

The oven chamber inspection program is designed to evaluate the condition of the coking chamber at IHCC. The coking chamber is responsible for holding the coal charge, sustaining and containing the phase change, and releasing H_2O and VM from the coal bed. The inspection process is based on the use of photography and the comparison of photos between inspections. The oven chamber inspection is completed by taking photographs of the oven, after it has been pushed out, from the pusher side.

The following lists conditions that will be checked for during the inspection, reviewed in the photographs, and are triggers for repairs:

- Wall Cracks at Uptakes and Down Comers
- Failed Down Comer Arches
- Damaged Crown Arches
- Wall Holes/Erosion
- Damaged Refractory on Lintels/Side Jambs
- Loose or Fallen Crown Brick
- Cracks in Oven Walls (where flame is passing through cracks in oven walls)
- Floor Holes
- Carbon Thickness
- Pusher Side Sill

Repair designations and suggestions for repair timing for identified damage resulting from this inspection are summarized below:

- Minimum a small crack, nearly superficial and shall be monitored for future expansion.
- Moderate the crack has observed gas passing through the crack and now requires action.
 Welding is recommended.
- Severe The crack is allowing material to pass through and repairs are needed as soon as practical.

Findings are summarized in a form, included as Attachment E – Oven Health Inspection Summary Form – Oven Chamber. All photos are maintained electronically for future comparison and in accordance with recordkeeping requirements.

D. Oven Refractory Exterior Inspection

The oven refractory exterior inspection, which includes the oven crown area inspection, is completed on top of the ovens on both the push and coke sides of the ovens. Findings are summarized in a form, included as Attachment E – Oven Health Inspection Summary Form – Oven Chamber.

Repair designations and suggestions for repair timing for identified exterior refractory repair resulting from this inspection are summarized below:

- Minimum a small crack, nearly superficial and will be monitored for future expansion.
- Moderate the crack has observed gas passing through the crack and now require action.
 Patching is recommended.
- Severe The crack is allowing gaseous material to pass through and may cause bricks to fall out; repairs are needed as soon as practical.

1. Oven Crown

The oven crown is a combination of ceramic wool, and gunnite. Multiple layers are utilized to better insulate the oven silica brick and help maintain a steadier change in thermal cycling as the refractory proceeds through the coking process. During the inspection, the following is examined:

- Cracking and/or Hooved-Up Gunnite (with a focus at inspecting the lintel plate area of both the coke side (C/S) and push side (P/S))
- Evidence of Flames
- Smoke or Escaped Emissions
- Interface at the Lintel and Crown Brick

2. End Walls and Buttress Walls

The oven end walls contain the sole flue dampers and inspection bricks. The following are examined during the inspection:

- Spalling of Face Brick
- Erosion
- Glowing Cracks within Brick Mortar
- Damaged or Missing Face Brick
- Leakage Behind Sill Beam and Sole Flue Area

3. Center Jambs

Jambs provide sealing along the sides of the door and translate pressure from the buckstay to the silica brick oven walls. Any discoloration and signs of smoke in the areas of the center jambs are noted.

E. Infrared Thermography (IR) Scan

Infrared thermography (IR) is the condition-monitoring tool utilized to trend external metal temperatures of refractory lined equipment using an IR camera. IR can be used to identify areas where the refractory lining is exhibiting signs of deterioration. All data obtained during the examination will be evaluated to determine if repairs are necessary, and if not, based on their relevancy, be put on a monitoring schedule.

The IR inspection applies to refractory lined equipment at IHCC summarized below:

- Common Tunnels
- Vent Stacks
- Crossover Ducts

Upon completion of the IR inspection and data evaluation, areas showing indications of refractory deterioration, as indicated by "hot spots" that show higher temperature readings during the IR scan, shall be prioritized for repairs or subsequent inspections based on the observed temperature of the "hot spots."

F. Oven Door Inspections

Oven doors provide an access portal to the coking oven chamber. Its primary focus is to retain heat through a refractory insulating castable attached shape and latch securely to the oven buckstay. The door is constructed to provide a good sealing area between the lintel plate, jamb plate, and door sealing edge. The doors, lintels, and jambs are key components to maintain heat, reduce air infiltration, and allow access to the coke chamber for pushing and charging.

External door inspections will be conducted at least quarterly. The oven door inspections provide the necessary information for repair prioritization and work order scheduling.

When viewing the doors, personnel will look for holes, overheating, latches and their positions, sill beam position, damper functionality and integrity, and warping/bowing. In addition, personnel will note if gas lances are installed, if there are missing latches, and if the ceramic wool is missing or intact.

Findings are summarized in a form, included as Attachment D – Oven Health Inspection Summary Form – Mechanical.

G. Damper Block Inspections

Damper Block Inspections will be utilized to evaluate and understand the condition of the damper blocks. The uptake dampers are comprised of lightweight materials that are vacuum bonded to the desired shape or are pre-cast refractory shapes. These dampers are actuated using an air cylinder and controlled via computer system. The Damper Block Inspections determine whether any repairs are needed to the uptake areas, as identified by a stuck damper block or a broken damper block that negatively impacts uptake functionality. Areas inspected include the presence and integrity of the damper block currently installed as well as the functionality of their respective air cylinder.

Damper Block inspections are conducted at least quarterly with results of the inspection documented within the work order, for review, following the PM workflow process.

H. Declinker Inspections

Declinker Inspections are utilized to evaluate the level of built-up carbon material called "clinker" on the floors of Coke Ovens. This inspection determines whether a coke oven needs to undergo a declinker process and can include a measurement for the amount of carbon "clinker" present in the coke oven. Findings are summarized in a form, included as Attachment E – Oven Health Inspection Summary Form – Oven Chamber.

Declinker Inspections are conducted at least annually.

VI. PROCEDURES FOR REPAIRS RESULTING FROM COKE OVEN HEALTH INSPECTIONS

Depending on the results of the inspections previously summarized, various parts of the coke ovens may require routine maintenance and repairs. Any issues discovered during the inspection will be documented in their respective summary forms, following the PM Workflow Process, and are included as Attachment C – Oven Health Inspection Summary Form – Sole Flues. Table 3 provides an example summary of typical recommended coke oven repairs from oven health inspections. This table is for example purposes only; this PMO Plan will not be updated to reflect changes to this table.

Table 3. Summary of Typical Oven Adjustments and Repairs

Title	Trigger for Repair	Recommended Repairs				
Ceramic Wool Repair	Poor/Missing Ceramic Wool	Repair/Replace Ceramic Wool				
Limit Switches Reset	Limit Switches Not Accurate	Reset Limits				
Insufficient Common	Common Tunnel Pressure	Raise Draft				
Tunnel Pressure	Causing Low Draft					
Blocks Stuck-Build-up	Blocks Stuck-Build-up in	Clean Tracks				
in Tracks	Tracks					
Lintel Repair	Bad Lintel	Patch and Schedule Repair				
Cam Bolts Replacement	Missing Cam Bolts	Replace Cam Bolts				
Door/Refractory	Bad Door/Missing	Replace Door				
Blocks Replacement	Broken Blocks	Replace Blocks				
Restore Power to Unit	No Power to Unit	Restore Power				
Changing Damper Block	Cracking, Missing, or Drifting from Set Positions	Repair/Replace Damper Block				
Hot Patch Door	Hot Spots	Patch the refractory				
Insulating the Crown	Damaged Crown Arches, Loose or Fallen Crown Brick	Replace the Ceramic Wool and/or Brick				
Declinkering Ovens	Carbon Build-Up	With the Oven Empty, Use the Pusher Ram, According to Procedures, and Scrape Away Built Up Clinker				
Ceramic Welding Repair	Cracked Refractory Brick	Fill Cracks/Holes via Ceramic Welding				

The list of recommended repairs is updated and revised based on operating experience with the most up-to-date version is maintained physically and/or electronically on IHCC's servers, as required. The current list of recommended repairs is available for inspection on-site upon request. Additional detail for more common coke oven repairs are summarized in the following subsections:

1. Repair Procedure for Changing a Coke Oven Uptake Damper Block

This repair procedure summarizes an example method for removal and replacement of the uptake damper block, performed after identifying necessary repairs from an inspection. The repair procedures for the uptake damper blocks on the P/S and the C/S of the oven are identical. If an oven has multiple damper blocks stacked, the bottom top is removed first, followed by the middle and bottom blocks. Otherwise, the single damper block is removed and replaced as a single piece. Removal is done using a block ladder, a device that the block can roll along saving the workers from the strain of the full weight

of the block. If all of the blocks need to be removed, it is recommended to inspect and clean the transition slide while access is readily available. The new uptake damper blocks are replaced into the slide using the block ladder and inspected by raising and lowering the slide to ensure the uptake functions properly.

2. Repair Procedure for the Hot Patch of a Coke Oven Door

This repair procedure summarizes an example method for hot patching a door, the purpose of which is to quickly and efficiently repair the coke oven door refractory. With the door rack on the loader bucket, the respective access procedures for the P/S and C/S are followed, as applicable. With the top latches slid in and the cams removed, the damaged door is removed and a new door is installed. For the P/S only, the oven belt must be running. The damaged door requiring a hot patch is then removed from the door rack and laid down with the material side up. Forms are placed on the areas that require patching. After the area is patched, the area is then covered with ceramic wool. After drying, the door is then set back in the rack or reinstalled onto the coke oven. Other methods may be used for hot patching a coke oven door, as appropriate, such as having coke oven doors repaired by a third party.

3. Repair Procedure for Insulating the Coke Oven Crown

This repair procedure summarizes an example method for insulating the crown on both the C/S and P/S of the coke oven, the purpose of which is to prevent or reduce air leakage at the oven crown area, ultimately minimizing Coke Oven Leaks. When an area is identified for repair, sealant is injected for repair or the existing insulation is removed and replaced with new insulation to reseal the area.

4. Repair Procedure for Declinkering Coke Ovens

This repair procedure summarizes an example method for declinkering ovens or carbon removal. Clinker is the eventual carbon buildup on the floors of coke ovens. An average coke oven should be declinkered approximately every 3-4 years. However, depending on the average charge weights and operating temperatures, the process may need to be completed earlier in the 2-3 year range.

An oven selected for declinkering is pre-inspected for possible wall welding requirements and sole flue arch conditions, and is then pushed empty. Oven temperature is closely monitored by the Product Technicians/Burners during this time. When the oven is ready for declinkering, the PCM pushing ram is eased into the oven for declinkering so that the ram head catches the buildup on the bottom of the floor. The process may be repeated several times as needed. Other methods may be used, as appropriate, in the process of declinkering.

Upon successful declinkering, the oven is then returned to production by "stepping" up the charge weights to minimize charges sticking to the floor of the oven.

5. Repair Procedure for Ceramic (Silica) Welding for Coke Ovens

This repair procedure summarizes an example method for performing ceramic (silica) welding for refractory cracks identified in a routine oven chamber inspection. Through normal use, a coke oven will develop cracks as the refractory ages.

Refractory cracks are referred to as:

- Minimum a small crack, nearly superficial and will be monitored for future expansion.
- Moderate the crack has observed gas passing through the crack and now required action.
 Welding is recommended.
- Severe The crack is allowing material to pass through.

The refractory is first prepared for welding by cleaning the refractory of loose rubble and carbon buildup. The ceramic welding is performed following the recommended welding practices, such as filling holes in a progressive and circular motion. Once welding has been completed, the welding area is visually inspected.

VII. QUARTERLY VISUAL INSPECTIONS OF COMMON TUNNEL (CONSENT DECREE IV.D.23.a.ii.)

The common tunnel is a cylindrical pipe, approximately six (6) feet in diameter, which joins oven uptakes on a battery. During the coking process in each oven, flue gas is drawn through the common tunnel using negative pressure generated by Cokenergy or the Bypass Vent Stacks.

An internal inspection of the common tunnel is used to determine if there are any potential blockages. This is done by visually inspecting the common tunnel from each end. In addition to an internal inspection, an external inspection of the common tunnel will be conducted quarterly to determine if there are any holes, or potential holes, and will be scheduled as a PM work order within the EAM system. During the external inspection, the top half of the common tunnel and stacks are scanned with an infrared tool and/or visual inspection.

Additionally, IHCC personnel will review pressure readings reported by the differential pressure (dP) cells in the common tunnel to determine whether any loss of negative pressure could be attributable to potential blockage. The common tunnel dP cell locations are summarized in Section IX of this PMO Plan.

After the inspections, the Oven Repair Supervisor, or equivalent, will make any necessary recommendations for common tunnel cleaning, repair, and/or replacement that affects negative pressure. Common tunnel cleaning, repair, and/or replacement is commenced as soon as practical and documented with generated work orders within the EAM system. Repair procedures for the common tunnel are found in Section VIII of this PMO Plan. An example copy of the common tunnel inspection is included as Attachment F – Common Tunnel Inspection Work Order. Updates to the PM shall be made within the EAM system.

VIII. PROCEDURES FOR REPAIRS RESULTING FROM COMMON TUNNEL INSPECTIONS

1. Repair Procedure for the Hot Patch of the Common Tunnel

The common tunnel is often repaired using a hot patch method. Hot patching can be achieved through windows, or access points, along the common tunnel. In an area where this is not possible, the common tunnel may be separated from the uptakes. After separating the common tunnel from the uptakes, the common tunnel section requiring a hot patch is drilled to pierce the interior refractory, following a predetermined anchor pattern. Once drilled, anchors are inserted and welded to the metal shell. Gunnite material is sprayed along the sides of the tunnel first, working up towards the top. After the gunnite material dries and, upon inspection appears stable, the uptake section is reattached.

This procedure is an example of one method used for repairing the common tunnel, though other methods may be used, as appropriate, such as cutting out and replacing an entire section.

2. Selective Replacement of the Common Tunnel

In the event that repairs of the common tunnel are unsuccessful, selective replacement of sections of the tunnel shall be made, as needed to ensure negative pressure within the common tunnel. The damaged section of the common tunnel is cut out and removed by crane and, a new piece is set into place.

IX. ADDITIONAL COMMON TUNNEL DIFFERENTIAL PRESSURE CELLS (CONSENT DECREE IV.D.23.a.iii.)

Differential pressure (dP) cells are used to ensure that the common tunnel maintains negative pressure during operations. Supplemental to the dP cells previously installed, as of Q1 2018, additional common tunnel differential pressure (DP) cells have been installed at approximately the midpoint between each Bypass Vent Stack on each respective battery. All currently installed common tunnel differential pressure cells are summarized in the following table:

Table 4. Summary of Common Tunnel dP Cell Locations

A Battery	B Battery	C Battery	D Battery		
North End of A Common	North End of B	North End of C	North End of D		
Tunnel	Common Tunnel	Common Tunnel	Common Tunnel		
North Side of Stack A1	North Side of Stack B1	North Side of Stack C1	North Side of Stack D1		
South Side of Stack A1	South Side of Stack B1	South Side of Stack C1	South Side of Stack D1		
Midpoint Between Stacks	Midpoint Between	Midpoint Between	Midpoint Between		
A1 and A2	Stacks B1 and B2	Stacks C1 and C2	Stacks D1 and D2		
North Side of Stack A2	North Side of Stack B2	North Side of Stack C2	North Side of Stack D2		
South Side of Stack A2	South Side of Stack B2	South Side of Stack C2	South Side of Stack D2		
End of Common Tunnel,					
South of Stack A2	Midpoint Between	Midpoint Between	Midpoint Between		
End of Common Tunnel,	Stacks B2 and B3	Stacks C2 and C3	Stacks D2 and D3		
North of Stack A3					
North Side of Stack A3	North Side of Stack B3	North Side of Stack C3	North Side of Stack D3		
South Side of Stack A3	South Side of Stack B3	South Side of Stack C3	South Side of Stack D3		
Midpoint Between Stacks	Midpoint Between	Midpoint Between	Midpoint Between		
A3 and A4	Stacks B3 and B4	Stacks C3 and C4	Stacks D3 and D4		
North Side of Stack A4	North Side of Stack B4	North Side of Stack C4	North Side of Stack D4		
South Side of Stack A4	South Side of Stack B4	South Side of Stack C4	South Side of Stack D4		
South End of A Common	South End of B	South End of C	South End of D		
Tunnel	Common Tunnel	Common Tunnel	Common Tunnel		

The differential pressure readings of the common tunnels, measured continuously, are visible within IHCC's Distributed Control System (DCS). In the event that pressure readings are positive, troubleshooting is performed to identify and correct the cause. These differential pressure cells are calibrated, on a quarterly basis through zero point checks, with additional checks performed as needed.

X. TRAINING OF OPERATORS (CONSENT DECREE IV.D.23.a.iv.)

All IHCC personnel, new employees, and employees transferred to a new job function will be trained for their specific job function and their respective environmental requirements. Training is refreshed on an annual basis for the required personnel. Refresher trainings are completed as needed. Field training may also be used in lieu of classroom training.

IHCC will train responsible personnel, including, but not limited to, Product Technicians/Burners, PCM Operators, and Oven Inspectors, to visually identify Coke Oven Leaks and Coke Oven health indicators. Training provides attendees with examples of Coke Oven Leaks and describes recordkeeping and corrective action requirements. For required IHCC personnel and/or contractors, Method 9 training is conducted by an external third party, in accordance with Method 9 requirements.

A. Product Technicians/Burners

Product Technicians/Burners are internally trained in the proper operation of the oven dampers, including door holes, sole flues, and uptakes, in order to maintain negative pressure in the ovens and common tunnel and optimal coke oven equilibrium, maximizing coke oven life, as well as their environmental requirements. Daily inspections of the oven condition are documented on Attachment I and submitted into the Shift Team Leader or Shift Manager at the end of their respective shift. Product Technicians/Burners are trained to identify a coke oven leak as any visible emissions, such as flames and/or smoke, from any part of the oven outside the door (i.e. buckstays, roof/crown, lintel, etc.). Training regarding coke oven leaks includes:

- P/S of Ovens All door leaks observed at any time during the coking cycle must be corrected within fifteen (15) minutes of identification.
- C/S of Ovens All door leaks under the shed observed at any time during the coking cycle must be corrected within forty-five (45) minutes of identification.
- All Other Coke Oven Leaks (i.e. Crown) All other coke oven leaks, outside the doors, observed from the ground at any time during the coking cycle must be corrected within thirty (30) minutes of identification. If crown leaks exceed thirty (30) minutes, the procedures for Method 9 readings, when applicable, must be followed.

Product Technicians/Burners are trained to properly complete the Coke Oven Checklist and Coke Oven Leak Record Sheet, included as Attachment I. The information record requires the oven number, the leak observed time, the leak end time, the cause (if known), corrective actions implemented to stop the leak, whether or not the leak was caused by adverse wind conditions, and the location of the leak. This form is submitted by the Product Technician/Burner into their respective Team Leader or Shift Manager for review.

Product Technicians/Burners are trained that all observed coke oven leaks must be responded to and properly documented. Training records for all trainees shall be maintained for five years.

B. PCM Operators

PCM Operators are internally trained in the identification and documentation of door leaks observed on their operational pushing report. This includes whether or not a leak was observed, the corrective actions implemented to mitigate and stop the leak, and the terminal time of the leak. Training records for all trainees will be maintained for five years.

C. Oven Inspectors

Oven inspectors utilize internal training to ensure the document inspection procedures are properly followed to ensure all necessary repairs can be identified and adequately made. Initial training shall include a presentation with example images for repair priority designations: minimal, moderate, and severe. This presentation reviews images of each oven component investigated. Meetings among the oven team personnel are held to review previous inspections to ensure sufficient knowledge.

XI. VISUAL INSPECTION OF EACH OVEN EXTERIOR (CONSENT DECREE IV.D.23.a.v.)

On a daily basis, a visual inspection of the exterior ends of the ovens, from the ground, must be made and documented to identify Coke Oven Leaks. Daily inspections, at a minimum, are documented by the Product Technician/Burner and maintained in accordance with record keeping requirements. Utilizing the Coke Oven Checklist and Coke Oven Leak Record Sheet, included as Attachment I, the daily shift inspection record includes the following:

- Inspection of the door and crown for leaks from the P/S of the oven
- Inspection of the door and crown for leaks from the C/S of the oven
- Inspection for leaks outside the shed on the C/S side
- Other comments the Product Technician/Burner may have identified during their visual inspection

In the event that an Oven Leak is observed during the operator's shift inspection, the record information requires the oven number, the leak observed time, the leak end time, the cause (if known), corrective actions implemented to stop the leak, whether or not the leak was caused by adverse wind conditions, and the location of the leak. In the event that adverse wind conditions are the cause of a Coke Oven Leak, the wind speed and direction are documented. This form, included as Attachment J, is submitted by the Product Technician/Burner into their respective Team Leader or Shift Manager for review. An additional oven leak form, used to document Coke Oven Leaks occurring outside of these daily inspections, is included as Attachment H – IHCC Coke Oven Leak Record. These forms are maintained physically and/or electronically, in accordance with recordkeeping requirements.

As part of the daily inspections described in Section XI, operators will also inspect the Oven Crown. In the event that opacity lasting more than 30 minutes is observed at the oven, a Method 9 reading will be performed to determine the opacity, provided conditions identified in Method 9 allow for an observation pursuant to Method 9. Method 9 will be conducted by certified observers, using a third party if practicable. The forms used to record the Method 9 opacity readings are included as Attachment G – Method 9 Inspection Form.

XII. PERIODICALLY CONFIRM METHOD 9 OPACITY READINGS DURING TRAINING (CONSENT DECREE IV.D.23.a.vi.)

In the course of training employees in performing Method 9 opacity readings, USEPA Alternative Method 082 shall be used annually to confirm the Method 9 opacity readings.

IHCC will use a third party "smoke school" to train employees in performing the Method 9 opacity readings. In addition, during training activities, the USEPA Alternative Method 082 may be conducted by the third party "smoke school" using their own equipment to confirm the Method 9 readings conducted by trainees. Any training records, certification forms, and/or inspection forms from the third party "smoke school" will be sent to the Environmental Manager for recordkeeping (either physically or electronically).

XIII. DAILY OPERATION CHECKLIST (CONSENT DECREE IV.D.23.a.vii.)

On a daily basis, an operation checklist, titled Coke Oven Checklist and Coke Oven Leak Record Sheet, and included as Attachment I, is completed by the Product Technician/Burner and maintained in accordance with record keeping requirements. The checklist includes the following:

- Inspection of the door and crown for leaks from the P/S of the oven
- Inspection of the door and crown for leaks from the C/S of the oven
- Inspection for leaks outside the shed on the C/S side
- Other comments the Product Technician/Burner may have identified during their visual inspection

In the event that a Coke Oven Leak is observed during the operator's shift, the record information requires the oven number, the leak observed time, the leak end time, the cause (if known), corrective actions implemented to stop the leak, whether or not the leak was caused by adverse wind conditions (in accordance with the Consent Decree), and the location of the leak. This form, included as Attachment I, is submitted by the Product Technician/Burner into their respective Team Leader or Shift Manager for review. An additional oven leak form, used to document coke oven leaks occurring outside of these daily inspections, is included as Attachment H – IHCC Coke Oven Leak Record. These forms are maintained physically and/or electronically, in accordance with recordkeeping requirements.

XIV. ONGOING MAINTENANCE AND REPAIRS (CONSENT DECREE IV.D.23.a.viii.)

Ongoing maintenance and repairs are tracked as part of the EAM software system, including but not limited to items identified by the daily operation checklist, titled Coke Oven Checklist and Coke Oven Leak Record Sheet, and included as Attachment I. Examples of recommended repairs are provided in Table 5. This table is for example purposes only; this PMO Plan will not be updated to reflect changes to this table.

Table 5. Summary of Ongoing Maintenance and Repairs

Maintenance Repair	Trigger for Repair	Recommended Repairs
Lintel Repair	Bad Lintel	Patch and Schedule Repair
Cam Bolts Replacement	Damaged/Missing Cam Bolts	Replace Cam Bolts
Door/Refractory	Bad Door/Missing Refractory	Replace Door
Blocks Replacement	Broken Blocks	Replace Blocks
Restore Power to Unit	No Power to Unit	Restore Power
Changing Damper Block	Cracking, Missing, or Drifting from Set Positions	Repair/replace damper block
Hot Patch Door	Hot Spots	Patch the refractory
Insulating the Crown	Damaged Crown Arches, Loose or Fallen Crown Brick	Replace the ceramic wool and/or brick
Ceramic Welding Repair	Cracked Refractory Brick	Fill cracks/holes via ceramic welding

XV. COORDINATION OF MAINTENANCE TO MINIMIZE BYPASS VENTING (CONSENT DECREE IV.D.23.a.ix.)

IHCC will coordinate with Cokenergy to minimize Bypass Venting. IHCC will make every effort to conduct maintenance that requires Bypass Venting during times when Cokenergy is conducting maintenance that requires Bypass Venting on one or more stacks. IHCC will review the Cokenergy HRSG outage schedule and, where practicable, schedule maintenance work to coincide with Cokenergy's work in a way that minimizes overall Bypass Venting.

XVI. RECORDKEEPING AND REPORTING (CONSENT DECREE IV.D.23.a.x.)

IHCC will maintain and make available for inspection the applicable records, logs, and/or reports maintained physically and/or electronically, as required by the Consent Decree. This documentation includes records detailing observed individual Coke Oven Leaks, Oven health indicators such as "Minimum", "Moderate", and "Severe", and any maintenance or repairs performed in response to Coke Oven Leaks. IHCC's recordkeeping and reporting obligations pertaining to regulatory requirements, except for the Consent Decree, are maintained in other IHCC plans and/or permits associated with the applicable regulation.

In addition, IHCC will submit semiannual progress reports to the USEPA and IDEM pursuant to the Consent Decree. These reports will include a copy of any updates to this PMO Plan, if applicable.

XVII. COMPLIANCE ASSURANCE PLAN

This section provides the Compliance Assurance Plan (CAP) to address potential periods of higher production levels, as follows. IHCC will evaluate the monthly production and monthly sulfur content of dry coal to identify whether they exceed both of the levels indicated by either Trigger 1 or Trigger 2 in the following chart in two consecutive months (High Production Level Months).

Level Description	Trigger 1	Trigger 2		
Average Monthly Sulfur Content of Dry Coal	Between 0.7% and 0.9%	>0.9%		
Average Monthly Tons of Dry Coal Charged	144,000	128,000		

To identify High Production Level Months, the planned monthly production throughput will be evaluated with the previous month's average coal quality analyses. The monthly production and monthly quality averages for coal, including, but not limited to, sulfur and moisture content, will be tracked using a running log.

In conjunction with the Emission Tracking Software (ETS), the monthly production and monthly quality averages will be used to evaluate whether subsequent High Production Level Months may cause exceedances of particulate matter (PM) or sulfur dioxide (SO₂) limits. The calculated emissions will be compared to PM and SO₂ emissions limits set forth in the IHCC Air Permit and the Consent Decree in the Daily Compliance Status Report, an output of the ETS. The Daily Compliance Status Report and Monthly Sulfur Balance Report from the ETS will be maintained.

During subsequent High Production Level Months, IHCC will utilize ETS calculations to estimate if exceedances of PM Emissions or SO_2 emission limits may occur and respond accordingly. The following figures, used only for illustrative purposes, summarize the parameters used as the basis for SO_2 and PM Emissions:

Figure 1. Illustrated Parameters Used to Determine SO₂ Rate

These Variables:	ese Variables: Determine:		Which Determine:		
HRSG Actual Steam Rate	Percent Gas Vented				
HRSG Potential Steam Rate	Percent das venteu				
Coal Sulfur	Potential SO ₂ Emission	Vented SO₂ Rate	Total SO₂ Rate		
Coke Sulfur	Factor				
Production Rate					
Main Stack SO ₂ Concentratio	n	Main Stack SO ₂ Rate	1		
Main Stack Gas Flow		Widili Stack 302 Rate			

Figure 2. Illustrated Parameters Used to Determine PM Emissions Rate

These Variables: Determine:		Which Determine:	Which Determine:		
HRSG Actual Steam Rate	Percent Gas Vented				
HRSG Potential Steam Rate	Percent Gas vented	Vented PM Emissions			
Production Rate		Rate	Total PM Emission Rates		
Uncontrolled PM Emissions F	actor				
Main Stack PM Emissions Rat	te				

IHCC will coordinate with Cokenergy to comply with PM Emissions and SO_2 applicable limits. These responses include, but are not limited to, ensuring Bypass Venting Stacks are properly closed, and ensuring sufficient SO_2 scrubbing or optimized spray dryer operation with Cokenergy.

XVIII. ROOT CAUSE FAILURE ANALYSIS

IHCC utilizes RCFA techniques to investigate Coke Oven Leaks. The RCFA process helps address issues by identifying and implementing corrective actions for the root causes of events. By focusing on the root cause, the likelihood of recurrences can be reduced.

The primary aim of an RCFA is to identify the contributory (causal) factors that resulted in the nature, magnitude, and location of one or more past Coke Oven Leaks. By establishing causal factors, IHCC can identify potential actions, inactions, and/or conditions that may be modified to reduce the likelihood of recurrence of similar outcomes. In addition, the RCFA process is used to identify the lessons to be learned to promote continuous improvement. A team-based approach towards conducting an RCFA may be utilized, and the investigation will endeavor to understand the relationships between potential root cause(s) and resulting failure(s) to minimize the likelihood of recurrence.

One of two RCFAs will be conducted for every Coke Oven Leak and shall contain the information outlined below:

A. Summary RCFA

If IHCC determines that any of the Coke Oven Leaks triggering the RCFA were caused by high winds, equipment maintenance or malfunction that is unrelated to Structural Issues with the Oven, impacts from another Oven within the same bank of 16 or 17 Ovens, or acts or omissions not related to equipment owned or operated by IHCC or Cokenergy, then IHCC shall conduct a Summary RCFA that includes, at a minimum:

- a. The date and time that the Coke Oven Leaks were observed, and the duration of the Leaks, to the extent known;
- b. If the Coke Oven Leaks were caused by high winds, i.e., adverse wind conditions, identification of wind speed and direction data for the time of the Coke Oven Leaks;
- c. If the Coke Oven Leaks were caused by impacts from adjacent Ovens, identification of the causes of those impacts;
- d. Identification of any actions taken to stop the Coke Oven Leaks; and
- e. A description of corrective action(s) available to IHCC that are necessary to prevent or reduce the likelihood of a recurrence of Coke Oven Leaks at the Oven and the date of implementation of the corrective action(s).

B. Full RCFA

For Coke Oven Leaks triggering an RCFA that are not addressed by a Summary RCFA, IHCC will communicate with Cokenergy when conducting the Full RCFA that includes, at a minimum:

- a. The date and time that the Coke Oven Leaks were observed, and the duration of the Leaks, to the extent known. If the Coke Oven Leaks involved multiple time periods of emissions, the starting and ending dates and times of each time period shall be set forth, to the extent known;
- b. Identification of any actions taken to stop the Coke Oven Leaks;
- c. A detailed analysis that sets forth the root cause(s) and all contributing causes of the Coke Oven Leaks, to the extent determinable, and the steps, if any, that were taken to limit the duration and/or quantity of emissions associated with the Coke Oven Leaks;

- d. An analysis of the measures, if any, that are reasonably available to prevent or reduce the likelihood of a recurrence of Coke Oven Leaks resulting at the Coke Oven from the same root cause(s) and contributing causes in the future. The analysis shall evaluate design, operational, and maintenance changes, if any; the probable effectiveness of each such measure; the likely cost of each measure; whether or not an outside consultant should be retained to assist in the analysis; and whether the same issue would have an impact on other Ovens;
- e. A description of correction actions(s) implemented and the date of implementation of the corrective action(s), or, if not already implemented, a schedule for their implementation, including proposed commencement and completion dates, or an explanation that corrective action(s) is (are) not required;
- f. To the extent that investigations of the causes and/or possible corrective actions still are underway on the due date of the semi-annual report, a statement of the anticipated date by which a follow-up report fully conforming to the requirements of this Paragraph will be submitted; provided, however, that if a report or a series of reports containing the information required to be submitted under this Paragraph is not submitted within sixty (60) Days (or such additional time as USEPA may allow) after the semi-annual reporting period during which the RCFA is to be submitted, the stipulated penalty provisions of Section IX (Stipulated Penalties) of the Consent Decree shall apply for failure to timely submit the report. Nothing in this Paragraph shall be deemed to excuse investigation, reporting, and corrective action obligations under this Section for any Coke Oven Leak RCFA Trigger Level that occurs after another Coke Oven Leak RCFA Trigger Level for which an extension of time is requested under this Paragraph; and
- g. To the extent that completion of the implementation of corrective action(s), if any, is not finalized at the time of the submission of the report required under this Paragraph, the status of the correction actions will be reported in subsequent semi-annual reports until the status has been reported as complete.

Action items from RCFAs are assigned to individuals to complete items and are tracked. The status of action items is periodically reviewed by IHCC's leadership team.

XIX. ENVIRONMENTAL: MANAGEMENT OF CHANGE

At times, certain changes to IHCC assets or operational practices that involve significant changes to process, mechanical, civil, electrical or technological specifications are managed using the EAM system Management of Change (MOC) process.

The originator of a MOC must provide the basis for the change (provide the scope) which includes the description of why a change is being proposed and what improvements or benefits are expected (provide the justification). This information is included for all MOCs and is provided during the origination phase of a MOC record.

The MOC system coordinator assigns one or more subject matter experts to review the change. The review team will include the site Environmental Manager, or their designee, whenever a process change is being proposed that involves environmental media or a process with environmental implications. A predefined list of environmental consequences may be utilized during the review and is included as Attachment J – Environmental: Management of Change. The change will also be subjected to technical analysis for adherence to good engineering design standards and to ensure the proposed design is safe, reliable, cost-effective and environmentally sound. MOC reviewers can assign follow up actions that must be completed prior to implementation of the change. Subject matter experts or their designees review and approve any changes prior to implementation.

XX. ROLES AND RESPONSIBILITIES

General Manager – Overall responsibility for all facets of the IHCC facility. Related to the PMO Plan, the General Manager ensures that trained and qualified persons are assigned as the process owners of the MOC and RCFA work processes at the site. The General Manager shall ensure that RCFAs are conducted and reviewed.

Operations Manager – Overall responsibility for all operational activities at IHCC. Related to the PMO Plan, the Operations Manager ensures that Coke Oven Leak and other operational procedures are readily available, understood, and properly executed by operations personnel. Responsible for providing or directing personnel to provide timely communication of Coke Oven Leaks at Rebuilt Ovens.

Maintenance Manager – Overall responsibility for the plant maintenance process at IHCC. Related to the PMO Plan, the Maintenance Manager ensures that job plan tasks are sufficient to provide reliability and reduce the likelihood of Coke Oven Leaks. Responsible for verifying PM completion, reporting PM compliance and developing action plans. Reviews the outage schedule and coordinating maintenance with Cokenergy, as described in Section XV.

Environmental Manager – Overall responsibility for all environmental aspects at IHCC. Ensures that all events are reported in accordance with the IHCC Air Permit, Consent Decree, and the requirements of 40 CFR 63.10(d)(5)(ii) and 40 CFR 63.7341(d). Maintains applicable physical and/or electronic records, logs, reports, and/or notifications pertaining to permit and Consent Decree requirements. Prepares periodic reports for Coke Oven Leaks to the USEPA and IDEM as part of the semi-annual compliance certifications required under Paragraph 51 of the Consent Decree and paragraphs 63.311(d) and 63.7341(c) of 40 CFR 63, Subpart L and Subpart CCCCC, respectively. Reviews the field documentation for all environmental critical PM tasks to ensure proper follow up actions are taken.

Production Maintenance Coordinator or Designee – Overall responsibility for scheduling maintenance work and critical PM tasks at IHCC. Ensures that process equipment is available for scheduled work and that work order quality (content and codification) is in compliance with work process standards prior to release to maintenance.

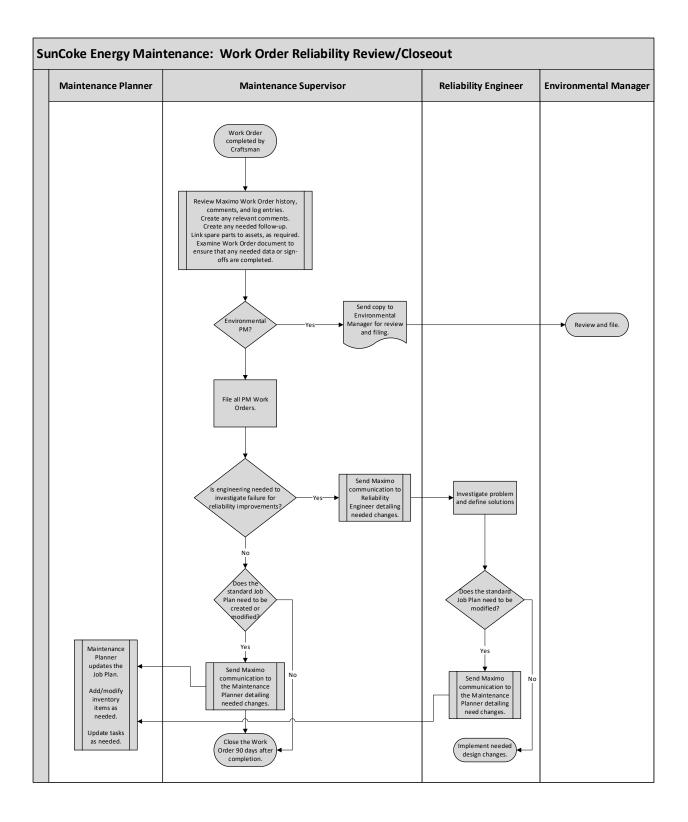
XXI. PMO PLAN MODIFICATIONS OR REVISIONS

Modifications may be made to this PMO Plan as necessary to satisfy applicable requirements or to reflect changes in equipment or procedures. In accordance with Paragraph 23 and Section VIII of the Consent Decree, changes to this PMO Plan related to minimizing Coke Oven Leaks shall be summarized and reported to USEPA and IDEM in the subsequent semi-annual periodic report. Such changes may be implemented immediately, but nonetheless shall be subject to the approval of USEPA in accordance with the Consent Decree. The PMO Plan revisions will be documented in Attachment K – PMO Plan Document Control Form.

ATTACHMENT A – EXAMPLE LIST OF ENVIRONMENTAL CRITICAL PM

PM	Description	Location
1499	PM IH A Battery Sole Flue Inspection	010A
1500	PM IH B Battery Sole Flue Inspection	010B
1501	PM IH C Battery Sole Flue Inspection	010C
1821	PM IH D Battery Sole Flue Inspection	010D
4645	PM IH A Battery Semi-Annual Tie Rod Inspection	STR-10A
4646	PM IH B Battery Semi-Annual Tie Rod Inspection	STR-10B
4647	PM IH C Battery Semi-Annual Tie Rod Inspection	STR-10C
4648	PM IH D Battery Semi-Annual Tie Rod Inspection	STR-10D
4896	PM IH A-Battery Maintenance Inspection of Common Tunnel 'Hot Spots'	TU-A
4573	PM IH B-Battery Maintenance Inspection of Common Tunnel 'Hot Spots'	TU-B
5087	PM IH C-Battery Maintenance Inspection of Common Tunnel 'Hot Spots'	TU-C
5088	PM IH D-Battery Maintenance Inspection of Common Tunnel 'Hot Spots'	TU-D
5202	Oven Door Inspection A-Battery	010A
5203	Oven Door Inspection B-Battery	010B
5204	Oven Door Inspection C-Battery	010C
5205	Oven Door Inspection D-Battery	010D
5380	Thermography Scan of A Battery Common Tunnel	010A
5381	Thermography Scan of B Battery Common Tunnel	010B
5382	Thermography Scan of C Battery Common Tunnel	010C
5383	Thermography Scan of D Battery Common Tunnel	010D
5461	PM IH A-Battery EV Stack Transition 'Hot Spot' Inspection	EVS-A
5462	PM IH B-Battery EV Stack Transition 'Hot Spot' Inspection	EVS-B
5463	PM IH C-Battery EV Stack Transition 'Hot Spot' Inspection	EVS-C
5464	PM IH D-Battery EV Stack Transition 'Hot Spot' Inspection	EVS-D
7154	PM IH A-Battery Mechanical Inspection	STR-10A
7155	PM IH B-Battery Mechanical Inspection	STR-10B
7156	PM IH C-Battery Mechanical Inspection	STR-10C
7159	PM IH D-Battery Mechanical Inspection	STR-10D
8144	A Battery Oven Chamber Bi-Annually Inspections	010A
8145	B Battery Oven Chamber Bi-Annually Inspections	010B
8146	C Battery Oven Chamber Bi-Annually Inspections	010C
8147	D Battery Oven Chamber Bi-Annually Inspections	010D
8149	A-Battery Oven Crown Area	010A
8153	B-Battery Oven Crown Area	010B
8154	C-Battery Oven Crown Area	010C
8155	D-Battery Oven Crown Area	010D

ATTACHMENT B - PM WORKFLOW PROCESS



ATTACHMENT C – OVEN HEALTH INSPECTION SUMMARY FORM – SOLE FLUE

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	3 DAMPER CHAMBER		3	3 INSPECTION CHAMBER	
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4	3 DAMPER CHAMBER		4	3 NOPECTION CHAMBER	
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12 COVEN 13 COVEN 14 COVEN	J DRAMER CHAMBER LONG OWNER FUL STRICT CHAMBER J DRAFT CHAMBER	(SUS	12 OVEN 13 OVEN 14 OVEN	I DIMARIE CHAMBER ARRATTON CHAMBER FUE LICHE CHAMBER ARRATTON CHAMBER LICHE CHAMBER ARRATTON CHAMBER LICHE CHAMBER ARRATTON CHAMBE	ISSUES ISSUES
12 0VEN 13 0VEN 14 0VEN 15	J GRAMER CHAMBER HADE CHAMBER J SHEET CHAMBER	ISUS	12 OVEN 13 OVEN 14 OVEN 15	DIMERIO CHAMBER JIMPECTON CHAMBER FLUE JIMPECTON CHAMBER	ISSUES ISSUES
12 COVEN 13 COVEN 14 COVEN	J DRAMER CHAMBER ALONG OWNSER FILLE STRICT CHAMBER STRICT CHAMBER STRICT CHAMBER STRICT CHAMBER STRICT CHAMBER STRICT STR	(SUS	12 OVEN 13 OVEN 14 OVEN	I DIMATRE CHAMBER I PROPRETORI CHAMBER FUE I LOTES CHAMBER I STATE CHAMBER I LOTES CHAMBER I STATE CHAMBER I S	ISSUES ISSUES
12 0VEN 13 0VEN 14 0VEN 15	J GRAFFE CHAMBER A LONG CHAMBER FLUE THE THAMBER 2 MINIST CHAMBER 4 MINIST CHAM	(SUE)	12 OVEN 13 OVEN 14 OVEN 15 OVEN	DIMERT CHAMBER J PRIME CHON CHAMBER FUE LICHE CHAMBER J MARKET	ISSUES ISSUES
12 13 CMEN 14 COVEN 15 COVEN	J DRAMER CHAMBER ALONG CHAMBER FILLE 2 MONTH CHAMBER 2 MONTH C	(SUE)	12 OVEN 13 OVEN 14 OVEN 15 OVEN	DIMERRIO CHAMBER FINE FLORE F	ISSUES ISSUES
12 0VEN 13 0VEN 14 0VEN 15	J GRAFFE CHAMBER A LONG CHAMBER FLUE THE THAMBER 2 MINIST CHAMBER 4 MINIST CHAM	(SUE)	12 OVEN 13 OVEN 14 OVEN 15	DIMERRIO CHAMBER FINE FLORE F	ISSUES ISSUES
12 13 CMEN 14 COVEN 15 COVEN	J DRAMER CHAMBER ALONG OWNER FULL STRICT CHAMBER J DRAMER	(SUE)	12 OVEN 13 OVEN 14 OVEN 15 OVEN	I DIMARIE CHAMBER ARROTTO CHAMBER FLUE LICHE CHAMBER ARROTTO CHAMBER	ISSUES ISSUES
12 13 OVEN 14 GIVEN 15 OVEN 16	J GRAMER CHAMBER ALONG CHAMBER FLUE S THE CHAMBER S THE CH	CSUES CSUES CSUES	12 0VEN 13 0VEN 14 0VEN 15 0VEN 16	DIMERIE GUMBER FUE FUE FUE FUE FUE FUE FUE F	ESUES ESUES ESUES
12 13 CMEN 14 COVEN 15 COVEN	J DRAMER CHAMBER ALONG OWNER FILE 2 MONT CHAMBER 2 MONTE CHAMBER 3 MARTE CHAMBER 3 MARTE CHAMBER 3 MARTE CHAMBER 3 MARTE CHAMBER 5 MARTE CHAMBER 6 MARTE CHAMBER 6 MARTE CHAMBER 7 MA	CSUES CSUES CSUES	12 OVEN 13 OVEN 14 OVEN 15 OVEN	I DIMARIE CHAMBER J PRIMECTON CHAMBER FUE LICHE CHAMBER SENDIT CHAMBER SE	ISSUES ISSUES
12 13 OVEN 14 OVEN 15 OVEN 16	J GRAMER CHAMBER ALONG CHAMBER FLUE S MICHAEL CHAMBER S MICHAEL CH	CSUES CSUES CSUES	12 oven 13 oven 14 oven 15 oven 16 oven	DIMERT CHAMBER FINE FORCE FOR	ESUES ESUES ESUES
12 13 OVEN 14 OVEN 15 OVEN 16	J GRAMPR CHAMBER FILLE 2 MONTO CHAMBER FILLE 2 MONTO CHAMBER 4 MONTO CHAMBER 2 MONTO	CSUES CSUES CSUES	12 oven 13 oven 14 oven 15 oven 16 oven	DIMERRI CHAMBER FINE FILE FILE FILE FILE FILE FILE FILE FIL	ESUES ESUES ESUES
12 13 OVEN 14 OVEN 15 OVEN 16	J GRAMER CHAMBER ALONG CHAMBER FLUE S MICHAEL CHAMBER S MICHAEL CH	CSUES CSUES CSUES	12 0VEN 13 0VEN 14 0VEN 15 0VEN 16	DIMERT CHAMBER FINE FORCE FOR	ESUES ESUES ESUES
12 13 OVEN 14 OVEN 15 OVEN 16	J GRAFFE CHAMBER A LONG CHAMBER FLUE THE THE CHAMBER J MINET CHAMBER	CSUES CSUES CSUES	12 oven 13 oven 14 oven 15 oven 16 oven	I DIMARIE CHAMBER FILE	ESUES ESUES ESUES
12 OVEN 13 OVEN 14 OVEN 15 OVEN 16 OVEN 17	J GRAMER CHAMBER ALONG CHAMBER FILE STREET CHAMBER	COSUES COSUES COSUES COSUES	12 coven 13 coven 14 coven 15 coven 16 coven 17	DIMERT CHAMBER FUND CHAMBER FUND CHAMBER FUND CHAMBER DIMERT CHAMBER	EISUES EISUES EISUES EISUES
12 13 OVEN 14 OVEN 15 OVEN 16	J DRAMER CHAMBER ALONG OWNER FILE 2 MORT CHAMBER 2 MORT CHAMBER 2 MORT CHAMBER 3 MORT CHAMBER 3 MORT CHAMBER 3 MORT CHAMBER 5 MORT CHAMBER 6 MORT CHAMBER 6 MORT CHAMBER 6 MORT CHAMBER 6 MORT CHAMBER 7 MORT CH	CSUES CSUES CSUES	12 oven 13 oven 14 oven 15 oven 16 oven	I DIMATRE CHAMBER FINE FORD CHAMBER FUE I DONE CHAMBER FUE I DONE CHAMBER ESUES ESUES ESUES	
12 DVEN 14 DVEN 15 DVEN 16 DVEN 17 DVEN	J GRAFFE CHAMBER A LONG CHAMBER J SHICK CHAMBER J SHIC	COSUES COSUES COSUES COSUES	12 oven 13 oven 14 oven 15 oven 16 oven 17	DIMERT CHAMBER FINE FINE FILE FI	EISUES EISUES EISUES EISUES
12 DVEN 14 DVEN 15 DVEN 16 DVEN 17 DVEN	J GRAMPR CHAMBER ALONG OWNSER FILE 2 MORT CHAMBER 2 MORT CHAMBER 2 MORT CHAMBER 2 MORT CHAMBER 3 MORT CHAMBER 3 MORT CHAMBER 3 MORT CHAMBER 4 MORT CHAMBER 5 MORT C	COSUES COSUES COSUES COSUES	12 oven 13 oven 14 oven 15 oven 16 oven 17	I DIMARIE CHAMBER FINE FINE FINE FINE FINE FINE I CONS CHAMBER STANCE	EISUES EISUES EISUES EISUES
12 0VEN 14 0VEN 15 0VEN 16 0VEN 17	J GRAFFE CHAMBER A LONG CHAMBER J SHICK CHAMBER J SHIC	COSUES COSUES COSUES COSUES	12 coven 13 coven 14 coven 15 coven 16 coven 17	DIMERT CHAMBER FINE FINE FILE FI	EISUES EISUES EISUES EISUES
12 DVEN 14 DVEN 15 DVEN 16 DVEN 17 DVEN	J GRAMER CHAMBER A LONG CHAMBER A LONG CHAMBER A SHEET CHAMBER	COSUES COSUES COSUES COSUES	12 oven 13 oven 14 oven 15 oven 16 oven 17	DIMERTO CHAMBER FILE LIPPACCION CHAMBER FUE LIONS CHAMBER SENDET CHAMBER	EISUES EISUES EISUES EISUES
12 GMEN 13 GMEN 14 GMEN 15 GMEN 16 GMEN 17 GMEN 18	J GRAMER CHAMBER A LONG CHAMBER FILE STREET CHAMBER	COURS COURS COURS COURS COURS	12 OVEN 13 OVEN 14 OVEN 15 OVEN 16 OVEN 17 OVEN 18	DIMERT CHAMBER FURE FU	ESUES ESUES ESUES ESUES ESUES
12 DVEN 14 DVEN 15 DVEN 16 DVEN 17 DVEN	J DRAMER CHAMBER ALONG OWNER FILE 2 MONTO TOWNER ALONG OWNER ALONG OWNER BULL 2 MONTO TOWNER DIMERT CHAMBER DIMERT CH	COSUES COSUES COSUES COSUES	12 oven 13 oven 14 oven 15 oven 16 oven 17	I DIMATRE CHAMBER FINE FORD CHAMBER FUE I DONE CHAMBER FUE I DONE CHAMBER FINE I DOME CHAMBER I DOME CHAMBER FINE I DOME CHAMBER I DOME CHAMB	EISUES EISUES EISUES EISUES
12 CMEN 13 CMEN 14 CMEN 15 CMEN 16 COVEN 17 COVEN 18	J GRAMER CHAMBER ALONG CHAMBER FLUE S MICHET CHAMBER S MICHET	COURS COURS COURS COURS COURS	12 OVEN 13 OVEN 14 OVEN 15 OVEN 16 OVEN 17 OVEN 18	DIMERT CHAMBER FUND CONTROL CHAMBER FUND CONTROL CHAMBER FUND CONTROL CHAMBER DIMERT CHAMB	ESUES ESUES ESUES ESUES ESUES
12 COVEN 14 COVEN 15 COVEN 17 COVEN 18 COVEN	J DRAMER CHAMBER ALONG OWNSER FILE 2 MORT CHAMBER 2 MORT CHAMBER 2 MORT CHAMBER 3 MORT CHAMBER 3 MORT CHAMBER 3 MORT CHAMBER 3 MORT CHAMBER 4 MORT CHAMBER 5 MORT C	COURS COURS COURS COURS COURS	12 OVEN 13 OVEN 14 OVEN 15 OVEN 16 OVEN 17 OVEN 18	I DIMARRE CHAMBER FINE FORD CHAMBER FUE I DONE CHAMBER FUE I DONE CHAMBER FINE I DONE CHAMBER FINE I DONE CHAMBER FINE I DONE CHAMBER FINE I DONE CHAMBER I DONE	ESUES ESUES ESUES ESUES ESUES
12 COVEN 13 COVEN 15 COVEN 16 COVEN 17 COVEN 18	J GRAMER CHAMBER ALONG CHAMBER FLUE S MINISTER CHAMBER S MINISTER CHAM	COURS COURS COURS COURS COURS	12 OVEN 13 OVEN 14 OVEN 15 OVEN 16 OVEN 17 OVEN 18	DIMERT CHAMBER FINE FILE FI	ESUES ESUES ESUES ESUES ESUES
12 DVEN 14 DVEN 15 DVEN 17 DVEN 18 DVEN	J GRAMER CHAMBER ALONG CHAMBER FLUE S MINISTER CHAMBER S MINISTER CHAM	COURS COURS COURS COURS COURS	12 OVEN 13 OVEN 14 OVEN 15 OVEN 16 OVEN 17 OVEN 18	DIMERT CHAMBER FINE FILE FI	ESUES ESUES ESUES ESUES ESUES
12 COVEN 14 COVEN 15 COVEN 17 COVEN 18 COVEN	J GRAMER CHAMBER FLUE 2 MINIST CHAMBER FLUE 2 MINIST CHAMBER 2 MINIST CHAMBER 3 MINIST CHAMBER 3 MINIST CHAMBER 3 MINIST CHAMBER 2 MINIST CHAMBER 3 MINIST CHAMBER 3 MINIST CHAMBER 4 MINIST CHAMBER 2 MINIST CHAMBER 3 MINIST CHAMBER 2 MINIST CHAMBER 3 MINIST CHAMBER 3 MINIST CHAMBER 4 MINIST CHAMBER	COURS COURS COURS COURS COURS COURS	12 OVEN 13 OVEN 14 OVEN 15 OVEN 16 OVEN 17 OVEN 18	I DIMARRE CHAMBER FINE FORD CHAMBER FUE I DONE CHAMBER FUE I DONE CHAMBER FINE I DONE CHAMBER FINE I DONE CHAMBER FINE I DONE CHAMBER FINE I DONE CHAMBER I DONE	ESUES ESUES ESUES ESUES ESUES

ATTACHMENT C (CONTINUED) – OVEN HEALTH INSPECTION SUMMARY FORM – SOLE FLUE

	1 SHORT OWNER.			1 LONG CHAMBER	
20	2 INSPECTION CHAMBER		20	2 DAMPER CHAMBER	
20	3 DAMPER CHAMBER		20	3 INSPECTION CHAMBER	
	4 LONG CHAVETE			4 SHORT CHAMBER	
CVEN	PLUE	ESSUES	OVEN	FLUE	SSUES
	1 SHORT CHAMBER			1 LONG OHWINGER	
21	2 INSPECTION CHAMBER		21	2 DAMPER CHAMBER	
21	I DAMPER CHAMBER		21	3 INSPECTION CHAMBER	
	4 LONG CHAVEER			4 SHORT CHAMBER	
CVEN	PLUE	ISSUES	OVEN:		SSUES
	I SHORT CHAMBER			1 LONG OHWISER	
22	2 INSPECTION CHAMBER		22	2 DAMPER CHAMBER	
ZZ	T DAMPER CHAMBER		22	1 REPECTION CHAMBER	
	4 LONG CHAMBER			E SHORT CHIMBER	
OVEN	PLUE	ISSUES	OVEN	FLUE	53U 6 5
	1 SHORT CHAMBER			1 LONG OHWISER	
22	2 INSPECTION CHAMBER		22	2 DAMPER CHAMBER	
23	I CAMPER CHAMBER		23	1 INSPECTION CHAMBER	
	4 LONG CHAMBER			4 SHORT CHAMBUR	
CVEN	FLUE	essues	OVEN		SSUES .
	1 SHORT CHAMBER			1 LONG CHAMBER	
24	2 INSPECTION CHAMBER		24	2 DAMPER CHAMBER	
24	1 CAMPER CHAMBER		24	3 INSPECTION CHAMBER	
	4 LONG CHAMBER		_	4 SHORT CHAMBER	
OVEN	PEUE	ISSUES	OVEN		SSUES
	1. SHORT CHANNER			1 LONG CHAMBER	
25	2 INSPECTION CHANGES		25	2 DAMPER CHAMBER	
125	S DAMPER CHAMBER		25	3 REPECTION CHARGES	
	4 LONG CHAMBER			4 SHORT CHILADER	
OVEN	PLUE	essues	OVEN:		ssues:
	L SHORT CHAMBER			1 LDNG DHAMBER	
20	2 INSPECTION CHAVISIN		20	2 DAMPER CHAMBER	
126	A DAMPER CHAMBER		26	3 INSPECTIGING HANNINGS	
				4 SHORT CHAMBER	
CIVEN	4 LONG CHAMBER	el de sid d	OVEN		CD (C)
GVE/II	FEUE CHAMPER	ESSUES C	UNER	1 LONG CHAMBER	69UES
-	1 SHORT CHANGER 2 INSPECTION CHANGER		27	2 DAMPER CHAMBER	
7/	A DAMPER CHAMBER		27		
-/			_,	2 INSPECTION CHAMBER	
CA IPAI	4 LONG CHAMBER	and an an an	no opel	4 SHORT CHAMBER	
CIVEN	FLUE	ESUES C	DVEN		SUE
	2 INSPECTION CHANGES			1 LONG CHAMBER	
128	2 DESPECTION CHANGES		28	2 DAMPER CHAMBER	
20			20	3 INSPECTION CHAMBER	
	4 LONG CHAMBER			4 SHORT CHAMBER	
CVEN	FLUE	RSSUES C	OVEN		SUE
	L SHORT CHANNER			1 LONG CHAMBER	
129	2 REPECTION CHANGES		29	2 DAMPER CHIMBER	
20	3 DAMPER CHAMBER		23	3 NEPECTION CHAMBER	
	A TOWNS OF THE BUILDING		23		
COVEN	MESSE	NOTES A	TURN:	erce -	COLUMN TO THE CO
OVEN	PEUE COMMERCE	issues	OVEN:		53085
OVEN	1 SHORT OHMBUR	rssues c		1 LONG CHAMBER	53UES
30	1 SHORT CHAMBER 1 REPECTION CHAMBER	NSUES C		1 LONG CHAMBER 2 DAMPER CHAMBER	55UES
30	1 SHORT CHAMBER 1 REPECTION CHAMBER 1 DAMPER CHAMBER	rissues c	30	1 LONG CHAMBER 2 DAMPER CHAMBER 5 INSPECTION CHAMBER	22VE2
30	1 SHORT CHAMBUR 2 REPECTION CHAMBUR 3 DAMPER CHAMBUR 4 LONG CHAMBUR		30	1 LONG DAMAGER 2 DAMPER CHAMGER 5 REPECTION CHAMGER 4 SHORT CHAMGER	
30	1 SHORT CHAMBER 2 INSPECTION CHAMBER 3 DAMMER CHAMBER 4 LONG CHAMBER FLUE			1 LONG CHAMBER 2 DAMPER CHAMBER 3 REPECTION CHAMBER 4 SHORT CHAMBER FLUE	SUUES
30	1 SHORT CHAMBER 2 REPECTION CHAMBER 3 DAMPER CHAMBER 4 LONG CHAMBER FLUE 1 SHORT CHAMBER		30 OVEN	1 LONG CHAMBER 2 DAMPER CHAMBER 3 REPECTION CHAMBER 8 SHORT CHAMBER PLUE 1 LONG CHAMBER	
30	1 SHORT CHAMBER 2 INSPECTION CHAMBER 3 DAMPER CHAMBER 4 LONG CHAMBER FLUE 1 SHORT CHAMBER 3 INSPECTION CHAMBER		30 OVEN	1 LONG CHAMBER 2 DAMPER CHAMBER 3 REPRETION CHAMBER 6 SHORT CHAMBER 1 LONG CHAMBER 1 LONG CHAMBER 2 DAMPER CHAMBER	
30	1 SHORT CHAMBER 1 REPECTION CHAMBER 1 DANFER CHAMBER 4 LONS CHAMBER HULE 1 SHORT CHAMBER 3 SERFECTION CHAMBER 5 DANFER CHAMBER		30	1 LONG CHAMBER 2 DAMPER CHAMBER 3 MEPECTION CHAMBER 4 SHORE CHAMBER 1 LONG CHAMBER 2 DAMPER CHAMBER 3 ROPECTION CHAMBER 3 ROPECTION CHAMBER	
30 _{OVEN} 31	1 SHORT CHAMBER 1 REPECTION CHAMBER 1 DAMPER CHAMBER 4 LONG CHAMBER HUUE 1 SHORT CHAMBER 1 DAMPER CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER	esues	30 31	1 LONG CHAMBER 2 DAMPER CHAMBER 3 DAMPER CHAMBER 4 SHORT CHAMBER 1 LONG CHAMBER 2 DAMPER CHAMBER 3 DAMPER CHAMBER 4 SHORT CHAMBER 4 SHORT CHAMBER 5 SHORT CHAMBER 6 SHORT CHAMBER	SSUES
30	1 SHORT OHMMBUR 2 REPORTION OHMMBUR 3 DANNER CHAMBER 4 LONG OHAMBER 1 SHORT OHAMBER 2 SEPECTION OHAMBER 3 DANNER CHAMBER FLUE 1 SHORT OHAMBER 5 DANNER CHAMBER FLUE	esues	30 OVEN	1 LONG CHAMBOR 2 DAMPER CHAMBOR 8 DROKETON CHAMBOR 6 DROKET CHAMBOR FLUE 1 LIONG CHAMBOR 2 DAMPER CHAMBOR 8 REPETION CHAMBOR 8 REPETION CHAMBOR 9 DROKET CHAMBOR 8 REPETION CHAMBOR 1 DROKET CHAM	
30 _{OVEN} 31	LINGET OWNERS I REPECTION CHAMBER I REPECTION CHAMBER I LONG CHAMBER I LINGET CHAMBER I SHORT CHAMBER I DAMPER CHAMBER I LONG CHAMBER	esues	30 31	1 LONG CHAMBER 2 DAMPER CHAMBER 5 REPECTOR CHAMBER 6 PHORE CHAMBER 1 LONG CHAMBER 7 DAMPER CHAMBER 8 PHORE CHAMBER 8 PHORE CHAMBER 1 LONG CHAMBER	SSUES
30 31	1 SHORT OWNERS 2 REPECTION OWNERS 3 DAMPER CHAMMER 4 LONG CHAMMER 1 LONG CHAMMER 1 SHEPECTION CHAMMER 3 DAMPER CHAMMER 4 LONG CHAMMER 4 LONG CHAMMER 1 LONG CHAMMER 1 LONG CHAMMER 2 LONG CHAMMER 2 REPECTION CHAMMER	esues	30 31	1 LONG CHAMBER 2 DAMPER CHAMBER 5 PORTOR CHAMBER 6 PORTOR CHAMBER 1 LONG CHAMBER 2 DAMPER CHAMBER 3 REPETTOR CHAMBER 6 PORTOR CHAMBER 1 LONG CHAMBER 2 DAMPER CHAMBER 2 DAMPER CHAMBER 3 DAMPER CHAMBER	SSUES
30 31	1 SHORT OWNERS 2 REPECTION CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 3 REPECTION CHAMBER 4 LONG CHAMBER 5 SHORT CHAMBER 5 SOMPER CHAMBER 5 DAMPER CHAMBER 5 DAMPER CHAMBER 5 DAMPER CHAMBER 5 DAMPER CHAMBER	esues	30 31	LIONG OMMINIER 1 MOPETO DIAMER 1 DIONG OMMINIER 1 MOPETO DIAMER 1 MOPETO DIAMER 1 MOPETO DIAMER 1 DIONG OMMINIER 1 DIAMER 1 DIAMER 2 DAMPIRE DIAMER 2 MARPIETO DIAMER 8 MOPETO DIAMER	SSUES
30 31 cven 32	1 SHORT OHANBER 1 BOTHER OHANBER 2 DANNER DHALMER 4 LONG CHAMBER 1 SHORT CHAMBER 2 SERRICTION CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 5 LONG CHAMBER 6 LONG CHAMBER 6 LONG CHAMBER 7 LONG CHAMBER 7 BORT CHAMBER 7 BORT CHAMBER 7 BORT CHAMBER 7 BORT CHAMBER 8 BORT CHAMBER 8 LONG CH	ISSUES C	30 31 0000 32	LLONG CHAMBER Z DAMPER CHAMBER A MORECTOR CHAMBER A SHORETOR CHAMBER LLONG CHAMBER LLONG CHAMBER J SAMPET CHAMBER A SHORET CHAMBER LLONG CHAMBER LLONG CHAMBER J SEMPET CHAMBER Z DAMPER CHAMBER J ROPEL CHO CHAMBER J ROPEL CHO CHAMBER J ROPEL CHO CHAMBER J ROPEL CHO CHAMBER J ROPEL CHAMBER	SSUES
30 31	LINGET CHAMBER TARPET PARAMER TARPET	ISSUES C	30 31	LIONG OMMINIST THORPETO DIAMETER THOR	SSUES
30 31 cven 32	LINGET OWNERS SEPECTION CHANNED SAMPER DEALMER LUSE LINGET CHANNES LUSE SAMPER DEALMER LUSE LINGET CHANNES LUSE SAMPER DEALMER LUSE LINGET CHANNES LUSE LUSE LUSE LUSE LUSE LUSE LUSE LU	ISSUES C	30 31 32	LLONG CHAMBER DAMPER CHAMBER LICHIO CHAMBER LUCE LLONG CHAMBER LUCHO CHAMBER	SSUES
30 31 cven 32	LINGER OWNERS TOWNERS CHAMBS LUDIS CHAMBS	ISSUES C	30 31 32	LIDING OMMIRES I MONTETO DI CHAMBER I MONTETO DI CHAMBER I MONTETO DI CHAMBER I MONTETO DI CHAMBER I LIDING OMMIRES I LIDING OMMIRES I MONTETO DI CHAMBER I LIDING OMMIRES I LIDING OMMIRES I LIDING OMMIRES I REPETORI CHAMBER I LIDING OMMIRES I MONTETO DI CHAMBER I LIDING OMMIRES I MONTETO DI CHAMBER I LIDING OMMIRES I	SSUES
30 31 cven 32	LINGET OWNERS SEPECTOR CHANNES SCHAPED PARAMER LUDES OWNERS LUDES OWNERS LUDES OWNERS SEPECTOR CHANNES SCHAPED PARAMER LUDES OWNERS L	ISSUES C	30 31 0000 32	LIDING OHAMBER 1 MERTET OHAMBER 1 MERTET OHAMBER 1 MERTET OHAMBER 1 MERTET OHAMBER 1 DIAMPER OHAMBER 2 DAMPER OHAMBER 1 DIAMPER OHAMBER 1 DIAMPER OHAMBER 1 DIAMPER OHAMBER 2 MARPET OHAMBER 2 MARPET OHAMBER 1 DIAMPER OHAMBER 2 MARPET OHAMBER 1 DIAMPER OHAMBER 1 MERTET OHAMBER 1 MERTET OHAMBER 1 MERTET OHAMBER 1 MERTET OHAMBER	SSUES
30 31 cven 32 cven 33	LIPICETO CHAMBER TORNICTION CHAMBER TORNICTION CHAMBER TORNICTION CHAMBER TUDE SINICITION CHAMBER TUDE TORNICTION TORNICE TORNICTION TORNICTION TORNICE TORN	ISSUES C	30 31 32 0ven 33	LILDING OMMARIE TAMPET ON CHAMBER TAMPET ON CHAMBER TAMPET ON CHAMBER THUE LILDING OMMARIE TAMPET CHAMBER THUE THUE THUE TAMPET CHAMBER THUE THU	SOUES SOUES
30 31 cven 32	LINGET OWNERS TEAMPTE THAMME LUDES OWNERS	ISSUES C	30 31 32	LIDING OMMIRES 1 NOTATION OMMIRES 1 NOTATION OMMIRES 1 NOTATION OMMIRES 1 NOTATION OMMIRES 1 DOMORRES 1 DOMORRES 1 DOMORRES 1 NOTATION OMMIRES 1 NOTATION OMMIRES 1 NOTATION OMMIRES 1 NOTATION OMMIRES 2 NOTATION OMMIRES 2 NOTATION OMMIRES 2 NOTATION OMMIRES 2 NOTATION OMMIRES 3 NOTATION OMMIRES 3 NOTATION OMMIRES 4 NOTATION OMM	SSUES
30 31 cven 32 cven 33	LIPICET OWNERS TREFFCTION CHAMBER TOWNERS CHAMBER TOWNERS CHAMBER TOWNERS TOWNE	ISSUES C	30 31 32 0VEN 33	LIUNG OHAMBER ZOMPER OHAMBER ZOMPER OHAMBER REPORT OHAMBER LIUNG OHAMBER LIUNG OHAMBER ZOMPER OHAMBER LIUNG OHAMBER ZOMPER OHAMBER LIUNG OHAMBER	SOUES SOUES
30 GVEN 31 GVEN 32 GVEN 33	LINGET OWNERS TERRECTION CHAMBER LIDER CHAMBER L	ISSUES C	30 31 32 0VEN 33	LIDING OMMIRES 1 MONTETION COMMIRES 1 MONTETION COMMIRES 1 MONTETION COMMIRES 1 MONTETION COMMIRES 1 LIDING OMMIRES 1 LIDING OMMIRES 1 MONTETIONS COMMIRES 1 MONTETIONS COMMIRES 1 LIDING OMMIRES 1 LIDING OMMIRES 1 LIDING OMMIRES 1 MONTETIONS COMMIRES 1 LIDING COMMIRES 1	SOUES SOUES
30 31 cven 32 cven 33	L SHORT OWNERS. 1 SAMPE DIAMES 1 SAMPE DIAMES 1 SAMPE DIAMES 1 SAMPE DIAMES 1 SON OWNERS 1 SON OWNERS 1 SON OWNERS 1 SAMPE DIAMES 1 SON OWNERS 1 SAMPE DIAMES 1 SON OWNERS 1 SAMPE DIAMES 1 SON OWNERS 2 SON OWNERS 1 SON OWNERS 2 SON OWNERS 1 SON OWNERS	ISSUES C	30 31 32 0ven 33	LIONG OMMINIER 1 MOPET OMMINIER 1 MOPET OMMINIER 1 MOPET OMMINIER 1 MOPET OMMINIER 1 JOHN JOHN OMMINIER 1 JOHN JOHN JOHN JOHN JOHN JOHN JOHN JOHN	SOUES SOUES
30 31 500 32 500 33 500 34	LIPICETO COMPIER TERRECTION COMMENT TOANERS CHAMMER LUDES COMPIER LUDES LIPICATO COMMINIS LIPICATO COMMINIS TOANERS LIPICATO COMMINIS TOANERS LIPICATO COMMINIS LIPICATO COMINIS LIPICATO COMIN	ISSUES COMES	30 31 32 5000 33 5000 34	LILDING CHAMBER JAMPER CHAMBER JAMPER CHAMBER JAMPER CHAMBER LILDING CHAMBER LILDING CHAMBER JAMPER CHAMBER	SOUES SOUES
30 31 500 32 500 33 500 34	LINGET CHANNER TEARPET	ISSUES COMES	30 31 32 0VEN 33	LIDING OMMINIST THE STATE OF T	SOUES SOUES
30 31 32 600 33 600 34 600	LIPICET COMMERS I DAMPER CHAMMER I LORG COMMERS LIPICATION CHAMMER I LORG COMMERS LIPICATION CHAMMER	ISSUES COMES	30 31 32 32 33 33 34	LIDING OMMINIER TAMPET ONLOWER TAMPET ONLOWING TAMPET	SOUES SOUES
30 648 31 648 32 648 33 648 34 648 35	LINGET COMMENT TOTALFER CHANGE LIDES COMMENT LID	ISSUES COMES	30 31 32 32 33 33 34	LILDING CHAMBER THER TO CHAMBER THER THER TO CHAMBER THER THER TO CHAMBER THER TO CHAMBER THER TO CHAMBER THER TO CHAMB	SOUES SOUES
30 648 31 648 32 648 33 648 34 648 35	LIPICETO COMPIER TARRECTION COMMENT TARRECTION COMMENT TARRECTION COMMENT TARRECTION COMMENT TO SERVICE COMMENT TO SERVICE COMMENT TO SERVICE COMMENT TARRECTION COMMENT TARRECTI	ISSUES COMES	30 31 32 5000 33 5000 34	LIUNG OHAMBER 1 MENTETTON OHAMBER	SOUES SOUES
30 50EN 31 50EN 32 50EN 33 50EN 34 50EN 50EN 35	L SHORT OWNERS TO AMPER CHAMMER L LONG OWNERS L	ESUES COMES	30 31 32 0VEN 33 0VEN 34 0VEN 35	LILUNG CHAMBER LICHON CHAMBER	SSUES SSUES SSUES
30 648 31 648 32 648 33 648 34 648 35	LINGER OWNERS TEAMPER CHANNES LIDING OWNERS LIDI	ISSUES COMES IS	30 31 32 32 33 33 34	LILDING CHAMBER THERT CHAMBER THER	SOUES SOUES
30 SVEN 31 SVEN 33 SVEN 34 SVEN 35 SVEN	LIPICET COMMENT TORNETS CHAMBES LIDES CHAMBES LI	ESUES COMES	30 31 32 0VEN 33 0VEN 34 0VEN 35	LIDING CHAMBER JAMPER CHAMBER JAMPER CHAMBER JAMPER CHAMBER LIDING CHAMBER LIDING CHAMBER JAMPER CHAMBER	SSUES SSUES SSUES
30 CVEN 31 32 CVEN 33 CVEN 34 CVEN 35 CVEN 36	LINGER OWNERS TERRETION CHAMES LIDES CHAME	ESUES COMES	30 31 32 0VEN 33 0VEN 34 0VEN 35	LILDING CHAMBER THORTOCO CHAM	SSUES SSUES SSUES
30 CVEN 31 32 CVEN 33 CVEN 34 CVEN 35 CVEN 36	LIPICET OLAMBER LIPICETORI CHAMBER LIPICETOR	ESUES COMES	30 31 32 0VEN 33 0VEN 34 0VEN 35	LILDING CHAMBER LARRICTORI CHAMBER LARRICTORI CHAMBER LILDING CHAMBER	SSUES SSUES SSUES
30 CVEN 31 32 CVEN 33 CVEN 34 CVEN 35 CVEN 36	LINGET CHAMBER TOWNERS CHAMBER LUDIS CHAMBER LUD	ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES	30 31 32 OVEN 33 OVEN 34 OVEN 35 OVEN 36	LILDING CHAMBER 1 MERITATION CHAMBER 1 MER	SSUES SSUES SSUES SSUES
30 CVEN 31 32 CVEN 33 CVEN 34 CVEN 35 CVEN 36	LIPICET COMMENT I DAMPER DISAMEN I LORS COMMENT I DAMPER DISAMEN I LORS COMMENT I SHORT COMMENT I SHOR	ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES	30 31 32 0VEN 33 0VEN 34 0VEN 35	LILUNG CHAMBER TRENTATION CHAMBER TRENTATION CHAMBER TRENTATION CHAMBER TRENTATION CHAMBER TRENTATION CHAMBER TO CHAMBER THE TO CHAMBER	SSUES SSUES SSUES
30 CVEN 31 CVEN 33 CVEN 34 CVEN 35 CVEN 36 CVEN	LIPICET COMMENT TRANSPER CHAMMER LUDES COMMENT TRANSPER CHAMMER LUDES COMMENT TRANSPER CHAMMER LUDES COMMENT TRANSPER CHAMMER LUDES LUD	ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES	30 OVEN 31 OVEN 32 OVEN 33 OVEN 34 OVEN 35 OVEN 36 OVEN	LILDING CHAMBER JOANNERS CHAMBER LINGS CHAMBER LILDING	SSUES SSUES SSUES SSUES
30 CVEN 31 CVEN 33 CVEN 34 CVEN 35 CVEN 36 CVEN	LINGER OWNERS TERRETION CHAMBER LIDER CHAMBER LI	ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES	30 OVEN 31 OVEN 32 OVEN 33 OVEN 34 OVEN 35 OVEN 36 OVEN	LILDING CHAMBER THORTCON CHAM	SSUES SSUES SSUES SSUES
30 CVEN 31 CVEN 33 CVEN 34 CVEN 35 CVEN 36 CVEN	L PICET COMMERS L PORTO COMMERS L PORT	ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES	30 31 32 OVEN 33 OVEN 34 OVEN 35 OVEN 36	LILDING CHAMBER JOANNERS CHAMBER LINGS CHAMBER LILDING	SSUES SSUES SSUES SSUES
30 CVEN 31 CVEN 33 CVEN 34 CVEN 35 CVEN 36 CVEN	LINGER OWNERS TERRETION CHAMBER LIDER CHAMBER LI	ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES	30 OVEN 31 OVEN 32 OVEN 33 OVEN 34 OVEN 35 OVEN 36 OVEN	LILDING CHAMBER 1 MORTETORIO CHAMBER 1 MOR	SSUES SSUES SSUES SSUES SSUES
30 CVEN 31 CVEN 33 CVEN 34 CVEN 35 CVEN 36 CVEN	LIPICET CHANGES I SENTETTION CHANGES I SENTETTION CHANGES I SINGETTION CHANGES I SINGETION CHANGE	ESUES COMES ESUES COMES ESUES COMES ESUES COMES ESUES COMES	30 OVEN 31 OVEN 32 OVEN 33 OVEN 34 OVEN 35 OVEN 36 OVEN	LILDING CHAMBER J. MEMPET CHAMB	SSUES SSUES SSUES SSUES
30 cven 31 cven 33 cven 34 cven 35 cven 36 cven 37 cven	LIPICET COMMENT TORNETS CHAMBES LUDES CHAMBES LU	ESUES COMES ESUES COMES ESUES COMES ESUES COMES ESUES COMES	30 OVEN 31 OVEN 32 OVEN 33 OVEN 35 OVEN 36 OVEN 37	LILDING CHAMBER LINGTON CHAMBER LINGTO	SSUES SSUES SSUES SSUES SSUES
30 cven 31 cven 33 cven 34 cven 35 cven 36 cven 37 cven	LIPICET CHANGES I SENTETTION CHANGES I SENTETTION CHANGES I SINGETTION CHANGES I SINGETION CHANGE	ESUES COMES ESUES COMES ESUES COMES ESUES COMES ESUES COMES	30 OVEN 31 OVEN 32 OVEN 33 OVEN 35 OVEN 36 OVEN 37	LILDING CHAMBER J. MEMPET CHAMB	SSUES SSUES SSUES SSUES SSUES
30 CVEN 31 32 CVEN 33 CVEN 34 CVEN 35 CVEN 36 CVEN 37 CVEN	LINGET CHANGES TOWNERS TOWNERS CHANGES TOWNERS ESUES COMES ESUES COMES ESUES COMES ESUES COMES ESUES COMES	30 31 32 OVEN 33 OVEN 34 OVEN 35 OVEN 36 OVEN 37	LILDING CHAMBER LINGTON CHAMBER LINGTO	SSUES SSUES SSUES SSUES SSUES	
30 CVEN 31 32 CVEN 33 CVEN 34 CVEN 35 CVEN 36 CVEN 37 CVEN	LIPICET COMMERS LIPICATION COMMERS	ESUES COMES ESUES COMES ESUES COMES ESUES COMES ESUES COMES	30 OVEN 31 OVEN 32 OVEN 33 OVEN 35 OVEN 36 OVEN 37	LILDING CHAMBER THENTATION CHAMBER THENTATIO	SSUES SSUES SSUES SSUES SSUES
30 CVEN 31 32 CVEN 33 CVEN 34 CVEN 35 CVEN 36 CVEN 37 CVEN	LIPICET COMMENT TRANSCRIPTO COMMENT TOAMPER CHAMMER LUDES COMMENT L	ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES	30 OVEN 31 OVEN 32 OVEN 33 OVEN 35 OVEN 36 OVEN 37	LIDING CHAMBER THORTON	SSUES SSUES SSUES SSUES SSUES
30 OVEN 31 32 OVEN 33 OVEN 34 OVEN 36 OVEN 37 OVEN 38 OVEN	LINGER COMMISS. 1 DANFER CHAMMER 1 DANFER CHAMMER 1 LINGER CHAMMER 1 LING	ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES	30 31 32 DVEN 33 DVEN 34 DVEN 35 DVEN 36 DVEN 37 DVEN 38	LIDING CHAMBER THORTON	SSUES SSUES SSUES SSUES SSUES
30 OVEN 31 32 OVEN 33 OVEN 34 OVEN 36 OVEN 37 OVEN 38 OVEN	L PICERT COMMISSION I DAMPER CHAMMER I LORGE COMMISSION I DAMPER CHAMMER I LORGE COMMISSION I SINCETTO CHAMMER I LORGE COMMISSION I LORGE C	ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES	30 OVEN 31 OVEN 32 OVEN 33 OVEN 35 OVEN 36 OVEN 37 OVEN 38	LILDING CHAMBER LIMPACTION CHAMBER LIMPACTION CHAMBER LIMPACTION CHAMBER LICHIO CHAMBER L	SSUES SSUES SSUES SSUES SSUES
30 CVEN 32 CVEN 33 CVEN 34 CVEN 35 CVEN 36 CVEN 37 CVEN 38 CVEN	LIPICET CHAMBER TERRECTION CHAMBER TOANNER CHAMBER TOA	ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES	30 31 32 DVEN 33 DVEN 34 DVEN 35 DVEN 36 DVEN 37 DVEN 38	LIDING CHAMBER LIGHTON CHAMBER LIGHTON CHAMBER LIDING CHAMB	SSUES SSUES SSUES SSUES SSUES
30 CVEN 32 CVEN 33 CVEN 34 CVEN 35 CVEN 36 CVEN 37 CVEN 38 CVEN	LIPICET CHANGES LIPICATO CHAN	ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES ESSUES	30 OVEN 31 OVEN 32 OVEN 33 OVEN 35 OVEN 36 OVEN 37 OVEN 38	LILDING CHAMBER LIMPET CHAMBER LICHAN CHAMBE	SSUES SSUES SSUES SSUES SSUES

ATTACHMENT C (CONTINUED) – OVEN HEALTH INSPECTION SUMMARY FORM – SOLE FLUE

OVEN	FLUE	ISSUES	OVEN	FLUE	ISSUES
	1 SHORT CHAMBER			1 LONG CHAMBER	
40	2 INSPECTION DIAMBER		40	2 DAMPER DAMBER	
40	3 DAMPER CHAMBER		40	3 NEFECTION CHAMEER	
	410YO CHAMBER			4 SHORT CHAMBER	
OVEN	FLUE	ISSUES	OVEN	PLUE	KSUES
	1 SHORT CHAMSER			1 LONG CHAMBER	
41	2 INSPECTION CHAMBER		41	2 DAMPER CHAMBER	
41	3 DAMPER CHAMBER		41	3 INSPECTION CHAMBER	
	4 LONG CHAUBER			4 SHORT CHAMBER	
OVEN	FLUE	153UE3	OVEN.	FLUE	ISSUES
	1 SHORT CHAMGER			LLONG CHAMBER	
42	2 INSPECTION CHAMBER		42	2 DAMPER CHAMBER	
44	S DAMPER CHAMBER		42	3 INSPECTION CHAMBER	
	410YO CHAMBER			4 SHORT CHAMBER	
OVEN	FILLE	ISSUES-	OVEN	FLUE	KSUES
	1 SHORT CHAMBER			LLONG-CHAMBER	
12	2 INSPECTION CHAMBER		43	2 DAMPER CHAMBER	
43	TO DAMPER CHAMBER		43	3 INSPECTION CHAMBER	
	4 LONG CHAMBER			4 SHORT CHAMBER	
OVEN	FLUE	ISSUES	OVEN	PLUE	ISSUES
	1 SHORT CHAMBER			LEONG CHAMBER	
44	2 INSPECTION CHAMBER		11	2 DAMPER CHAMBER	
44	3 DAMPER CHAMBER		44	3 INSPECTION CHAMBER	
	410NO CHAMBER			4 SHORT CHAMBER	
OVEN	FLUE	ISSUES:	OVEN.	FLUE	ISSUES
	1 SHORT CHAMBER			LILONG CHAMBER	
45	2 INSPECTION DIAMBER		45	2 DAMPER DIAMBER	
43	2 DAMPER CHAMBER		43	3 NEFESTON CHANGER	
	4 LONG CHAMBER			4 SHORT CHAMBOR	
OVEN	FLUE	issues:	OVEN	FLUE	ISSUES
	1 SHORT CHAMBER			LICING CHAMBUR	
16	2 INSPECTION CHAMBER		16	2 DAMPER CHAMBER	
46	5 DANAPER CHANGES		46	3 INSPECTION CHANGER	
	4 LONG CHAMBER			4 SHORT CHAMBER	
OVEN	FLUE	ISSUES-	OVEN.	FLUE	ISSUES
	1 SHORT CHAMBER			1 LONG CHAMBUR	
17	2 INSPECTION DIAMBER		17	2 DAMPER DIAMBER	
47	DAMPER CHAMBER		4/	J INFECTION CHAMED!	
	4 LONG CHAMBER			4 SHORT CHAMBON	
OVEN	FLUE	issurs .	OVEN	TILLE	ISSUES
	1 SHORT CHANGER			LICHS CHANGER	
10	2 INSPECTION CHAMBER		10	2 DAMPER CHAMBER	
48	3 DAMPER CHAMBER		48	3 INSPECTION CHANGER	
	4 LONG CHAMBER			4 SHORT CHAMBER	
OVEN	FLUE	ISSUES	OVEN	FLUE	issues
	1 SHORT CHAMBER			1 LONG CHAMBER	
40	2 INSPECTION CHAMBER		40	2 DAMPER CHAMBER	
49	3 DAMPER CHAMBER		49	3 INSPECTION CHAMED	
	4 LONG CHAMBER			4 SHORT CHAMBER	
OVEN	FLUE	ISSUES:	OVEN	FLUE	discuss.
OVEN	FLUE 1 SHORT CHAMBER	ISSUES	OVEN	FLUE 1 LONG CHAMBER	deues
OVEN		issues			GEUES
50	1 SHORT CHAMBER	issues	50	1 LONG CHAMBER	stores
50	1 SHORT CHAMBER 2 INSPECTION CHAMBER	isues		2 DAMPER CHAMBER	arces
50	1 SHORT CHAMBER 2 INSPECTION CHAMBER 3 DAMPER CHAMBER	153UES		2 DAMPER CHAMBER 3 INSPECTION CHAMBER	arces (SSUES
	1 SHORT CHAMBER 2 INSPECTION CHAMBER 3 DAMPER CHAMBER 4 LONG CHAMBER		50	1 LONG CHAMBER 2 DAMPER CHAMBER 3 INSPECTION CHAMBER 4 SHORT CHAMBER	
OVEN	1 SHORT CHAMBER 2 INSPECTION CHAMBER 3 DAMPER CHAMBER 4 LOHS CHAMBER FLUE 1 SHORT CHAMBER 2 INSPECTION CHAMBER		50	LIONS CHAMBER 2 DAMPER CHAMBER 3 INSPECTION CHAMBER 4 SHOPT CHAMBER FLUE 1 LONG CHAMBER 2 DAMPER CHAMBER	
	2 SHORT CHAMBER 2 INSPECTION CHAMBER 5 DIAMPER CHAMBER 4 LONG CHAMBER FLUE 2 SHORT CHAMBER 2 INSPECTION CHAMBER 3 DIAMPER CHAMBER		50	LLONG CHAMBER 2 DAMPER CHAMBER 3 INSPECTION CHAMBER 4 SHORT CHAMBER FLUE 1 LIDING CHAMBER 2 DAMPER CHAMBER 3 REPECTION CHAMBER	
51	1 SHORT CHAMBER 2 INSPECTION CHAMBER 3 DAMPER CHAMBER 4 LONG CHAMBER FLUE 1 SHORT CHAMBER 2 INSPECTION CHAMBER 2 DAMPER CHAMBER 4 LONG CHAMBER	ISSUES	50 51	LLONG CHAMBER 2 DAMPER CHAMBER 3 INSPECTION CHAMBER 4 SHORT CHAMBER LLONG CHAMBER LLONG CHAMBER 2 DAMPER CHAMBER 4 SHORT CHAMBER 4 SHORT CHAMBER 4 SHORT CHAMBER	SSUES
OVEN	1 BHORT CHAMBER 2 INSPECTION CHAMBER 3 DHAMPER CHAMBER 4 LONG CHAMBER 5 LONG CHAMBER 2 INSPECTION CHAMBER 2 DHAMPER CHAMBER 4 LONG CHAMBER 5 LONG CHAMBER 5 LONG CHAMBER 5 LONG CHAMBER 5 LONG CHAMBER 5 LONG CHAMBER 5 LONG		50	LIONG CHAMBER 2 DMAPER CHAMBER 3 DMAPER CHAMBER 4 SHORT CHAMBER 4 SHORT CHAMBER 1 LIONG CHAMBER 2 DMAPER CHAMBER 3 PERFECTION CHAMBER 5 SHORT CHAMBER 5 LIUE 5 SHORT CHAMBER 5 LIUE 5 LIUE 5 SHORT CHAMBER 5 LIUE	
51	1 SHORT CHAMBER 2 NERVICTION CHAMBER 3 NERVICTION CHAMBER 4 LOVIS CHAMBER 4 LOVIS CHAMBER 1 SHORT CHAMBER 2 SHERVICTION CHAMBER 4 LOVIS CHAMBER 4 LOVIS CHAMBER 1 SHORT CHAMBER 1 SHORT CHAMBER	ISSUES	50 51	LONG CHAMBER 2 DAMPER CHAMBER 3 INSTRECTION CHAMBER 4 SHORT CHAMBER LUMG CHAMBER 1 LUMG CHAMBER 2 DAMPER CHAMBER 3 INSTRECTION CHAMBER 4 SHORT CHAMBER 5 LUMG CHAMBER 5 LUMG CHAMBER 5 LUMG CHAMBER 5 LUMG CHAMBER	SSUES
51	1 SHORT CHAMBER 2 INSPECTION CHAMBER 3 INSPECTION CHAMBER 4 LOVID CHAMBER 5 LUE 2 SHORT CHAMBER 2 INSPECTION CHAMBER 4 LOVID CHAMBER 4 LOVID CHAMBER 5 LICHT CHAMBER 7 LICHT C	ISSUES	50 EVEN 51	LLONG CHAMBER ZDMINTER CHAMBER ZDMINTER CHAMBER A SHOTT CHAMBER FLUE ZDMINTER CHAMBER ZDMINTER CHAMBER A SHOTT CHAMBER ZDMINTER CHAMBER ZDMINTER CHAMBER ZDMINTER CHAMBER ZDMINTER CHAMBER ZDMINTER CHAMBER ZDMINTER CHAMBER	SSUES
51	1 SHORT CHAMBER 2 NERFICTION CHAMBER 3 NERFICTION CHAMBER 4 LOVID CHAMBER 4 LOVID CHAMBER 2 INSPECTION CHAMBER 2 INSPECTION CHAMBER 2 INSPECTION CHAMBER FILLE 1 SHORT CHAMBER 7 LIFE CHAMBER 7 LIFE CHAMBER 3 DAMPER CHAMBER 3 ORANGER CHAMBER 3 ORANGER 3 ORAN	ISSUES	50 51	LONG CHAMBER 2 DAMPER CHAMBER 3 HOPECTON CHAMBER 4 SHORT CHAMBER 1 LONG CHAMBER 2 DAMPER CHAMBER 2 DAMPER CHAMBER 4 SHORT CHAMBER 1 LONG CHAMBER 2 DAMPER CHAMBER 1 LONG CHAMBER 2 DAMPER CHAMBER 2 DAMPER CHAMBER 3 HOPECTON CHAMBER 3 HOPECTON CHAMBER 3 HOPECTON CHAMBER 3 HOPECTON CHAMBER	SSUES
51 0ven 52	LINGET CHAMBER 2 INSPECTION CHAMBER 2 INSPECTION CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 2 INSPECTION CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 5 LINE 5 INSPECTION CHAMBER 7 LINE 1 INSPECTION CHAMBER 7 LINE 1 INSPECTION CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 5 LUCYC CHAMBER 5 LUC	ISSUES	50 51 cven 52	LONG CHANNER DIMMER CHANNER SINCHCENON CHANNER A SHORT CHANNER LUNE DIMMER CHANNER LUNE DIMMER CHANNER LUNG CHANNER LUNG COMMER LUNG COMMER LUNG COMMER LUNG COMMER LUNG SINCHCHANNER DIMMER SINCHCHANNER	issues institutes
51	L SHORT CHAMBER 2 DISPECTION CHAMBER 3 DIAMPER CHAMBER 4 LONG CHAMBER L SHORT CHAMBER 2 SHORT CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 5 DIAMPER CHAMBER 1 SHORT CHAMBER 1 SHORT CHAMBER 1 SHORT CHAMBER 1 SHORT CHAMBER 4 LONG CHAMBER 4 LONG CHAMBER 5 DIAMPER CHAMBER 6 LONG CHAMBER 8 LUE 8 LUE 8 CHAMBER 8 LUE 8 LUE 8 CHAMBER 8 LUE	ISSUES	50 EVEN 51	LLONG CHANBER 2 PAMIFER CHANBER 3 PROFECTION CHANBER 4 SHORT CHANBER LLONG CHANBER 2 PAMIFER CHANBER 2 PAMIFER CHANBER 3 PROFECTION CHANBER 4 SHORT CHANBER 2 LLONG CHANBER 3 INFECTION CHANBER 4 SHORT CHANBER 5 INFECTION CHANBER 4 SHORT CHANBER 4 SHORT CHANBER 5 INFECTION CHANBER 4 SHORT CHANBER 5 INFECTION	SSUES
51 0ven 52	1 JINOPET CHAMBER TOPOSTORIO CONNUER TOPOSTORIO CONNUER TOPOSTORIO	ISSUES	50 51 cven 52	LONG CHARGER DIMERT CHARGER DIMERT CHARGER A SHORT CHARGER LONG CHARGER LUE LUGIS CHARGER FLUE LUGIS CHARGER	issues institutes
51 0ven 52 0ven	1 эксит симавки помета и пиросто объемой помета объемой объем	ISSUES	50 51 cven 52	LIONS CHANBER JOHAFER GWANEE JOHAFER GWANEE JOHAFER GWANEE LIONS CHANBER LIONS CHANBER JOHAFER GWANEE JOHAFER GWANEE JOHAFER GWANEE LIONS CHANBER LIONS CHANBER JOHAFER GWANEE LIONS CHANBER	issues institutes
51 0ven 52	2 JACKET CHAMBER TOPSCHOOL CHA	ISSUES	50 51 cven 52	LONG CHAMBER JOHNER OWNNER JOHNER OWNNER ASHOTICON CHAMBER ASHOTICON CHAMBER LIONG CHAMBER LIONG CHAMBER JOHNER OWNNER JOHNER OWNNER LIONG CHAMBER ASHOTICHAMBER LIONG CHAMBER LIONG CHAMBER LIONG CHAMBER LIONG CHAMBER LIONG CHAMBER ASHOTICHAMBER ASHOTICHAMBER JUNES CHAMBER LIONS CHAMBER JOHNER CHAMBER JOHNER CHAMBER JOHNER CHAMBER JOHNER CHAMBER JOHNER CHAMBER JOHNER CHAMBER	issues institutes
51 52 0vin 53	1 BICHT CHAMBER TIMPECTION CHAMBER TOMPECTION CHAMBER TOMPECTION CHAMBER TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	ISSUES ISSUES	50 51 coven 52 coven 53	LONG CHANBER JOHAFER GWANEE JAROFCONO CHANBER A SHOPT CHANBER LUNE COMMICE JOHAFER CHANBER FALE LONG CHANBER FALE JOHAFER CHANBER FALE JOHAFER CHANBER	asues asues
51 0ven 52 0ven	2 JACKET CHAMBER J DEMPTER CHAMBER J DEMPTER CHAMBER ALDRIS CHAMBER LINESCEND CHAMBER ALDRIS CHA	ISSUES	50 51 cven 52	LLONG CHANNER 2 DAMPER CHANNER 3 PROPECTION CHANNER 4 SHORT CHANNER LLONG CHANNER 2 DAMPER CHANNER LLONG CHANNER 3 PROPECTION CHANNER 4 SHORT CHANNER 2 LLONG CHANNER 3 PROPECTION CHANNER 4 SHORT CHANNER 4 SHORT CHANNER 5 INDECTION CHANNER 4 SHORT CHANNER 1 LLONG CHANNER 1 LLONG CHANNER 1 COMPACTION CHANNER 4 SHORT CHANNER 1 PROPECTION CHANNER 4 SHORT CHANNER 1 PROPECTION CHANNER 4 SHORT CHANNER 1 PROPECTION CHANNER 1 PROPECTION CHANNER 4 SHORT CHANNER 1 PROPECTION CHANNER 1	issues institutes
51 52 0ven 53 0ven	1 SIGHT CHAMBER TONSCTION CHAMBER TONSCTION CHAMBER TONSCTION CHAMBER TONSCTION CHAMBER TOUR 1 SIGHT CHAMBER TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOU	ISSUES ISSUES	50 00EN 51 00EN 52 00EN 53	LONG CHANNER JOHNTER CHANGER JINDYCCHO CHANGER JINDYCCHO CHANGER JOHNTO CHANGER LUNE JOHNTO CHANGER JOHNTO CHANGER JOHNTO CHANGER LUNE JOHNTER CHANGER JUNE	asues asues
51 52 0ven 53 0ven	1 SIGNEY CHAMBER TOPPECTOR CHA	ISSUES ISSUES	50 00EN 51 00EN 52 00EN 53	LIONS CHANNER JOHAFER GWANEE JROYCCOO CHANNER 4 SHORT CHANNER LIONS CHANNER LIONS CHANNER JOHAFER GWANEE JOHAFER GWANEE JOHAFER GWANEE LIONS CHANNER JICHTECTON CHANNER ASSETT CHANNER LIONS CHANNER JICHTECTON CHANNER JICHTECTON CHANNER JICHTECTON CHANNER LIONS CHANNER	asues asues
51 52 0vin 53	2 БИСИТ СИМВЕК З ТИРЕСТОИ СИМВЕК	ISSUES ISSUES	50 51 coven 52 coven 53	JUNIS CHAMBER JOHNTER CHAMBER JUNIS CHAMBER	asues asues
51 0ven 52 0ven 53 0ven 53	1 SIGNEY CHAMBER TOPPECTOR CHA	ISSUES ISSUES	50 51 52 000 53 0000 54	LIONS CHANNER JOHAFER GWANEE JROYCCOO CHANNER 4 SHORT CHANNER LIONS CHANNER LIONS CHANNER JOHAFER GWANEE JOHAFER GWANEE JOHAFER GWANEE LIONS CHANNER JICHTECTON CHANNER ASSETT CHANNER LIONS CHANNER JICHTECTON CHANNER JICHTECTON CHANNER JICHTECTON CHANNER LIONS CHANNER	ISSUES INSUES INSUES INSUES
51 52 0ven 53 0ven	L BIODET CHAMBER TORSTCHON TORSTCH	ISSUES ISSUES	50 00EN 51 00EN 52 00EN 53	LLONG CHANNER 2 DAMPER CHANNER 3 PROPECTION CHANNER 4-SHORT CHANNER 1-LONG CHANNER 1-LONG CHANNER 2 DAMPER CHANNER 1-LONG CHANNER 2 DAMPER CHANNER 1-LONG CHANNER 2 DAMPER CHANNER 3 PROPECTION CHANNER 4-SHORT CHANNER 1-LONG CH	asues asues
51 0ven 52 0ven 53 0ven 54 0ven	LINCHT CHAMBER JORATCH CHAMBER JORATCH CHAMBER JORATCH CHAMBER LUCE LINCHED CHAMBER LUCE LUCE LINCHED CHAMBER LUCE LUCE LUCE LUCE LUCE LUCE LUCE LUCE	65UES 65UES	50 51 52 0000 53 0000 54 0000	LONG CHANGER JORAPER CHANGE JORAPER CHANGE JORAPER CHANGE LONG CHANGE LONG CHANGE LONG CHANGE JORAPET CHANGE LONG CHANGE JORAPET CHAN	ISSUES INSUES INSUES INSUES
51 52 0ven 53 0ven 53 0ven 54 0ven	LINCHE CHAMBER JORAFER CHAMBER	65UES 65UES	50 51 52 0000 53 0000 54 0000	LIONS CHANNER JOHNER GWANER JOHNER GWANER A SHOPE CHOOL CHANNER LIONS CHANNER LIONS CHANNER LIONS CHANNER JOHNER GWANER JOHNER GWANER JOHNER GWANER JOHNER GWANER JOHNER GWANER LIONS CHANNER A SHOPE CHANNER A SHOPE CHANNER LIONS CHANNER JIOPECTOR CHA	ISSUES INSUES INSUES INSUES
51 0ven 52 0ven 53 0ven 54 0ven	LINCHT CHAMBER JONATCH CHAMBER JONATCH CHAMBER JONATCH CHAMBER LINCH CHA	65UES 65UES	50 51 52 000 53 0000 54	JUMPS CHAMBER JOHANER CHAMBER JOHANER CHAMBER A SHOPE CHAMBER LUME CHAMBER LUME CHAMBER JOHN CHAMBER A SHOPE CHAMBER JOHN CHAMBER JUMP	ISSUES INSUES INSUES INSUES
51 52 0ven 53 0ven 53 0ven 54 0ven	LINCHE CHAMBER JORAFER CHAMBER	65UES 65UES	50 51 52 53 6000 54 6000 55	LONG CHANNER JOHATER GWANEE JOHATER GWANEE JOHATER GWANEE LUNG CHANNER LUNG CHANN	ISSUES INSUES INSUES INSUES
51 52 0ven 53 0ven 53 0ven 54 0ven	1 SIGHT CHAMBER TONNICTION CHAMBER TONNICTION CHAMBER TONNICTION CHAMBER TOUR 1 SHORT CHAMBER 1 SHORT CHAM	65UES 65UES	50 51 52 0000 53 0000 54 0000	LONG CHANNER DIMATE OWNER SINCECTION CHANNER A SHORT CHANNER LUNE LUNE CHANNER LUNE LUNE CHANNER LUNE LUNE CHANNER LUNE LUNE LUNE LUNE LUNE LUNE LUNE LUN	ISSUES INSUES INSUES INSUES
51 52 0VEN 53 0VEN 54 0VEN 55	1 SIGHT CHAMBER 1 SIGHTCH ON CHAMBER 3 SAMPTER CHAMBER 4 LONG CHAMBER 2 SIGHTCH CHAMBER 2 SIGHTCH CHAMBER 1 SIGHTCH CHAMBER 1 SIGHTCH CHAMBER 1 LONG CHAMBER 1 LONG CHAMBER 1 SIGHTCH CHAMBER 1 SIGHTCH CHAMBER 2 SIGHTCH CHAMBER 1	ISSUES ISSUES ISSUES ISSUES ISSUES	50 51 52 53 6000 54 6000 55	LONG CHANGER JORATER GWANEE JORATER GWANEE JORATER GWANEE LONG CHANGER LONG CHANG	ISSUES INTUES INTUES INTUES INTUES INTUES
51 52 0ven 53 0ven 54 0ven 55	LINCHE CHAMBER JORNATION CHAMB	ISSUES ISSUES ISSUES ISSUES ISSUES	50 51 600 52 6000 53 6000 54 6000 55	JUMPER OWNMER JOHNSEN OWNMER JOHNSEN OWNMER JOHNSEN OWNMER JOHNSEN JOH	ISSUES INTUES INTUES INTUES INTUES INTUES
51 52 0VEN 53 0VEN 54 0VEN 55	1 SIGHT CHAMBER 1 SIGHTCH ON CHAMBER 3 SAMPTER CHAMBER 4 LONG CHAMBER 2 SIGHTCH CHAMBER 2 SIGHTCH CHAMBER 1 SIGHTCH CHAMBER 1 SIGHTCH CHAMBER 1 LONG CHAMBER 1 LONG CHAMBER 1 SIGHTCH CHAMBER 1 SIGHTCH CHAMBER 2 SIGHTCH CHAMBER 1	ISSUES ISSUES ISSUES ISSUES ISSUES	50 51 52 53 6000 54 6000 55	LONG CHANGER JORATER GWANEE JORATER GWANEE JORATER GWANEE LONG CHANGER LONG CHANG	ISSUES INTUES INTUES INTUES INTUES INTUES
51 52 53 53 54 54 55 0018 55 0018	LINCHE CHAMBER JORNATION CHAMB	ISSUES ISSUES ISSUES ISSUES ISSUES	50 51 52 0000 53 0000 54 0000 55 0000 56	JUMPS CHAMBER JOHANER GWANER JOHANER GWANER JOHANER GWANER LURE JUMPS CHAMBER JUMPS CH	ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES
51 52 0ven 53 0ven 54 0ven 55	1 SIGHT CHAMBER TONNICTION CHAMBER TONNICTION CHAMBER TONNICTION CHAMBER TOUR 1 SIGHT CHAMBER TOUR 2 SIGHT CHAMBER TOUR 2 SIGHT CHAMBER 2 SIGHT	ISSUES ISSUES ISSUES ISSUES ISSUES	50 51 600 52 6000 53 6000 54 6000 55	JUMPS CHANNER JOHANNE CHANNER JOHANNE CHANNER A SHORT CHANNER LUNE LUNE LUNE LUNE LUNE LUNE LUNE LUNE	ISSUES INTUES INTUES INTUES INTUES INTUES
51 52 52 001 53 001 54 001 55 001 55	LINCET CHAMBER TOPECTION CHAMBER TOPECTION CHAMBER TOPECTION CHAMBER TOPECTION CHAMBER LINCET LINCET CHAMBER LI	65UES 65UES 65UES 65UES	50 00000 51 00000 52 00000 53 00000 54 00000 55 00000 56	JUMPS CHAMBER JOHANER GWANER JOHANER GWANER JOHANER GWANER LURE JUMPS CHAMBER JUMPS CH	ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES
51 52 001N 53 001N 54 001N 55 54 001N 56	1 SIGHT CHAMBER TONNICTION CHAMBER TONNICTION CHAMBER TONNICTION CHAMBER TOUR 1 SIGHT CHAMBER TOUR 2 SIGHT CHAMBER TOUR 2 SIGHT CHAMBER 2 SIGHT	65UES 65UES 65UES 65UES	50 00000 51 00000 52 00000 53 00000 54 00000 55 00000 56	JUMPS CHANNER JOHANNE CHANNER JOHANNE CHANNER A SHORT CHANNER LUNE LUNE LUNE LUNE LUNE LUNE LUNE LUNE	ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES
51 52 52 001 53 001 54 001 55 001 55	LINCHE CHAMBER JIMPECTON CHAMB	65UES 65UES 65UES 65UES	50 51 52 0000 53 0000 54 0000 55 0000 56	JUMPS CHAMBER JOHANER GWANEE JOHANER GWANEE JOHANER GWANEE JUMPS CHAMBER	ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES
51 52 001N 53 001N 54 001N 55 54 001N 56	LINCHT CHAMBER JONECTION CHAMBER JONECTION CHAMBER JONECTION CHAMBER JONECTION CHAMBER JUNE LINCHT CHAMBER JUNE LINCHT CHAMBER JUNE LINCHT CHAMBER JOHNSCHON CHAMBER JUNE LINCHT CHAMBER JOHNSCHON JONECTION CHAMBER JUNE JUNE JUNE JUNE JUNE JUNE JUNE JUNE	65UES 65UES 65UES 65UES	50 00000 51 00000 52 00000 53 00000 54 00000 55 00000 56	JUMPS CHAMBER JIMPS CHAMBER JIMPS CHAMBER JIMPS CHAMBER LURE LURE CHAMBER LURE CH	ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES
51 52 001N 53 001N 54 001N 55 54 001N 56	1 SIGNET CHAMBER TONNICTION CHAMBER TONNICTION CHAMBER TONNICTION CHAMBER TOUR 1 SIGNET CHAMBER TOUR 1 SIGNET CHAMBER TOUR 1 SIGNET CHAMBER TOUR 1 SIGNET CHAMBER 1 SIGNET CHAMB	65UES 65UES 65UES 65UES	50 00000 51 00000 52 00000 53 00000 54 00000 55 00000 56	JUMPS CHAMBER JORATER OWNERS JORATER OWNERS JORATER OWNERS JUMPS CHAMBER JUM	ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES ISSUES
51 52 001N 53 001N 54 001N 55 54 001N 56	LINCET CHAMBER TOPECTION CHAMBER TOPECTION CHAMBER TOPECTION CHAMBER TOPECTION CHAMBER LINCELL	55455 55455 55455 55455	50 51 52 53 54 55 55 55 57	JUMPS CHAMBER JOHANER GWANER JOHANER GWANER A SHOPPECHOL OHMANIE A SHOPPECHOL OHMANIE A SHOPPECHOL OHMANIE A SHOPPECHOL OHMANIE JUMPS CHAMBER	ISSUES
51 52 0/18 53 0/18 54 0/18 55 0/18 56 0/18 57 0/18	LINCHT CHAMBER JONATCH CHAMBER JONATCH CHAMBER JONATCH CHAMBER JUNE LINCHTON CHAMBER JUNE LINCHTON CHAMBER JUNE JUNE JUNE JUNE JUNE JUNE JUNE JUNE	55455 55455 55455 55455	50 covex 51 covex 52 covex 53 covex 54 covex 55 covex 56 covex 57 covex	JUMP CHANNER JOHANNE CHANNER JOHANNE CHANNER JUMP CON CHANNER JUMP COMMITTE JUMP COMMITT	ISSUES
51 52 001N 53 001N 54 001N 55 54 001N 56	LINCHT CHAMBER JONETCHON CHAMBER JONETCHON CHAMBER JONETCHON CHAMBER LUCE LINCHE CHAMBER LUCH LUCE LUCE LUCE LUCE LUCE LUCE LUCE LUCE	55455 55455 55455 55455	50 covex 51 covex 52 covex 53 covex 54 covex 55 covex 56 covex 57 covex	JUMPS CHAMBER JOHAPER DAMAGE JOHAPER DAMAGE JOHAPER DAMAGE JOHAPER DAMAGE JUMPS CHAMBER FLUE JOHAPER DAMAGE JUMPS DAMAGE JOHAPER DAMAGE JUMPS DAMAGE	ISSUES
51 52 0/18 53 0/18 54 0/18 55 0/18 56 0/18 57 0/18	LINCHE CHAMBER JORDECTION CHAMBE	55455 55455 55455 55455	50 51 52 53 54 55 55 55 57	JUMPS CHAMBER JOHANER GWANEE JOHANER GWANEE JOHANER GWANEE JUMPS CHAMBER	ISSUES
51 52 0/18 53 0/18 54 0/18 55 0/18 56 0/18 57 0/18 58	LINCHE CHAMBER JIMPECTON CHAMB	65UES 65UES 65UES 65UES 65UES 65UES	50 covex 51 covex 52 covex 53 covex 54 covex 55 covex 56 covex 57 covex	JUMPS CHAMBER JORNICO CHAMBER JORNICO CHAMBER JUMPS CHAMBE	astues SSUES SSUES SSUES SSUES SSUES SSUES SSUES SSUES SSUES
51 52 0018 53 0018 54 0018 55 55 0018 56 0018 57 0018	LINCHT CHAMBER TONDECTION CHAMBER TONDECTION CHAMBER TONDECTION CHAMBER TONDECTION CHAMBER LINCH CHA	55455 55455 55455 55455	50 51 52 53 54 55 0000 56 0000 57 0000 58	JUMPS CHAMBER JORAPER OWNERS JORAPER OWNERS JORAPER OWNERS JUMPS COMMISS JUMPS COMISS JUMPS COMMISS JUMP	ISSUES
51 52 001N 53 001N 54 001N 55 001N 56 001N 57 001N 58	A SIGNET CHAMBER TONNICTION CHAMBER TONNICTI	65UES 65UES 65UES 65UES 65UES 65UES	50 coven 51 coven 52 coven 53 coven 55 coven 56 coven 57 coven 58 coven	JUMPS CHAMBER JIMPS	astues SSUES SSUES SSUES SSUES SSUES SSUES SSUES SSUES SSUES
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ATTACHMENT C (CONTINUED) – OVEN HEALTH INSPECTION SUMMARY FORM – SOLE FLUE

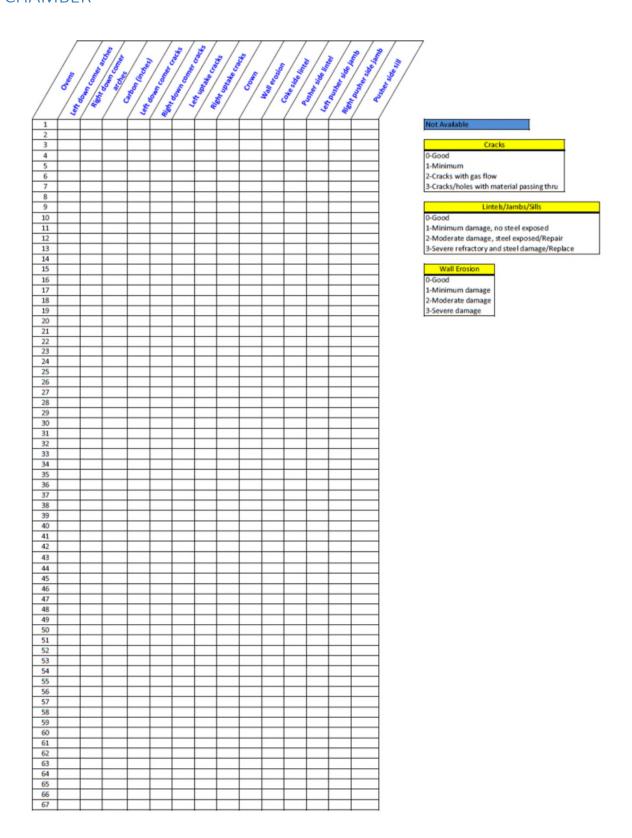
OVEN	FLUE	ISSUES	OVEN	FLUE	ISSUES
	1 SHORT CHAMBER			110WE CHAMBER	
CO	2 INSPECTION DIAMBER		CO	2 DAMPER CHAMBER	
60	3 DAMPER CHAMBER		60	3 INSPECTION CHAMBER	
	4 LONG CHAMBER			4 SHORT CHAMMER	
OVEN	FLUE	ISSUES	CVEN	FLUE	ISSUES
	1 SHOKE CHAMBER			1 LONG CHAMBER	
C1	2 INSPECTION CHAMBER		61	2 DAMPER CHAMBER	
61	S DAMPER CHAMBER		PI	3 INSPECTION CHAMBER	
	4 LONG CHAMBER			4 SHORT CHAMBER	
OVEN	FLUE	ISSUES	CIVEN	FLUE	ISSUES
	I SHORT CHAMBER			1 LONG CHAMBER	
62	2 INSPECTION CHAMBER		62	2 DAMPER CHAMBER	
OZ	2 DAMPER CHAMBER		62	3 INSPECTION CHAMBER	
	4 LONG CHAMBER			4 SHORT CHAMBER	
OVEN	FLUE	ISSUES	CIVEN	RUE	ISSUES
	1 SHORT CHAMBER			1 LONG CHAMBER	
63	2 INSPECTION CHAMBER		63	2 DAMPER CHAMBER	
03	3 DAMPER CHAMBER		03	3 INSPECTION CHAMBER	
	4 LONG CHAMBER			4 SHORT CHAMBER	
OVEN	FLUE	ISSUES	OVEN	FLUE	ISSUES-
	1.9KSAT CHAMBER			1 LONG CHAMBER	
64	3 INSPECTION CHAMBER		64	2 DAMPER CHAMBER	
04	S DAMPER CHAMES		04	3 INSPECTION CHAMBER	
	4 LONG CHAMBER			4 SHORT CHAMUER	
OVEN	FLUE	ISSUES.	OVEN	RUE	ISSUES
	1 SHORT CHAMBER			1 LONG CHAMBER	
65	2 INSPECTION CHAMBER		65	2 DAMPER CHAMBER	
05	B DAMPER CHAMBER		05	1. INSPECTION CHAMBER	
	4 LONG CHIMBER			4 SHORT CHAMBER	
OVEN	FLUE	ISSUES:	CVEN	FLUE	ISSUES
	1 SHORT CHAMBER			1 LONG CHAMBER	
66	2 INSPECTION CHAMBER		66	2 DAMPER CHAMBER	
00	I DAMPER CHAMBER		00	3 INSPECTION CHAMBER	
	ILLUNG CHAMBER			4 SHORT CHAMBER	
OVEN	FLUE	ISSUES	CVEN	FLUE	ISSUES
	1 910RT CHAMBER			1 LONG CHAMBER	
67	2 INSPECTION CHAMBER		67	2 DAMPER CHAMBER	
07	3 DAMPER CHANGES		0,	3 INSPECTION CHAMBER	
	4 LONG CHAMBER		I	4 SHORT CHAMILE	

ATTACHMENT D – OVEN HEALTH INSPECTION SUMMARY FORM – MECHANICAL

					/		/	/. /	_	/	/	/	10	/	//
		State of	Bud sign	A Buden	STAN BE	arrib ph	ate land	Plate	_		arr	Ethie Dat	e de	355	IN SOUTH
1	E AND	18 / S	- A	100	* \ \\	Pilip Pilip	The The	el piate	2 / 4º	ş (4)	40/	18	7	9	oll Both
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4															=
6															=
8															
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63 64 65															
66 67															=
6/		_	_	_		_	_					_	_	_	_

	Worst	to Least	
Air Space Beams	0	0	0
Left Buckstay	0	0	0
Right Buckstay	0	0	0
End Wall Beam	0	0	0
Left Jamb Plate	0	0	0
Right Jamb Plate	0	0	0
Lintel Plate	0	0	0
Bench	0	0	
Door	0	0	.0
Sill Beam	0	0	0
Sole Flue Damper	0	0	0
Top Tie Rods	0	0	0
Bottom Tie Rods			0

ATTACHMENT E – OVEN HEALTH INSPECTION SUMMARY FORM – OVEN CHAMBER



ATTACHMENT F - COMMON TUNNEL INSPECTION WORK ORDER



Work Order Details 1086667: D-battery oven crown area

BATTERY D

Asset: 43624

Inspection of oven crown area looking for cracks, openings in crowns, uptake piers, holes in elbows, dampers and transitions.

Location: 010D		BATTERY D								
Sched Start:			Site: IH	IH		Jof	Job Plan: 9342			
Sched Finish:			Priority:			Supe	Supervisor: DWLEROUX	ROUX		
Target Start: 4/29/18	1/29/18		Work Type: PM	PM			Lead:			
Target Finish: 4/30/18	1/30/18		Status: COMP	COMP			Crew:			
			Parent:							
			Failure Class: OVEN	OVEN						
Report Date: 4/24/18	1/24/18		Problem Code:							
Reported By: KDGRAPER	CDGRAPER									
			GL Account:	GL Account: 311.50642.101.111.000.000.0000	1.000.000.0000					
						Frequ	Frequency:	30	Units:	DAYS
Task IDs										
		Task ID Description								Status
		10 Obtain Perm	Obtain Permission to access battery	к						COMP
		Coordinate a inspected.	Coordinate access to the oven croinspected.	wn area and make s	Coordinate access to the oven crown area and make sure that pushing and charging is not occuring within the vicinity of the oven area being inspected.	rging is not occur	ing within the	vicinity of t	he oven area b	eing
		20 Perform Ove	Perform Oven Exterior Inspection							COMP
		Perform ove	n exterior inspection in	n accordance with O	Perform oven exterior inspection in accordance with OV-PRO-0606Oven Exterior Inspection	ior Inspection				
		Conditional	Classification folllow th	e Severe, Moderate	Conditional Classification folllow the Severe, Moderate, Minimal, and No Damage ranking system.	ge ranking system				
		30 Analysis and	Analysis and Reporting of the Results	JES THE						COMP
		Analyze the	crown data collected o	during the inspection	Analyze the crown data collected during the inspection and tabulate results into Oven Refractory Exterior Report	Oven Refractory	Exterior Repor	t		
		40 Enter WO's f	Enter WO's for Severe Classification Conditions Recorded	in Conditions Record	led					COMP
		Enter WO's f	or Severe Classification	in Conditions Record	Enter WO's for Severe Classification Conditions Recorded during exterior inspection	tion				
Planned Labor										
Task ID	Craft	Skill Level	Labor	Vendor	Contract	Qty	Hours		Rate	Line Cost
	-					,			***	1

00:15

9

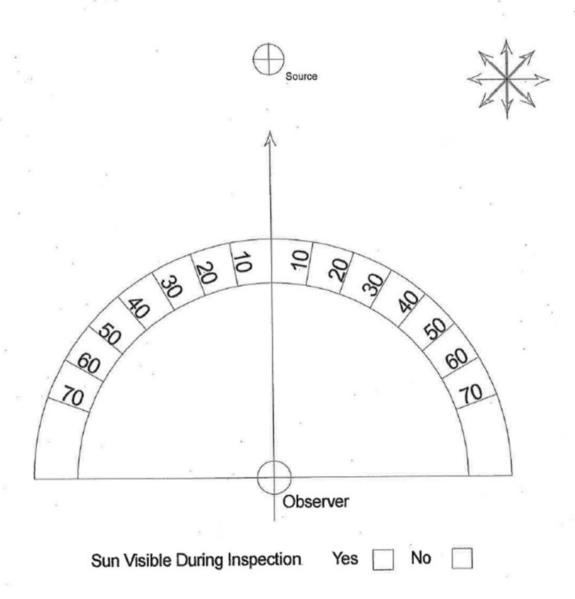
ATTACHMENT G - METHOD 9 INSPECTION FORM

SEC Method 9 VE Inspection Form

Date: Source: Observ. began: Observ. ended:					Ba	nission ickgrou	ind co			eginnin commen	
Observed from:					W	ind spe	ed:				
Distance to source:	_			feet		ind dir			_		
Direction to source:		***	****	****	W	mbient et bulb el. hum	temp.	:	**	*****	**** *********
Height of source: Vert. angle to source:	-	***	****	*****	K	a. num	idity 7	0.	_		
Plum type:	_		A	ttached					Sheet	_	of
							_				
Comments	0	15	30	45			0	15	30	45	Comments
		,		41	0	30					
					1	31					
					2	32					
					3	33					
					4	34					
					5	35					
					6	36					
					7	37					
					8	38					
					9	39					
					10	40					
					11	41					
	+				12	42					
	+			-	13	43	_				
	-				14	44				-	
	-		-		15	45					
	-				16	46					
	-				17	47	-				
	-		_		18	48	_		_		
	-			-			_		_	-	-
	+				19	49			_	-	
	-				20	50	_	-	_	-	
					21	51		-	_	-	
					22	52					
					23	53		_			
					24	54					
					25	55				\perp	
					26	56					
					27	57					
					28	58					
					29	59					
Observers signature					Additio	nal info.(include	steam di	ssipation	point if a	applicable):
_										_	
_											
_											
_							_				
_							_				
_				S	EC Metho	d9 VE I	nspecti	on Form	1		

Attachment G (CONTINUED) – Method 9 INSPECTION FORM

Date:	USEPA METHOD 9 Criteria Determination	Source Data:
Observer:		
Time Begin:	 	
Time End:	 ji.	



ATTACHMENT H - IHCC COKE OVEN LEAK RECORD

Use Or	Use Only Blue or Black Ink		HCC CC	KE OVE	IHCC COKE OVEN LEAK RECORD	ECORD SunCoke Energy
ATE:		Coke Over	n Leaks mu	ıst be exti	nguished in	Coke Oven Leaks must be extinguished in: 15 min P/S; 45 min C/S; 30 min Crown
ecord all to	ecord all times in 24 hour format	PUSHER	SIDE (P/S)	COKE	SIDE (C/S)	CORRECTIVE ACTIONS & CAUSE OF LEAK
OVEN	TIME LEAK NOTICED	DOOR	Leak Out Time	DOOR	Leak Out Time	WHAT WAS DONE TO CORRECT THE DOOR LEAK? WHAT WAS THE POTENTIAL CAUSE OF THE DOOR LEAK?
B44	12:45 PM	(Y	6:35 PM	V /N		Sole flues plugged & uptake blocked stuck / adjusted door dampers
		N // A		N // A		
		Y // N		N // X		
		N // A		N // A		
		Y // N		N // N		
		N // A		N // A		
		Y // N		N // N		
		N // A		N // A		
		N // A		N // N		
		N // A		N // A		
		Y // N		N // X		
		N // A		N // A		
		Y // N		A II N		
		N // A		N // A		
		Y // N		N // X		
		N // A		N // A		
		Y // N		N // N		
		Y // N		N // A		
		Y // N		A II N		
		Y // N		N // A		
		Y // N		N // N		
	No coke oven leaks were observed today (check this box if no coke oven leaks were observed)	re observed to	day (check tl	nis box if no	coke oven leal	(s were observed)

For every coke oven leak, record the oven #, the time the door leak was noticed; and the time it was corrected. List the corrective actions that were taken and indicate if adverse wind conditions existed in the "Comments" section.

If you are the person who notices the door leak and calls the CCR operator, YOU are responsible for ensuring that the door leak is recorded. Coke oven door leaks can be recorded on push reports or product tech coke oven leak record reports. NOTE - Coke oven leaks are visible emissions that occur from the crown or a door's top, sides, dampers, or holes. Product Technician IHCC COKE OVEN LEAK RECORDS must be submitted to the Shift Supervisor at the end of the DAY Revised 06/22/2018

48 January 2019

ATTACHMENT I – IHCC COKE OVEN CHECKLIST AND COKE OVEN LEAK RECORD SHEET

	Battery Ovens - IHCC COR	KE OVEN CHECKLIST INSPECTION RECO	ORD
DATE:Supervisor Signature	SHIFT:	Your signature indicates that all doors and crowns were inspected on	☆ SunCoke Energy
 Inspect door leaks on the coke Inspect for leaks on the shed 	from the road	fy they can open to a minimum of 8" and able to c	,
	Hea Only	Blue or Black lok	

			PUSHER SIDE	COKE SIDE	COKE SIDE	Uptake Fu	nctionality?	COMMENTS
OVEN	Time of Inspection (AM or FM)	INITIALS	Inspect from Pad	Inside Shed	Outside Shed (from road)	prod	utes prior to uction Coke	Are there any uptakes not moving property? Are all the thermocouples working? Are the door scating property?
E1	11:23 PM	JEB	x	х	x	Push Vir N	Y (N)	Coke side damper stuck at 6. Thermocouple on Pri
1						Y#N	Y#N	out
2						Y#N	YIIN	
3						Y // N	Y // N	
4						Y#M	Y//N	
\$						AWA	A 11 M	
7						YIIN	YIIN	
8			_			YHN	Y#N	
9						YHN	YHN	
10						YIIN	Y // N	
11						YIIN	YHN	
12						Y#N	Y // N	
13			_			YHN	Y II N	
15			_			Y#N	YUN	
16						Y//N	V // N	
17						YHN	YHN	
18						Y#M	Y//N	
19						Y#N	Y // N	
20						YIIN	Y // N	
21						Y#N	Y // N	
23			_			YIIN	YIIN	
24						Y#N	Y#N	
25						Y#M	Y // N	
26						YIIN	YIIN	
27						YIIN	Y#N	
28						YHN	YIIN	
29						Y#M	Y // N	
30						YIIN	YIIN	
31						YIIN	YIIN	
32						Y#N	Y#N	
34			_			YIIN	YIIN	
35						YHN	YHN	
36						YIIN	Y // N	
37						Y#N	Y // N	
38						YHN	Y // N	
39						Y#N	YHN	
40						Y#N	YHN	
41						Y // N	Y // N	
42			_			YIIN	YIIN	
43			_			Y#N	Y#N	
45						YHN	YHN	
46						Y#M	YUN	
47						Y#N	YIIN	
48						Y#N	Y#N	
49						YIIN	YHN	
50						YIIN	YHN	
51			_			Y#N	Y // N	
52						YIIN	YIIN	
53						YIIN	YUN	
55						Y#N	Y#N	
56						Y#M	Y // N	
57						Y#N	YIIN	
58						YIIN	YIIN	
59						YIIN	Y#N	
60						YIIN	Y##	
61						Y#N	Y // N	
62						Y#M	Y//N	
63						Y // N	Y // N	
64						YIIN	YIIN	
66						Y#N	Y#N	

Product Technician to initial in the box provided if there were no Door/Crown Leaks observed during your shift
There were no Door/Crown Leaks observed during my shift

SUBMIT TO THE ENVIRONMENTAL DEPARTMENT AT THE END OF SHIFT

ALL OVENS THAT ARE OUT OF SERVICE SHOULD BE MARK AS "OOS" OR "EMPTY" OR "MAINTENANCE HOLD" ENSURE THAT UPTAKES ARE CLOSED FOR ALL OUT OF SERVICE OVENS

Revised 99/22/2018

ATTACHMENT I (CONTINUED) - IHCC COKE OVEN CHECKLIST AND COKE **OVEN LEAK RECORD SHEET**

		Battery Ovens - IHCC COKE OVEN LEAK RECORD	
DATE:	SHIFT:Supervisor Signature	Your signature indicates that all door and crown leaks observed on on the battery were recorded during your shift and all Method 9 readings were collected as required.	☆ SunCoke Energy
			-

- 1. For every Door / Crown Leak, you must record the oven #, the times the leak was noticed and corrected, the potential cause & the corre 2. If a Crown Leak lasts more than 30 minutes, you must take a Method 9 Reading immediately (Refer to Method 9 sheet for instructions).

 3. All Team Leaders must initial for each Door/Crown Leak recorded and sign in the designated area.

Use Only Blue or Black Ink

	TIME FIRE		PUSHER SIDE	COKE SIDE	CRO	OWN			Reading	Method 9	Reasons for not conducting	Potential Cause & Corrective Actions
OVEN#	NOTICED (AM or PM)	INITIALS	Leak End Time Target: <15 minutes	Leak End Time Target: <45 minutes	1	ime Target: inutes Coke Side	Wind Related?	Open?	Required? (Crown Leak > 30 min)	Reading Conducted?	Method 9 (i.e. Sun Compliance)	What is the cause of the leak? What was done to correct the leak?
E50	11:54 AM	JEB	12:05 PM	-	12:45 PM		Y /(N)	⊘ # N	⊘ // N	⊘ // N		Sole flue dampers adjusted, increase draft Crown not properly sealed
							Y // N	Y // N	Y // N	Y // N		
							Y // N	Y // N	Y // N	Y // N		
							Y // N	Y // N	Y // N	Y // N		
							Y // N	Y // N	Y // N	Y // N		
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							Y // N	Y // N	YIN	Y // N		
							Y // N	Y // N	Y // N	Y // N		
							Y // N	Y // N	Y // N	Y // N		
							Y // N	Y // N	Y // N	Y // N		
							Y // N	Y // N	Y//N	Y//N		
							Y // N	Y // N	Y // N	Y // N		
							YIIN	YIIN	Y // N	Y // N		
							Y // N	YIIN	Y // N	Y // N		
							Y // N	Y // N	Y // N	Y // N		
							Y // N	Y // N	Y // N	Y // N		
							Y // N	YIIN	Y // N	Y // N		

	·
Wind Direction:	
	SUBMIT TO THE ENVIRONMENTAL DEPARTMENT AT THE END OF SHIFT

Revised 06/22/2018

50 January 2019

ATTACHMENT J - ENVIRONMENTAL: MANAGEMENT OF CHANGE

Standard A	coins fort				(Meses (I) # gate Mig	der swiften	effer * Sign Out * 7 Help
	¥ Find: ♠ ▼ Select Action	V 🕽 📓 2					
e Stand	ard Action Log						
Advanced Sear	ch 🕶 🗟 Save Query 🕶 🔗 Bookmarks						
andard Actions	ofite A 2 2 0 of-13 of 13 o						Downey 1
andard Action	Description	Tree	Timing	Status	Category	Organization	Ste
		P	Q		م		Q.
115	Determine if the change affects quench water or the quench pond operation.	ENVIRON	PRE START	ACTIVE			
113	Determine if the change affects the water balance at the site.	ENVRON	PRE START	ACTIVE			
108	Provide requirement for new emissions monitoring device (T/C, Ø*, analyzers, etc.)	ENVIRON	PRE START	ACTIVE			
110	Determine if the change introduces a new process vent or modification of an existing one.	ENVIRON	PRE START	ACTIVE			
162	Determine if the change impacts the capacity of wastewater treatment system components.	ENVIRON	PRE START	ACTIVE			
017	Determine if the change comples with existing permit requirements.	ENVRON	PRE START	ACTIVE			
214	Determine if the change affects water quality that is subject to a regulatory standard.	ENVRON	PRE START	ACTIVE			
106	Update environmental records for emissions from existing or new sources of known pollutants (VOC, SO	ENVRON	PRE START	ACTIVE			
111	Determine if the change creates a new process wastewater stream or the ne-routing of an existing one	ENVRON	PRE START	ACTIVE			
118	Determine if the change affects environmental compliance requirements.	ENVRON	PRE START	ACTIVE			
07	Document additional regulated pollutants	ENVIRON	PRE START	ACTIVE			
09	Determine impact to the method of operation or design of an air emission unit.	ENVRON	PRE START	ACTIVE			
16	Determine if the change will produce a solid or liquid waste.	ENVRON	PRE START	ACTIVE			

Indiana Harbor Coke Company, L.P. Preventive Maintenance and Operation Plan

ATTACHMENT K – PMO PLAN DOCUMENT CONTROL FORM

- To be completed every time the PMO Plan is revised
- Provide reference to section(s) that have been revised under "Details of Revision"

Issue	Date	Authorized	Details of Revision

January 2019 52

Attachment D

IHCC Permit and Site-Specific SIP Revision Applications



SunCoke Energy, Inc.

3210 Watling St MC 2-990 East Chicago, IN 46312 219-378-3900 Phone 219-378-4590 Fax

January 4, 2019

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

RE: Indiana Harbor Coke Company Annual Bypass Venting Limits & Compliance Schedule – Minor Permit Modification

To Whom It May Concern:

Indiana Harbor Coke Company, LP (IHCC) owns and operates a metallurgical coke production facility located in East Chicago, Indiana. IHCC currently operates under Title V Operating Permit (TVOP) No. 089-30043-00382, issued December 20, 2011, as modified on March 15, 2016. TVOP No. 089-30043-00382 has an expiration date of December 20, 2016. However, IHCC submitted a timely and complete renewal permit application and thus continues to operate under TVOP No. 089-30043-00382 until the renewal permit is issued. With this letter, IHCC is requesting a minor permit modification to incorporate new annual bypass venting limits and a compliance schedule into the facility's TVOP.

BACKGROUND

A consent decree ("Consent Decree") between the United States, the State of Indiana, SunCoke Energy, Inc., IHCC, and Cokenergy, LLC was entered in the United States District Court for the Northern District of Indiana on October 25, 2018 (Civil Action No. 2:18-cv-00035). Pursuant to Paragraph 27.a. of the Consent Decree, by no later than ninety (90) days after the effective date of the Consent Decree, IHCC shall submit to IDEM an application in accordance with 326 IAC 2-7-12, to incorporate into its Title V operating permit; (1) the annual Bypass Venting limits in Paragraph 14 of the Consent Decree; and (2) a compliance schedule that consists of the terms and conditions set forth in Paragraphs 9 and 10 of the Consent Decree. Therefore, IHCC is requesting a minor permit modification to incorporate the new annual bypass venting limits and a compliance schedule into the TVOP.

The new annual bypass venting limits are provided in Paragraph 14 of the Consent Decree, as follows:

a. From January 1, 2017, through December 31, 2019, a maximum of 12% of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks, as determined on an annual basis.

- b. Beginning January 1, 2020, a maximum of 13% of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks, as determined on an annual basis.
- c. Exception to Paragraph b. Beginning on January 1, 2020, if Cokenergy undertakes HRSG [Heat Recovery Steam Generators] retubing, then in that calendar year a maximum of 14% of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks, as determined on an annual basis, provided the bypass venting percentage resulting from HRSG retubing accounts for at least 3.25% annual bypass venting. Bypass venting resulting from tube leaks, inspections, routine cleaning or maintenance, or unplanned HRSG outages shall not count in calculating the bypass venting percentage resulting from HRSG retubing.

Please note that IHCC submitted a letter to IDEM on December 19, 2018 requesting a site-specific revision to the Indiana State Implementation Plan to incorporate the annual bypass venting limits listed above. The proposed modification to Section D.1.9 of the TVOP is provided in Appendix A. Text that is proposed to be removed from the permit is noted using strikethrough text and new text is noted using underlined text.

The compliance schedule consisting of the terms and conditions provided in Paragraphs 9 and 10 of the Consent Decree should state as follows:

Pursuant to the consent decree ("Consent Decree") between the United States, the State of Indiana, SunCoke Energy, Inc., IHCC, and Cokenergy, LLC entered in the United States District Court for the Northern District of Indiana on October 25, 2018 (Civil Action No. 2:18-cv-00035):

- (a) IHCC completed all oven rebuilds for Batteries A, C, and D by December 31, 2018 in accordance with Paragraph 9 of the Consent Decree.
- (b) IHCC completed five oven rebuilds for Battery B by March 31, 2017 and determined they were successful by March 31, 2018 in accordance with Paragraph 10 of the Consent Decree.
- (c) IHCC notified EPA and IDEM that the Battery B oven rebuilds were successful by April 30, 2018 in accordance with Paragraph 10.a of the Consent Decree.
- (d) EPA approved IHCC's determination that the Battery B oven rebuilds were successful in a letter dated May 29, 2018 in accordance with Paragraph 10.a of the Consent Decree.
- (e) IHCC shall complete all Battery B oven rebuilds or idle any Battery B ovens that will not be rebuilt by November 30, 2019 in accordance with Paragraph 10.a.i of the Consent Decree.

To incorporate the compliance schedule for oven rebuilds described above into the TVOP, Section D.1.23 *Oven Rebuilds Compliance Schedule* [Civil Action No. 2:18-cv-00035] will need to be added. The proposed Section D.1.23 is provided in Appendix A. New text is noted using <u>underlined text</u>.

MINOR PERMIT MODIFICATION (326 IAC 2-7-12)

Pursuant to 326 IAC 2-7-12(b)(1), minor permit modifications may be used only for permit modifications that meet the following criteria.

- > The change does not violate any applicable requirement;
- > The change does not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in a Part 70 permit;

- > The change does not seek to establish or change a Part 70 permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject;
- > The change is not a modification under Title I of the Clean Air Act; and
- > The change is not otherwise required to be processed as a significant modification.

The proposed changes do not violate any applicable requirement or involve significant changes to existing monitoring, reporting, or recordkeeping requirements in a Part 70 permit. Additionally, the proposed changes do not seek to establish or change a Part 70 permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. These changes do not constitute a Title I modification or a significant modification. Therefore, this project qualifies as a minor permit modification. Required state forms are included in Attachment B.

SUMMARY

As described above, IHCC requests a minor permit modification pursuant to 326 IAC 2-7-12 to incorporate new annual bypass venting limits and a compliance schedule into the TVOP.

If you have any questions regarding this application, please feel free to call me at (219) 378-3968 or email me at jlkirby@suncoke.com.

Sincerely,

Justin L. Kirby

Environmental Manager

Attachments

Chief, Environmental Enforcement Section Environment and Natural Resources Division U.S. Department of Justice Box 7611, Ben Franklin Station Washington, DC 20044-7611 Re: DOJ No. 90-5-2-1-08555/1

Compliance Tracker Air Enforcement and Compliance Assurance Branch U.S. Environmental Protection Agency – Region 5 77 West Jackson Blvd. AE-18J Chicago, IL 60604-3590

Phil Perry
Indiana Department of Environmental Management
Chief, Air Compliance and Enforcement Branch
100 North Senate Avenue
MC-61-53, IGCN 1003
Indianapolis, IN 46204-2251

Air Enforcement Division Director
U.S. Environmental Protection Agency
Office of Civil Enforcement
Air Enforcement Division
U.S. Environmental Protection Agency
1200 Pennsylvania Ave, NW Mail Code: 2242A
Washington, DC 20460

Susan Tennenbaum U.S. Environmental Protection Agency - Region 5 C-14J 77 West Jackson Blvd Chicago, IL 60604

Elizabeth A. Zlatos Indiana Department of Environmental Management Office of Legal Counsel 100 North Senate Avenue MC-60-01, IGCN 1307 Indianapolis, IN 46204-2251 East Chicago Public Library 2401 E. Columbus Drive East Chicago, Indiana 46312

East Chicago Public Library 1008 W. Chicago Avenue East Chicago, Indiana 46312

Luke Ford lford@primaryenergy.com

Electronic Copies to: R5airenforcement@epa.gov tennenbaum.susan@epa.gov bzlatos@idem.in.gov

ATTACHMENT A

TVOP Revisions

D.1.9 Sulfur Dioxide Limit [326 IAC 7-4.1-8]

Pursuant to 326 IAC 7-4.1-8:

- (a) IHCC (Indiana Harbor Coke Company L.P.), Source ID # 382, shall comply with the sulfur dioxide emission limits in pounds per ton, pounds per hour and other requirements as follows:
 - IHCC Coal Carbonization charging shall be limited to 0.0069 lb/ton each and 1.57 lb/hr total.
 - (2) IHCC Coal Carbonization pushing shall be limited to 0.0084 lb/ton and 1.96 lb/hr.
 - (3) IHCC Coal Carbonization quenching shall be limited to 0.0053 lb/ton and 1.322 lb/hr total.
 - (4) IHCC Coal Carbonization thaw shed, identified as ES209 shall be limited to 0.0006 lb/1,000 cubic feet natural gas and 0.015 pound per hour.
 - (5) IHCC Vent Stacks (16 total) in combination with Cokenergy LLC's heat recovery coke carbonization was gas stack identified as Stack ID 201 shall be limited to 1,656 lbs/hr total for a 24 hour average.
- (b) The coke ovens shall recycle the gases emitted during the coking process and utilize it as the only fuel source for the ovens during normal operations. The gases shall not be routed directly to the atmosphere unless they first pass through the common tunnel afterburner. A maximum of nineteen percent (19%) of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere on a twenty-four (24) hour basis and fourteen percent (14%) on an annual basis.
- (c) A maximum of twelve percent (12%) of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks on an annual basis from January 1, 2017 through December 31, 2019. A maximum of thirteen percent (13%) of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks on an annual basis beginning on January 1, 2020.
 - (1) Exception to Paragraph D.1.9(c): Beginning on January 1, 2020, if Cokenergy undertakes heat recovery steam generator (HRSG) retubing, then in that calendar year a maximum of 14% of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks, as determined on an annual basis, provided the bypass venting percentage resulting from HRSG retubing accounts for at least 3.25% annual bypass venting. Bypass venting resulting from tube leaks, inspections, routine cleaning or maintenance, or unplanned HRSG outages shall not count in calculating the bypass venting percentage resulting from HRSG retubing.

D.1.23 Oven Rebuilds Compliance Schedule [Civil Action No. 2:18-cy-00035]

Pursuant to the consent decree ("Consent Decree") between the United States, the State of Indiana, SunCoke Energy, Inc., Indiana Harbor Coke Company, and Cokenergy, LLC entered in the United States District Court for the Northern District of Indiana on October 25, 2018 (Civil Action No. 2:18-cv-00035):

(a) IHCC completed all oven rebuilds for Batteries A, C, and D by December 31, 2018 in accordance with Paragraph 9 of the Consent Decree.

- (b) IHCC completed five oven rebuilds for Battery B by March 31, 2017 and determined they were successful by March 31, 2018 in accordance with Paragraph 10 of the Consent Decree.
- (c) IHCC notified EPA and IDEM that the Battery B oven rebuilds were successful by April 30, 2018 in accordance with Paragraph 10.a of the Consent Decree.
- (d) EPA approved IHCC's determination that the Battery B oven rebuilds were successful in a letter dated May 29, 2018 in accordance with Paragraph 10.a of the Consent Decree.
- (e) IHCC shall complete all Battery B oven rebuilds or idle any Battery B ovens that will not be rebuilt by November 30, 2019 in accordance with Paragraph 10.a.i of the Consent Decree.

ATTACHMENT B

Required State Forms

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AIR PERMIT APPLICATION COVER SHEET

State Form 50639 (R4 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

FOR OFFICE USE ONLY

DATE APPLICATION WAS RECEIVED:

PERMIT NUMBER:

NOTES:

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for <u>all</u> air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to IDEM Air Permits Administration using the address in the upper right hand corner of this page.
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

1.	Tax ID Number:	232000190						
			PART A: Pur	pose of <i>A</i>	Application	n		
	ort A identifies the ource" refers to th	• •	•	• •	•	•		n, the term
2.	Source / Company	y Name: Ind	diana Harbor Coke	Company L	.P.		3. Plant ID:	089 – 0382
4.	Billing Address:	32	210 Watling Street, I	MC 2-990				
	City: East Chic	ago		State	IN		ZIP Code: 463	312 –
5.	Permit Level:	☐ Exemption	n 🔲 Registration	☐ SSOA	A _ MS	OP 🗌	FESOP X TV	OP PBR
6.	Application Summ choices selected be	•	all that apply. Multip	ole permit nu	mbers may l	be assig	gned as needed	based on the
	☐ Initial Permit		Renewal of Operatin	g Permit		☐ Asp	halt General Pe	ermit
	☐ Review Reques	t 🗆 F	Revocation of Opera	iting Permit		☐ Alte	ernate Emission	Factor Request
	☐ Interim Approva	al 🗆 F	Relocation of Portab	le Source		☐ Acid	d Deposition (Ph	nase II)
	☐ Site Closure		mission Reduction	Credit Regis	stry			
	☐ Transition (betw	een permit le	vels) From:				То:	
	☐ Administrative A	Amendment:	☐ Company Nar	me Change			☐ Change of R	esponsible Official
			☐ Correction to	Non-Technica	al Information		☐ Notice Only	Change
			Other (specify	v):				
	Modification:	☐ New Emis	sion Unit or Control D	evice 🗌	Modified Emis	ssion Un	it or Control Devic	e
		☐ New Applie	cable Permit Requirer	ment 🗆	Change to Ap	plicabilit	y of a Permit Requ	uirement
		☐ Prevention	of Significant Deterio	oration 🗌	Emission Offs	et	☐ MACT Prece	enstruction Review
		☐ Minor Soul	rce Modification	☐ Significat	nt Source Mod	dification		
		⊠ Minor Perr	mit Modification	☐ Significa	nt Permit Mod	ification		
		Other (spec	cify):					
7.	Is this an application	n for an initial	construction and/or	r operating p	permit for a "	Greenf	ield" Source?	☐ Yes ⊠ No

☐ Yes ⊠ No

Is this an application for construction of a new emissions unit at an Existing Source?

	PART B: Pre-Application Meeting
Pa	t B specifies whether a meeting was held or is being requested to discuss the permit application.
9.	Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?
	⊠ No □ Yes: Date:
10.	Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?
	No ☐ Yes: Proposed Date for Meeting:
	PART C: Confidential Business Information
	t C identifies permit applications that require special care to ensure that confidential business ormation is kept separate from the public file.
set OA	ms of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements but in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, a information regarding submittal of confidential business information. For more information on confidentiality for ain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission a.
11	ls any of the information contained within this application being claimed as Confidential Business Information?
	⊠ No □ Yes
is to	PART D: Certification Of Truth, Accuracy, and Completeness t D is the official certification that the information contained within the air permit application packet ruthful, accurate, and complete. Any air permit application packet that we receive without a signed tification will be deemed incomplete and may result in denial of the permit. a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as ned in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized vidual" as defined in 326 IAC 2-1.1-1(1).
	I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.
Pat	ick Nigl General Manager
	ne (typed) Title
	Jan 4, 2019
Sig	pature Date



OAQ GENERAL SOURCE DATA APPLICATION GSD-01: Basic Source Level Information State Form 50640 (R5 / 1-10)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

NOTES:

- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
 of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
 public inspection.

PART A: So	urce / Company Location Ir	formation
1. Source / Company Name: Indiana Harbor	r Coke Company L.P.	2. Plant ID: 089 - 00382
3. Location Address: 3210 Watling Street, M	IC 2-990	
City: East Chicago	State: IN	ZIP Code : 46312 –
4. County Name: Lake	5. Township	Name: North
6. Geographic Coordinates:	1	
Latitude: 41.68	Longitude	e: -87.42
7. Universal Transferal Mercadum Coordin	ates (if known):	ř.
Zone: 16 Horizo	ontal: 465291	Vertical: 4614579
8. Adjacent States: Is the source located with	nin 50 miles of an adjacent st	ate?
☐ No ☑ Yes – Indicate Adjacent State(s):		(MI) ☐ Ohio (OH) ☐ Kentucky (KY)
9. Attainment Area Designation: Is the source	e located within a non-attainmen	area for any of the criteria air pollutants?
☐ No ☑ Yes — Indicate Nonattainment Pollut	tant(s): CO Pb	NO _x ⊠ O ₃ □ PM □ PM ₁₀ □ PM _{2.5} □ SO ₂
10. Portable / Stationary: Is this a portable or	stationary source?	☐ Portable
	DADT D. Cource Cummary	
	PART B: Source Summary	
11. Company Internet Address (optional):	·	
12. Company Name History: Has this source	operated under any other nar	· /
12. Company Name History: Has this source	operated under any other nar	ne(s)? s in Part I, Company Name History.
12. Company Name History: Has this source	operated under any other nar	s in Part I, Company Name History.
12. Company Name History: Has this source of the No	operated under any other nar egarding past company name se location of the portable sou se Complete Part J, Portable	s in Part I, Company Name History.
12. Company Name History: Has this source of the No	operated under any other nar egarding past company name se location of the portable sou se Complete Part J, Portable Part K, Reques	s in Part I, Company Name History. rce be changing in the near future? Source Location History, and to Change Location of Portable Source.
12. Company Name History: Has this source on the No	operated under any other nar egarding past company name se location of the portable sou se - Complete Part J, Portable Part K, Reques se, registrations, or permits bee	s in Part I, Company Name History. rce be changing in the near future? Source Location History, and to Change Location of Portable Source.
12. Company Name History: Has this source on the No	operated under any other nar egarding past company name e location of the portable sou s – Complete Part J, Portable Part K, Reques s, registrations, or permits bee	s in Part I, Company Name History. rce be changing in the near future? Source Location History, and to Change Location of Portable Source. en issued to this source? Institute of the part M, Existing Approvals.
12. Company Name History: Has this source on the No	operated under any other nar egarding past company name se location of the portable sou s – Complete Part J, Portable Part K, Reques s, registrations, or permits bee d their corresponding emission source have any unpermitted	s in Part I, Company Name History. rce be changing in the near future? Source Location History, and to Change Location of Portable Source. en issued to this source? ns units in Part M, Existing Approvals. emissions units?
12. Company Name History: Has this source of No	operated under any other nare egarding past company name te location of the portable sou is – Complete Part J, Portable Part K, Reques is, registrations, or permits been determined their corresponding emissions source have any unpermitted missions units in Part N, Unpermissions	s in Part I, Company Name History. Tree be changing in the near future? Source Location History, and It to Change Location of Portable Source. In issued to this source? Ins units in Part M, Existing Approvals. The emissions units?
12. Company Name History: Has this source of No	operated under any other nar egarding past company name le location of the portable sou is – Complete Part J, Portable Part K, Reques is, registrations, or permits bee d their corresponding emission source have any unpermitted missions units in Part N, Unpersing to construct or modify any	s in Part I, Company Name History. rce be changing in the near future? Source Location History, and to Change Location of Portable Source. en issued to this source? ns units in Part M, Existing Approvals. emissions units? ermitted Emissions Units. r emissions units?
12. Company Name History: Has this source on No	operated under any other nare egarding past company name are location of the portable sounds — Complete Part J, Portable Part K, Requests, registrations, or permits been at their corresponding emissions of their corresponding emissions units in Part N, Unpermitted the missions units in Part N, Unpermitted to construction in Part O, New of	s in Part I, Company Name History. rce be changing in the near future? Source Location History, and to Change Location of Portable Source. en issued to this source? Instruction of Part M, Existing Approvals. emissions units? ermitted Emissions Units. or Modified Emissions Units.

38. Telephone Number: (

		Ţ.
	ontact Information	
IDEM will send the original, signed permit decise. This person MUST be an employee of the permitte	-	lentified in this section.
18. Name of Source Contact Person: Justin L. Kirby		
19. Title (optional): Environmental Manager		
20. Mailing Address: 3210 Watling Street, MC 2-990		
City: East Chicago	State: IN	ZIP Code : 46312 –
21. Electronic Mail Address (optional): jlkirby@suncoke.com	n	
22. Telephone Number: (219) 378 - 3968	23. Facsimile Number	(optional): () -
PART D: Authorized Individual/I	Responsible Official Info	ormation
IDEM will send a copy of the permit decision to the Individual or Responsible Official is different from t	•	
24. Name of Authorized Individual or Responsible Officia	ıl: Pat Nigl	
25. Title: General Manager	398	
26. Mailing Address: 3210 Watling Street, MC 2-990		
City: East Chicago	State: IN	ZIP Code : 46312 –
27. Telephone Number: (219) 397 - 3902	28. Facsimile Number	(optional): (219) 397 - 4560
29. Request to Change the Authorized Individual or Responsible the person designated as the Authorized Individual IDEM, OAQ? The permit may list the title of the Authorized Individual Ind	ial or Responsible Official	in the official documents issued by
	0	
	er Information	
30. Company Name of Owner: Indiana Harbor Coke Compa	any L.P.	
31. Name of Owner Contact Person: Patrick Nigl		
32. Mailing Address : 3210 Watling Street, MC 2-990		
City: East Chicago	State: IN	ZIP Code : 46312 –
33. Telephone Number : (219) 378 - 3902	34. Facsimile Number	(optional): (219) 397 - 4560
34. Operator: Does the "Owner" company also operate the s	ource to which this applic	ation applies?
No − Proceed to Part F below.	ME AS OWNER" on line 35 and	d proceed to Part G below.
	tor Information	
35. Company Name of Operator: SAME AS OWNER		
36. Name of Operator Contact Person:		
37. Mailing Address:		
City:	State:	ZIP Code: –

39. Facsimile Number (optional): (

PART G: Age	nt Information					
40. Company Name of Agent: Trinity Consultants						
41. Type of Agent:	Attorney	ecify):				
2. Name of Agent Contact Person: D.J. Wheeler						
43. Mailing Address: 110 Polaris Parkway Suite 200						
City: Westerville	State: OH	ZIP Code : 43082 –				
44. Electronic Mail Address (optional): dwheeler@	trinityconsultants.com					
45. Telephone Number: (614) 433 - 0733	46. Facsimile Number	(optional): () –				
47. Request for Follow-up: Does the "Agent" wish to receiv						
during the public notice period (if applicable) and a copy	of the final determination	?				
PART H: Local L	ibrary Information					
48. Date application packet was filed with the local librar		plication submittal				
49. Name of Library: East Chicago Public Library						
50. Name of Librarian (optional):						
51. Mailing Address: 2401 East Columbus Drive						
City: East Chicago	State: IN	ZIP Code : 46312 –				
52. Internet Address (optional):						
53. Electronic Mail Address (optional):						
54. Telephone Number : (219) 397 - 2453	55. Facsimile Number	(optional): () –				
	ne History (if applicable)					
Complete this section only if the source has previously operated above in Section A.	ited under a legal name tr	nat is different from the name listed				
56. Legal Name of Company		57. Dates of Use				
Indiana Harbor Coke Company		1/1/1998 to 5/15/2012				
Indiana Harbor Coke Company L.P.		5/16/2012 to Present				
maina harbar concessingan,		to				
		to				
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		to				
		to				
		to				
		to				
50. Ozamowy Name Change Bagyanti le the govree officie	"·····································	he legal name that will be printed				
58. Company Name Change Request: Is the source official on all official documents issued by IDEM, OAQ?	lly requesting to change to	ne legal name that will be printed				
No Yes - Change Company Name to:						

PART J: Portable Source Location History (if applicable)

Complete this section only if the source is portable and the location has changed since the previous permit was issued. The current location of the source should be listed in Section A.

59. Plant ID	60. Location of the Portable Source	61. Dates at this Location
_	N/A	to
-		to
-		to
-		to
_		to
<u>-</u>		to
51 2		to
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_		to

PART K: Request to Cha	inge Location of Portable	Source (if applicable)
Complete this section to request a change of loca	ation for a portable source.		
62. Current Location:			
Address: N/A			
City:	State:	ZIP Code:	
County Name:			
63. New Location:			
Address: N/A			
City:	State:	ZIP Code:	-
County Name:			

PART L: Source Process Description Complete this section to summarize the main processes at the source.							
64. Process Description	65. Products	66. SIC Code	67. NAICS Code				
Coal Carbonization	Metallurgical Coke	3312	331110				

	PART M: Existing Approvals (if applicable)					
Complete this se	Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.					
68. Permit ID	69. Emissions Unit IDs	70. Expiration Date				
36803	Title V Minor Source Modification					
	the first of the contractions					
36826,	Title V Administrative Amendment					
36027,						
35127,						
35070,						
34803,						
31755		12/20/2016				
34392,						
34278,						
33376	Title V Significant Permit Modification	12/20/2016				
34322	Title V Significant Source Mod. (Minor PSD/EO)	12/20/2016				
34226	Title V Minor Source Modification	12/20/2016				
30043	Title V Renewal	12/20/2016				

	PART N: Unpermitted Emi	ssions Units (if applicable)				
Complete this se	ection only if the source has emission units th	at are not listed in any perm	it issued by IDEM	OAQ.		
73. Actual Dates						
71. Emissions Unit ID	72. Type of Emissions Unit	Began Construction	Completed Construction	Began Operation		
	N/A					

			PART O: New or Modified Emiss	ions Units (if applicable	e)		
Complete this se	ction	only	if the source is proposing to add new e	emission units or modify	existing emission	units.	
	3 □ 78. E			78. Estima	Estimated Dates		
74. Emissions Unit ID	75. NE	76. MOD	77. Type of Emissions Unit	Begin Construction	Complete Construction	Begin Operation	
			N/A				

/ 1-10)



December 19, 2018

Keith Baugues
Assistant Commissioner
Indiana Department of Environmental Management
Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46204-2251

Nancy King
Assistant Commissioner
Indiana Department of Environmental Management
Office of Legal Counsel
100 North Senate Avenue
Indianapolis, IN 46204-2251

RE: Application for Site-Specific Revision to Indiana State Implementation Plan

Dear Mr. Baugues and Ms. King:

Indiana Harbor Coke Company ("IHCC") and Cokenergy, LLC ("Cokenergy") hereby apply for a site-specific revision to the Indiana State Implementation Plan ("SIP") at 326 IAC 7-4.1-7 and 326 IAC 7-4.1-8 pursuant to Paragraph 27.b of the consent decree between the United States, the State of Indiana, IHCC, SunCoke Energy, Inc., and Cokenergy entered in the United States District Court for the Northern District of Indiana (Case No.: 2:18-cv-00035) on October 25, 2018 ("Consent Decree").

The Consent Decree requires that the Indiana SIP be modified to incorporate: (1) the annual bypass venting limits in Paragraph 14 of the Consent Decree; and (2) the requirement to operate and maintain a permanent flow monitor in Paragraph 19 of the Consent Decree (for Cokenergy only). We have attached a markup of the SIP with proposed changes consistent with these requirements and a copy of the Consent Decree.

We appreciate your assistance with this matter. If you have any questions, please contact me at (219) 378-3968 or jlkirby@suncoke.com.

Sincerely,

Justin L. Kirby

Environmental Manager

Attachments

cc:

Chief, Environmental Enforcement Section Environment and Natural Resources Division U.S. Department of Justice Box 7611, Ben Franklin Station Washington, DC 20044-7611 Re: DOJ No. 90-5-2-1-08555/1

Chicago, IL 60604-3590

Compliance Tracker Air Enforcement and Compliance Assurance Branch U.S. Environmental Protection Agency – Region 5 77 West Jackson Blvd. AE-18J

Phil Perry
Indiana Department of Environmental Management
Chief, Air Compliance and Enforcement Branch
100 North Senate Avenue
MC-61-53, IGCN 1003
Indianapolis, IN 46204-2251

Air Enforcement Division Director
U.S. Environmental Protection Agency
Office of Civil Enforcement
Air Enforcement Division
U.S. Environmental Protection Agency
1200 Pennsylvania Ave, NW Mail Code: 2242A
Washington, DC 20460

Susan Tennenbaum U.S. Environmental Protection Agency - Region 5 C-14J 77 West Jackson Blvd Chicago, IL 60640

Elizabeth A. Zlatos Indiana Department of Environmental Management Office of Legal Counsel 100 North Senate Avenue MC-60-01, IGCN 1307 Indianapolis, IN 46204-2251

Electronic Copies to: R5airenforcement@epa.gov tennenbaum.susan@epa.gov bzlatos@idem.in.gov Luke Ford lford@primaryenergy.com



326 IAC 7-4.1-7 Cokenergy Inc. sulfur dioxide emission limitations

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 7. (a) Cokenergy Inc., Source Identification Number 00383, shall comply with the sulfur dioxide emission limit in pounds per hour for the heat recovery coke carbonization waste gas stack, identified as Stack ID 201, combined with the sixteen (16) vents from the Indiana Harbor Coke Company of a twenty-four (24) hour average emission rate of one thousand six hundred fifty-six (1,656) pounds per hour.

(b) Cokenergy shall install, operate, and maintain a permanent flow monitor to continuously measure the flow rate in Stack ID 201.

(c) A maximum of twelve percent (12%) of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks on an annual basis from January 1, 2017 through December 31, 2019. A maximum of thirteen percent (13%) of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks on an annual basis beginning on January 1, 2020. Beginning on January 1, 2020, if Cokenergy undertakes heat recovery steam generator (HRSG) retubing, then in that calendar year a maximum of 14% of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks, as determined on an annual basis, provided the bypass venting percentage resulting from HRSG retubing accounts for at least 3.25% annual bypass venting. Bypass venting resulting from tube leaks, inspections, routine cleaning or maintenance, or unplanned HRSG outages shall not count in calculating the bypass venting percentage resulting from HRSG retubing. (Air Pollution Control Division; 326 IAC 7-4.1-7; filed May 25, 2005, 10:50 a.m.: 28 IR 2957)

326 IAC 7-4.1-8 Indiana Harbor Coke Company sulfur dioxide emission limitations

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 8. (a) Indiana Harbor Coke Company (IHCC), Source Identification Number 00382, shall comply with the sulfur dioxide emission limits in pounds per ton, pounds per hour, and other requirements as follows:

Emissions Unit Description	Emission Limit lbs/ton	Emission Limit lbs/hour
(1) IHCC Coal Carbonization Charging	0.0068 each	1.57 total
(2) IHCC Coal Carbonization Pushing	0.0084	1.96
(3) IHCC Coal Carbonization Quenching	0.0053	1.232 total
(4) IHCC Coal Carbonization Thaw Shed	0.0006 lbs/1,000 cubic feet natural gas	0.015
(5) IHCC Vent Stacks (16 total) in combination with	J	1,656 total for a 24 hour
Cokenergy's heat recovery coke carbonization waste		average

(b) The coke ovens shall recycle the gases emitted during the coking process and utilize it as the only fuel source for the ovens during normal operations. The gases shall not be routed directly to the atmosphere unless they first pass through the common tunnel afterburner. A maximum of nineteen percent (19%) of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere on a twenty-four (24) hour basis and fourteen percent (14%) on an annual basis.

(c) A maximum of twelve percent (12%) of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks on an annual basis from January 1, 2017 through December 31, 2019. A maximum of thirteen percent (13%) of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks on an annual basis beginning on January 1, 2020. Beginning on January 1, 2020, if Cokenergy undertakes heat recovery steam generator (HRSG) retubing, then in that calendar year a maximum of 14% of the coke oven waste gases leaving the common tunnel shall be allowed to be vented to the atmosphere through the bypass vent stacks, as determined on an annual basis, provided the bypass venting percentage resulting from HRSG retubing accounts for at least 3.25% annual bypass venting. Bypass venting resulting from tube leaks, inspections, routine cleaning or maintenance, or unplanned HRSG outages shall not count in calculating the bypass venting percentage resulting from HRSG retubing. (Air Pollution Control Division; 326 IAC 7-4.1-8; filed May 25, 2005, 10:50 a.m.: 28 IR 2957)

Attachment E

Quarterly Deviation and Compliance Monitoring Reports

&

Semi-annual and Annual Compliance Certifications



SunCoke Energy, Inc.

3210 Watling St MC 2-990 East Chicago, IN 46312 219-378-3900 Phone 219-378-4590 Fax

January 24, 2019

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue Indianapolis, IN 46204 – 2251

RE: Operating Permit Certification – Permit No. T089-30034-00382

Attached you will find Indiana Harbor Coke Company's (IHCC's) Part 70 Operating Permit Certification, Quarterly report for coal charged, and Quarterly Deviation and Compliance Monitoring Report for the 4th Quarter of 2018.

Sincerely,

Justin L. Kirby

Environmental Manager

cc:

Clifford Yukawa w/attachments IDEM/Northwest Regional Office 330 W US Highway 30, Suite F Valparaiso, IN 46385

Attachments:

Part 70 Operating Permit Certification
Quarterly Report for Coal Charged
Quarterly Deviation & Compliance Monitoring Report

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Indiana Harbor Coke Company L.P., a contractor of ArcelorMittal

Source Address: 3210 Watling Street, East Chicago, Indiana 46312

Part 70 Permit Renewal No.: T089-30043-00382

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.
Please check what document is being certified:
☐ Annual Compliance Certification Letter
☐ Test Result (specify)
☑ Quarterly Report for 4 th Quarter 2018
□ Notification (specify)
☐ Affidavit (specify)
☐ Other (specify)
X
I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
Signature: Tahuch A Migf
Printed Name: Patrick Nig
Title/Position: General Manager
Phone: (219) 378-3902
Date: January 24, 2019

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY **COMPLIANCE AND ENFORCEMENT SECTION**

Part 70 Quarterly Report

Source Name:

Indiana Harbor Coke Company L.P., a contractor of ArcelorMittal

Source Address:

3210 Watling Street, East Chicago, Indiana 46312

Part 70 Permit Renewal No.:

T089-30043-00382

Source/Facility:

IHCC

Limit:

2,040,000 tons of dry coal charged per twelve (12) consecutive month period with

compliance determined at the end of each month

Quarter: 4th Year: 2018

Month	12 Month Rolling Sum Tons of Coal Charged	1st Quarter Tons	2nd Quarter Tons	3rd Quarter Tons	4th Quarter Tons
January	1,178,385	109,456			
February	1,185,467	97,631			
March	1,191,662	111,145			
April	1,196,535		102,613		
May	1,206,156		105,086		
June	1,217,054		104,908		
July	1,229,422			107,269	
August	1,240,971			108,406	
September	1,258,652			109,861	
October	1,275,229				115,615
November	1,295,668				120,670
December	1,318,389				125,729

☑ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter. Deviation has been reported on:

Submitted by: Patrick Nigl Title / Position: General Manager

Signature:

Date: January 24, 2019 Phone: (219)-378-3902

Attached a signed certification to complete this report

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE and ENFORCEMENT BRANCH

PART 70 OPERATING PERMIT QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name:

Indiana Harbor Coke Company L.P., a contractor of ArcelorMittal

Source Address:

3210 Watling Street, East Chicago, Indiana 46312

Part 70 Permit Renewal No.:

T089-30043-00382

Reporting Period: October 1, 2018 - December 31, 2018

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☑ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Permit Requirement (specify permit condition #): C.5(k)

Date of Deviation: 10/07, 10/14, 10/21, 10/28, 11/04, 11/14, 11/19, 11/25, 12/02, 12/09, 12/16

Duration of Deviation: 22 3-minute averages

Number of Deviations: 22

Probable Cause of Deviation: IHCC's certified Method 9 observer recorded fugitive visible emissions from charging operations exceeding the twenty percent (20%) opacity standard as a three (3) minute average.

Response Steps Taken: In addition to rebuilding coke ovens, IHCC is continuing to implement an on-going oven maintenance and repair program.

Permit Requirement (specify permit condition #): D.1.6(b)(1)

Dates of Deviation: 10/08 Duration of Deviation: 1 3-minute average

Number of Deviations: 1

Probable Cause of Deviation: IHCC's certified Method 9 observer recorded fugitive visible emissions from the shed exceeding the twenty percent (20%) opacity standard as a three (3) minute average.

Response Steps Taken: In addition to rebuilding coke ovens, IHCC is continuing to implement an on-going oven maintenance and repair program as well repairing or replacing damaged shed panels.

Permit Requirement (specify permit condition #): D.1.12(b)

Dates of Deviation: 10/02, 10/08, 10/11, 10/13, 10/14, 10/16, 10/19 - 10/23, 10/26, 10/28, 10/29, 11/03, 11/05, 11/06, 11/08, 11/09, 11/11 - 11/14, 11/16, 11/18, 11/20 - 11/22, 11/24, 11/26 - 12/01, 12/03, 12/07, 12/09, 12/10, 12/12, 12/13, 12/15, 12/16, 12/17, 12/19, 12/20, 12/22 - 12/28, 12/30, 12/31

Duration of Deviation: Please see Table 1 (attached)

Number of Deviations: 92

Probable Cause of Deviation: IHCC personnel recorded that certain oven dampers did not properly function to open when the charging process was initiated. Thus, they were not positioned to maximize draft (i.e. at the minimum position) during charging activities on 93 occasions during the reporting period. The uptake dampers are programmed to open fully once the charging sequence on an oven is initiated; however, in these instances, the dampers malfunctioned and were not able to fully open. For specific dates and oven numbers, please see the oven uptake information in Table 1 attached to this quarterly report. 84 of these deviations occurred on non-rebuilt coke ovens.

Response Steps Taken: Personnel inspect all uptakes prior to pushing ovens to maximize proper operation. IHCC maintenance personnel execute a daily oven damper maintenance and repair program to ensure dampers are functional. Additionally, IHCC is installing a new damper positioning system as ovens are rebuilt to ensure dampers are able to function and be positioned to maximize draft during charging.

Permit Requirement (specify permit condition #): D.1.13, D.1.18

Dates of Deviation: 10/04 – 10/30, 11/01 – Duration of Deviation: Please see Table 2 (attached)

Number of Deviations: 88 days

Probable Cause of Deviation: For a total of 88 days, IHCC was unable to maintain 1200 to 2400 degree Fahrenheit temperature in the common tunnels on A and B Batteries. For A Battery, the low common tunnel temperatures are a result of on-going oven rebuilds. The temperatures are low because a number of ovens are offline as part of the rebuild process and, therefore, the overall heat load to the common tunnel is reduced. For B Battery, the low common tunnel temperatures are a result of multiple ovens out of service. For C Battery, the low common tunnel temperatures are a result of HRSG fouling by Cokenergy.

Response Steps Taken: IHCC has taken several response measures to increase the common tunnel temperatures including installing gas lances in the ovens. IHCC is continuing to implement its on-going oven maintenance and repair program which will increase the common tunnel temperatures.

Permit Requirement (specify permit condition #) E.2.2 (c)

Dates of Deviation: 11/04, 11/06, 11/08, 11/19, 11/22, 11/23, 11/26, 11/28, 11/30, 12/03, 12/05, 12/08 – 12/10, 12/12 – 12/18,

12/22, 12/23 - 12/25, 12/27, 12/28, 12/30, 12/31

Duration of Deviation: Varies

Number of Deviations: 34

Probable Cause of Deviation: On 34 occasions, IHCC personnel observed positive pressure on B, C and/or D Battery common tunnel attributable to inadequate condensation drainage in the differential pressure cell line, weather, fluctuating process conditions involving the ovens, and the heat recovery steam generators (HRSGs).

Response Steps Taken: IHCC operations personnel monitor oven conditions to maintain negative draft within the common tunnel. Cleaning and maintenance has been performed on the common tunnel that is expected to improve the performance of the pressure gauges measuring tunnel draft.

Permit Requirement (specify permit condition #) E.2.2 (c)

Dates of Deviation: 10/01 – 11/30, 12/02 – 12/31

Duration of Deviation: Please see

Table 3 (attached)

Number of Deviations: 854

Probable Cause of Deviation: Door fires that occurred during the reporting period and lasted longer than 15 minutes on the push side or 45 minutes on coke side are the result of aging non-rebuilt coke ovens. Corrective actions were taken, but operators were unable to stop the leaks within the allowed 15 minutes or 45 minutes on certain ovens for the dates mentioned above. 842 of the 854 deviations occurred on aging non-rebuilt coke ovens. 12 deviations occurred on rebuilt ovens; 4 of which are related to on-going maintenance that were resolved as quickly as possible, 7 are related to insufficient/low draft due to HRSG fouling and oven location related to the HRSG, and 1 is related to a coke oven door not being properly seated.

Response Steps Taken: IHCC personnel monitor and perform all necessary mitigation steps to reduce the door leak as much as practicable. In addition to rebuilding coke ovens, IHCC is in the process of completing an on-going oven maintenance and repair program, which includes inspecting and cleaning the common tunnel to maintain sufficient draft.

Signature:

Form Completed By: Justin L. Kirby

Title/Position: Environmental Manager

Phone: (219)-378-3968
Date: January 24, 2019

Attachments:

Table 1: D.1.12(b) - Uptake damper position indicated closed following the charge of the oven:

Incident Date / Time	Description / Asset
10/2/2018	B39
10/8/2018	B(23, 26, 29, 41)
10/11/2018	A42
10/13/2018	B(20, 21)
10/14/2018	B39
10/16/2018	B26
10/19/2018	B46
10/20/2018	B(40, 63)
10/21/2018	B60
10/22/2018	B(19, 21, 24, 46)
10/23/2018	B23
10/26/2018	B46
10/28/2018	B46
10/29/2018	A50
11/3/2018	B(19, 46)
11/5/2018	B46
11/6/2018	B60
11/8/2018	B46
11/9/2018	B35
11/11/2018	A9, B45
11/12/2018	B35
11/13/2018	B45
11/14/2018	B35
11/16/2018	B(35, 41, 45)
11/18/2018	B35
11/20/2018	D57
11/21/2018	B45
11/22/2018	B27
11/24/2018	B(35, 45)
11/26/2018	B(34, 35)
11/27/2018	B40
11/28/2018	B45
11/29/2018	B(34,43)
11/30/2018	B40
12/1/2018	B45
12/3/2018	B40
12/7/2018	B(31,34), C9
12/9/2018	B43
12/10/2018	B(34,40,45)
12/12/2018	D40
12/13/2018	B10
12/15/2018	B(34, 60)
12/16/2018	B43
12/17/2018	B(34,40)
12/19/2018	A64, B45

12/20/2018	B(16, 34, 43)
12/22/2018	B45
12/23/2018	B(34, 40)
12/24/2018	B43
12/25/2018	B(34, 45)
12/26/2018	B(16, 19, 40), D28
12/27/2018	B43
12/28/2018	B(30, 34, 40, 45)
12/30/2018	B(19, 30, 34, 43, 45)
12/31/2018	B40, D26

Table 2: D.1.13, D.1.18 – Common tunnel temperature out of the 1200 to 2400 degree Fahrenheit

Incident Date / Time	Description / Asset
10/4/2018	B Battery
10/5/2018	B Battery
10/6/2018	B Battery
10/7/2018	B Battery
10/8/2018	B Battery
10/9/2018	B Battery
10/10/2018	A, B Battery
10/11/2018	A, B Battery
10/12/2018	A, B Battery
10/13/2018	A, B Battery
10/14/2018	A, B Battery
10/15/2018	A, B Battery
10/16/2018	A, B Battery
10/17/2018	A, B Battery
10/18/2018	A, B Battery
10/19/2018	A, B Battery
10/20/2018	A, B Battery
10/21/2018	A, B Battery
10/22/2018	A, B Battery
10/23/2018	A, B Battery
10/24/2018	B Battery
10/25/2018	B Battery
10/26/2018	B Battery
10/27/2018	B Battery
10/28/2018	B Battery
10/29/2018	B Battery
10/30/2018	B Battery
11/1/2018	B Battery
11/2/2018	B Battery
11/3/2018	B Battery
11/4/2018	B Battery
11/5/2018	B Battery
11/6/2018	B Battery
11/7/2018	B Battery
11/8/2018	B Battery

11/9/2018	B Battery
11/10/2018	B Battery
11/11/2018	B Battery
11/12/2018	B Battery
11/13/2018	B Battery
11/14/2018	B Battery
11/15/2018	B Battery
11/16/2018	B Battery
11/17/2018	B Battery
11/18/2018	B Battery
11/19/2018	B Battery
11/20/2018	B, C Battery
11/21/2018	B, C Battery
11/22/2018	B Battery
11/23/2018	B Battery
11/24/2018	B Battery
11/25/2018	B Battery
11/26/2018	
	B Battery
11/27/2018	B, C Battery
11/28/2018	B, C Battery
11/29/2018	B, C Battery
11/30/2018	B, C Battery
12/1/2018	B, C Battery
12/2/2018	B, C Battery
12/3/2018	B, C Battery
12/4/2018	B Battery
12/5/2018	B, C Battery
12/6/2018	B Battery
12/7/2018	B, C Battery
12/8/2018	B Battery
12/9/2018	B Battery
12/10/2018	B Battery
12/11/2018	B Battery
12/12/2018	B Battery
12/13/2018	B Battery
12/14/2018	B Battery
12/15/2018	B Battery
12/16/2018	B Battery
12/17/2018	B Battery
12/18/2018	B Battery
12/19/2018	B Battery
12/20/2018	B Battery
12/21/2018	B Battery
12/22/2018	B Battery
12/23/2018	B Battery
12/24/2018	B Battery
12/25/2018	B Battery
12/26/2018	B Battery
12/27/2018	B Battery

12/28/2018	B Battery
12/29/2018	B Battery
12/30/2018	B Battery
12/31/2018	B Battery

Table 3: E.2.2(c) – Door Fire (required 15 min PS / 45 min CS)

Date	Battery	Oven#	Time Observed	P/S	C/S	Duration	Cause(s)	Corrective Action(s)
10/1/2018	В	19	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
10/1/2018	В	31	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
10/1/2018	В	36	6:01AM	Х		8 hr	sole flues plugged	adjusted uptakes
10/1/2018	В	39	6:01 AM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
10/1/2018	В	23	10:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes
10/1/2018	В	33	10:00 PM	X	Х	8 hr	sole flues plugged	adjusted uptakes
10/2/2018	В	62	7:33AM	X		8 hr	sole flues plugged	adjusted uptakes
10/2/2018 10/2/2018	В	43	7:33 AM 7:33 AM	X		8 hr 8 hr	sole flues plugged sole flues plugged	adjusted uptakes adjusted uptakes
10/2/2018	В	28	7:34AM	X	-	8 hr	sole flues plugged	adjusted uptakes
10/2/2018	В	25	7:34 AM	X		8 hr	sole flues plugged	adjusted uptakes
10/2/2018	В	20	7:34AM	X		8 hr	sole flues plugged	adjusted uptakes
		1					plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/3/2018	В	65	12:41 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/3/2018	В	60	12:41 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/3/2018	В	58	12:41 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/3/2018	В	45	12:42 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/3/2018	В	42	12:42 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes. door dampers and / or draft contacted CCR, adjusted sole flues,
70/3/5018	, B	42	12.42 PIVI	_ ^		> 13 11/111	and / or low / loss of draft	uptakes, door dampers and / or draf
10/3/2018	В	41	12:42 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/3/2018	В	39	12:42 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/3/2018	В	37	12:43 PM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/3/2018	В	35	12:43 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/3/2018	В	32	12:43 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/3/2018	В	29	12:43 PM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/3/2018	В	27	12:43 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/3/2018	В	22	12:44 PM	х		> 15 min	plugged sole flues, floor drops, and / or low/ loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/3/2018	В	21	12:44 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/3/2018	В	6	12:45 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	В	-	12:36 PM		x	> AE min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/4/2018	В	6	12:36 PIVI			> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/4/2018	В	21	12:39 PM		х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draf
10/4/2018	В	22	12:39 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/4/2018	В	27	12:39 PM		х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/4/2018	В	31	12:39 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/4/2018	В	32	12:39 PM		X	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/4/2018	В	33	12:39 PM		х	> 45 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/4/2018	В	35	12:40 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/4/2018	В	38	12:40 PM		x		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
						> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/4/2018	В	62	12:44 PM		х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
10/4/2018	В	38	1:21 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/4/2018	В	31	1:21 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft D56 was under going repairs,	uptakes, door dampers and / or dra
10/5/2018	D	56	12:00 AM	х	x	4 hr 22 min	no sole flue damper present on C/S	adjusted door holes and uptakes
10 /F /2012		62	12:45 044	1,		. 491-	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
10/5/2018	В	63	12:46 PM	х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or dr

10/5/2018	В	58	12:46 PM	Х		> 15 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/5/2018	В	40	12:47 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/5/2018	В	36	12:47 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/5/2018	В	28	12:48 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
10/5/2018	В	19	12:48 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
							and / or low / loss of draft	uptakes, door dampers and / or dra
10/5/2018	В	63	2:00 PM		X	8 hr	sole flues plugged	adjusted uptakes/door holes
10/6/2018	В	64	7:04 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/6/2018	В	59	7:04AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/6/2018	В	43	7:04AM	х		> 15 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/6/2018	В	42	7:04AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/6/2018	В	39	7:04AM	х		> 15 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/6/2018	В	35	7:04 AM	х	DE F	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
10/6/2018	В	27	7:05 AM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
-5, 5, 2020							and / or low / loss of draft	uptakes, door dampers and / or dra
10/6/2018	В	12	7:05 AM	х		> 15 min	plugged so le flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/6/2018	В	13	2:00 PM	Х		8 hr	sole flues blocked	adjusted uptakes/door holes
10/6/2018	В	42	2:00 PM		Х	8 hr	sole flues blocked	adjusted uptakes/door holes
10/6/2018	В	64	2:01 PM		Х	8 hr	sole flues blocked	adjusted uptakes/door holes
10/7/2018	В	27	7:37 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/7/2018	В	32	7:37 AM	(х	> 45 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/7/2018	В	35	7:37 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/7/2018	В	65	7:40AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/8/2018	В	38	7:16 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/8/2018	В	33	7:17 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
10/8/2018	В	6	7:17 AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
	n .	-	2.00.004				and / or low / loss of draft	uptakes, door dampers and / or dra
10/8/2018	В	6	2:00 PM		Х	8 hr	sole flues blocked plugged sole flues, floor drops,	adjusted uptakes, door holes contacted CCR, adjusted sole flue
10/9/2018	В	65	6:39AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
10/9/2018	В	64	6:39 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/9/2018	В	43	6:40AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/9/2018	В	40	6:40AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/9/2018	В	39	6:40 AM	х	37	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/9/2018	В	31	6:40AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
10/9/2018	В	29	6:40AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
10/9/2018	В	25	6:40AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
	19	į.					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue:
10/9/2018	В	23	6:41AM	X		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/9/2018	В	22	6:41 AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra
10/9/2018	В	21	6:41AM	x		> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/9/2018	В	20	6:41 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/9/2018	В	19	6:41AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/9/2018	В	21	2:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes/door dampers
10/9/2018	В	22	2:00 PM		X	8 hr	sole flues plugged	adjusted uptakes/door dampers

10/9/2018	В	23	2:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes/door dampers
10/9/2018	В	64	2:01 PM		х	8 hr	sole flues plugged	adjusted uptakes/door dampers
10/9/2018	В	65	2:01 PM		Х	8 hr	sole flues plugged	adjusted uptakes/door dampers
10/10/2018	В	60	12:47 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/10/2018	В	42	12:48 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/10/2018	В	37	12:48 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/10/2018	В	32	12:49 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/10/2018	В	12	12:50 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/11/2018	В	63	12:58 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/11/2018	В	58	12:58 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/11/2018	В	40	12:59 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/11/2018	В	35	12:59 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/11/2018	В	26	1:00 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/12/2018	В	24	12:48 PM		х	> 45 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
	В	25	12:48 PM				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/12/2018					X	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/12/2018	В	27	12:48 PM	Щ	Х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or dra
10/12/2018	В	37	12:49 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or drain
10/12/2018	В	38	12:49 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/12/2018	В	63	12:52 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/12/2018	В	16	1:27 PM	х	H	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or drai
10/12/2018	В	23	1:27 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
10/12/2018	В	24	1:27 PM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/12/2018	В	25	1:27 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or drain contacted CCR, adjusted sole flues
10/12/2018	В	27	1:28 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or dra
10/12/2018	В	29	1:28 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/12/2018	В	33	1:28 PM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/12/2018	В	38	1:28 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/12/2018	В	39	1:29 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
10/12/2018	В	41	1:29 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/12/2018	В	59	1:29 PM	х		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/13/2018	В	6	6:00 AM	^ x	X	8 hr	and / or low / loss of draft sole flues blocked	uptakes, door dampers and / or dra adjusted uptakes and door holes
10/13/2018	В	19	6:00 AM	X		B hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	22	6:00 AM	Х		8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	28	6:01AM	Х		8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	31	6:01 AM	Х	Х	8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	39	6:01 AM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	42	6:01AM	Х		8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	43	6:02 AM	Х	х	8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	60	6:02 AM	Х		8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	62	6:02 AM	X		8 hr	sole flues blocked	adjusted uptakes and door holes
10/14/2018	В	12	6:00 AM	X	х	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	20	6:00AM	X	X	8 hr	sole flues plugged	adjusted uptakes
	В	21	6:00 AM	X	~	8 hr	sole flues plugged	
10/14/2019				^	V	8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
10/14/2018	В	22						
10/14/2018 10/14/2018 10/14/2018	В	32 35	6:01AM 6:01 AM		X	8 hr	sole flues plugged	adjusted uptakes

10/14/2018	В	40	6:02 AM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	44	6:02AM		X	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	64	6:02 AM	Х	х	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	22	8:30AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/15/2018	В	21	12:17 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/15/2018	В	27	12:17 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/15/2018	В	37	12:18 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
The Co							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/15/2018	В	41	12:22 PM		X	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/15/2018	В	59	12:23 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
10/15/2018	В	63	12:23 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/15/2018	В	25	1:13 PM	х	4	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/15/2018	В	33	1:13 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/15/2018	В	35	1:14 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/15/2018	В	36	1:14 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
	N					> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/15/2018	В	37	1:14 PM	X			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/15/2018	В	39	1:14 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/15/2018	В	59	1:15 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or dra
10/15/2018	В	63	1:15 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/15/2018	В	65	1:15 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue: uptakes, door dampers and / or dra
10/16/2018	В	43	12:24 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/16/2018	В	42	12:24 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
10/16/2018	В	35	12:25 PM	х		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
	В	32	12:25 PM	х		> 15 min	and / nr lnw / lnss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue:
10/16/2018	L TO						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/16/2018	В	29	12:25 PM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
10/16/2018	В	28	12:25 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
10/16/2018	В	27	12:25 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/16/2018	В	24	12:26 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/16/2018	В	23	12:26 PM	х	-	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/16/2018	В	19	12:26 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
							and / or low / loss of draft	uptakes, door dampers and / or dra
10/16/2018	В	60	12:28 PM 2:05 PM	X		> 15 min	follow up repairs for sole flue plugged sole flues, floor drops,	adjusted uptakes and door holes contacted CCR, adjusted sole flue
			2:05 PM			> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
10/17/2018	В	58		X			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
10/17/2018	В	41	2:05 PM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
10/17/2018	В	40	2:05 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or dra
10/17/2018	В	38	2:06 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/17/2018	В	22	2:06 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/17/2018	В	20	2:06 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/17/2018	В	12	2:06 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
							and / or low / loss of draft	uptakes, door dampers and / or dra

							plugged sole flues, floor drops,	contracted CCB adjusted calculations
10/17/2018	В	6	2:07 PM	Х		> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/18/2018	В	64	11:50AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/18/2018	В	62	11:50 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/18/2018	В	39	11:51AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/18/2018	В	36	11:51 AM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
						a to the same of	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/18/2018	В	31	11:52 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/18/2018	В	27	11:52 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/18/2018	В	21	11:53 AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/18/2018	В	25	2:31 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/18/2018	В	6	10:00 PM		x	8 hr	sole flues blocked	adjusted draft
10/19/2018	В	19	10:00 PM		X	8 hr	sole flues blocked	adjusted draft
10/19/2018	В	21	10:00 PM		X	8 hr	sole flues blocked	adjusted draft
10/19/2018	В	35	10:01 PM	Χ		8 hr	sole flues blocked	adjusted draft
10/19/2018	В	47	10:01 PM	Х		8 hr	sole flues blocked	adjusted draft
10/19/2018	В	59	10:01 PM	Х	Х	8 hr	sole flues blocked	adjusted draft
10/20/2018	В	63	7:33AM	Х		8 hr	sole flues plugged	adjusted uptakes
10/20/2018	В	32	7:34AM	Х		8 hr	sole flues plugged	adjusted uptakes
10/20/2018	В	19	7:34AM	Х		8 hr	sole flues plugged	adjusted uptakes
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/20/2018	В	28	12:33 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/20/2018	В	29	12:33 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/20/2018	В	40	12:35 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/21/2018	В	33	4:51AM	X		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/21/2018	В	25	5:14AM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/21/2018	В	39	7:13 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/21/2018	В	38	7:13 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/21/2018	В	37	7:13 AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/21/2018	В	35	7:13 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/21/2018	В	27	7:14AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/21/2018	В	24	7:14 AM	×		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10,11,1010			7.247401	^			and / or low / loss of draft	uptakes, door dampers and / or draft
10/21/2018	В	22	8:15 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/21/2018	В	25	8:15 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/21/2018	В	28	8:15 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/21/2018	В	38	8:16 AM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/21/2018	В	63	8:19 AM		X	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/22/2018	В	31	6:58 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/22/2018	В	22	6:58AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/22/2018	В	21	6:58 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/22/2018	В	6	6:58AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/23/2018	В	65	6:54 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/23/2018	В	64	6:54 AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
		-	- 11				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
	В	60	6:54AM	х	1 1	> 15 min	I bingRen sois lines, Linni at obs,	contacted cen, adjusted sole 1005,

10/23/2018	В	58	6:54AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/23/2018	В	40	6:54AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/23/2010	_	40					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/23/2018	В	36	6:54AM	Х	May 1	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/23/2018	В	28	6:55 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/23/2018	В	20	6:55 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/23/2018	В .	20	0.33 AIVI	^		> 13 111111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/23/2018	В	19	6:55 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/24/2018	В	32	2: 0 1 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/24/2010	В	22	2,02,014	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/24/2018	В	22	2:02 PM	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/25/2018	В	12	12:21 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/25/2018	В	63	12:26 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/25/2010	_	12	1:04 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/25/2018	В	12	1:04 PW	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/25/2018	В	63	1:05 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/26/2018	В	6	12:11 PM	х	450	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/26/2018	В	20	12:11 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/26/2018	В	21	12:11 PM	х	1	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/20/2010	В	31	12:12 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/26/2018	В	21	12.12 FIVI	^		> 13	and / or low / loss of draft	uptakes, door dampers and / or draf
10/26/2018	В	32	12:12 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/26/2018	В	38	12:12 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/27/2018	В	6	7:00AM		X	8 hr	and / or low / loss of draft sole flues blocked	uptakes, door dampers and / or draf adjusted door holes and uptakes
10/27/2018	В	19	7:00AM	Х	^ i	8 hr	sole flues blocked	adjusted door holes and uptakes
10/27/2018	В	21	7:00 AM		х	8 hr	sole flues blocked	adjusted door holes and uptakes
10/27/2018	В	25	7:00 AM	Х		8 hr	sole flues blocked	adjusted door holes and uptakes
10/27/2018	В	31	7:01AM		Х	8 hr	sale flues blacked	adjusted door holes and uptakes
10/27/2018	В	33	7:01 AM	Х	х	8 hr	sole flues blocked	adjusted door holes and uptakes
10/27/2018	В	36	7:01 AM	Х		8 hr	sole flues blocked	adjusted door holes and uptakes
10/27/2018	В	37	7:01 AM	Х		8 hr	sole flues blocked	adjusted door holes and uptakes
10/27/2018	В	38	7:01 AM		Х	8 hr	sole flues blocked	adjusted door holes and uptakes
10/27/2018	В	58	7:02 AM	Х		8 hr	sole flues blocked	adjusted door holes and uptakes
10/27/2018	В	59	7:02 AM	Х		8 hr	sole flues blocked	adjusted door holes and uptakes
10/27/2018	В	64	7:02 AM		X	8 hr	sole flues blocked	adjusted door holes and uptakes
10/29/2018	В	40	7:05 AM	х	4 6	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues
10/29/2018	В	27	7:05 AM	Х		8 hr	sole flues blocked	uptakes, door dampers and / or dra adjusted uptakes, door holes
	В	28	7:05 AM	^	х	8 hr	sole flues blocked	adjusted uptakes, door holes
10/29/2018	В	33	7:05 AM	Х	^	8 hr	sole flues blocked	adjusted uptakes, door holes
10/29/2018	В	40		^	x I	8 hr	sole flues blocked	adjusted uptakes, door holes
10/30/2018	В	65	7:06 AM 7:33 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
10/30/2018		03	7.33 AIVI	^		> 13 111111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra
10/30/2018	В	63	7:33 AM	X		> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/30/2018	В	32	7:34 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
10/20/2010	Р	21	7,24 444	v		15	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/30/2018	В	31	7:34 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
10/30/2018	В	19	7:34 AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/31/2018	В	38	12:28 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
		20	12,20,014	V		\ 15:-	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/31/2018	В	36	12:28 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
10/31/2018	В	22	12:29 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/31/2018								
10/31/2018	В	21	12:29 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues

10/31/2018	В	16	12:29 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/31/2018	В	12	12:29 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/31/2018	В	6	12:30 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/24/2010	_	_	42.20.014	-	у Т	8 hr	and / or low / loss of draft	uptakes, door dampers and / or draft adjusted uptakes, door holes
10/31/2018	В	6	12:30 PM		X	8 hr	sole flues blocked	adjusted uptakes, door noies
		19	12:31 PM		X I	8 hr		adjusted uptakes, door holes
10/31/2018	В	22	12:31 PM		x l	8 hr	sole flues blocked	adjusted uptakes, door holes
10/31/2018	В	31	12:32 PM		X	8 hr	sole flues blocked	adjusted uptakes, door holes
10/31/2018		63	12:32 PM		^	0 111		contacted CCR, adjusted sole flues,
11/1/2018	В	27	12:48 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft
11/1/2018	В	33	12:48 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/1/2018	В	35	12:49 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/1/2018	В	36	12:49 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/1/2018	В	37	12:49 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/1/2018	В	38	12:49 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/1/2018	В	62	12:52 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
, -, -010		J.				. 73	and / or low / loss of draft	uptakes, door dampers and / or draft
11/1/2018	В	65	12:52 PM	Ϊ'n	х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/1/2018	В	37	1:19 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/1/2018	В	62	1:20 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/2/2018	В	64	12:23 PM	х		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/2/2018	В	59	12:23 PM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/2/2018	В	40	12:24 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
11/2/2018	В	33	12:24 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/2/2018	В	32	12:24 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/2/2018	В	28	12:25 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/2/2018	В	27	12:25 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/2/2018	В	30	5:14 PM	х		1 hr 22 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11 /2 /2010	В	10	6:00 4 4	х		8 hr	and / or low / loss of draft sole flues plugged	uptakes, door dampers and / or draft
11/3/2018	В	19	6:00 AM	X	- V			adjusted uptakes
	В	25	6:00 AM		X	8 hr	sole flues plugged	adjusted uptakes
11/3/2018	В	31	6:01AM	X	X	8 hr	sole flues plugged	adjusted uptakes
11/3/2018	В	35 64	6:01 AM	^	Х	8 hr	sole flues plugged	adjusted uptakes
11/4/2018	В	19	6:01 AM 6:00 AM		X	8 hr	sole flues plugged	adjusted uptakes adjusted updates
11/4/2018	В	20	6:00 AM		X	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	22	6:00 AM		X	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	23	6:00 AM	-	X	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	24	6:00 AM		X	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	27	6:01 AM		X	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	28	6:01AM		X	8 hr	sole flues plugged	adjusted updates
	В	32	6:01 AM		X	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	34			X	8 hr	sole flues plugged	
	В	35	6:02 AM		X			adjusted updates adjusted updates
11/4/2018			6:02 AM		-	8 hr 8 hr	sole flues plugged	
11/4/2018	В	36	6:02 AM		X		sole flues plugged	adjusted updates
11/4/2018	В	40	6:02 AM		X	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	41	6:02 AM		X	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	48	6:03 AM		X	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	63	6:03 AM	Х		8 hr	sole flues plugged	adjusted updates
11/4/2018	В	38	6:03 AM 12:19 PM	X		8 hr > 15 min	sole flues plugged plugged sole flues, floor drops,	adjusted updates contacted CCR, adjusted sole flues,
	- 17						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/5/2018	В	36	12:19 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft

11/5/2018	В	32	12:19 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/5/2018	В	21	12:19 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/5/2018	В	20	12:19 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/5/2018	В	6	12:20 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
11/6/2018	В	12	12:53 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
						Fig. 17.7	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/6/2018	В	16	12:56 PM		Х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/6/2018	В	21	12:56 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/6/2018	В	28	12:59 PM	1/4	X	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/6/2018	В	33	12:59 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/6/2018	В	38	12:59 PM		х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
11/6/2018	В	62	1:03 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
				v			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/6/2018	В	25	1:36 PM	X		> 15 m(n	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra
11/6/2018	В	28	1:36 PM	Х		> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/6/2018	В	29	1:36 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/6/2018	В	30	1:36 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/6/2018	В	33	1:36 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
11/6/2018	В	34	1:37 PM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue:
						4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue:
11/6/2018	В	35	1:37 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/6/2018	В	39	1:37 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/6/2018	В	41	1:37 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/6/2018	В	48	1:37 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
11/6/2018	В	58	1:38 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
11/6/2018	В	59	1:38 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
						7 6 6 5 5 1	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/6/2018	В	60	1:38 PM	Х	19 10-1	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/6/2018	В	62	1:38 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/7/2018	В	43	1:24 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/7/2018	В	42	1:24 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/7/2018	В	40	1:24 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
11/7/2018	В	31	1:25 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue:
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/7/2018	В	27	1:25 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/7/2018	В	22	1:25 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/7/2018	В	16	1:25 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/7/2018	В	6	2:00 PM		X	8 hr	sole flues plugged	adjusted updates
11/7/2018	В	31	2:00 PM		X	8 hr	sole flues plugged	adjusted updates
11/7/2018	В	41	2:00 PM		X	8 hr	sole flues plugged	adjusted updates
11/7/2018	В	63	2:02 PM			8 hr	sole flues plugged	adjusted updates
11/7/2018	В	63	2:02 PM	V	X	8 hr	sole flues plugged	adjusted updates
11/8/2018	В	36	6:35AM	Х		8 hr	sole flues plugged	adjusted door holes, updates
100		37		Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues

11/8/2018	В	35	6:36AM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/8/2018	В	32	6:37 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/8/2018	В	19	6:38AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/9/2018	В	12	12:00 PM	х	x	8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	19	12:00 PM	^	X	8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	20	12:00 PM	Х	^	8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	21	12:00 PM	X	х	8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	23	12:01 PM	X	X	8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	24	12:01 PM	X	^	8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	25	12:01 PM	X		8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	28	12:01 PM	X		8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	33	12:02 PM	X		8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	39	12:02 PM	X		8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	65	12:03 PM	X		8 hr	sole flues plugged	adjusted uptakes and door holes
11/10/2018	В	27	6:00AM	X		8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	38	6:01AM	X	х	8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	40	6:01AM	X		8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	42	6:01AM	X		8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	43	6:01AM	X	Х	8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	45	6:01 AM	X		8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	46	6:02AM	X		8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	48	6:02 AM	X		8 hr	sole flues blocked	adjusted uptakes, door holes
						- Viii-	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/10/2018	В	35	6:32AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
11/10/2018	В	34	6:32AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/10/2018	В	6	10:02 AM	Х	X	8 hr	sole flues blocked	adjusted uptakes, door holes
11/11/2018	В	64	7:00 AM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
			-1.19				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/11/2018	В	63	7:00 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or dra
11/11/2018	В	45	7:00AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/11/2018	В	39	7:00 AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/11/2018	В	64	7:00 AM		x	8 hr	sole flues blocked	adjusted uptakes and door holes
11/11/2018	В	32	7:01AM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/11/2018	В	31	7:01 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or drai
11/11/2018	В	22	7:01AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or dra
11/11/2018	В	20	7:01 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/11/2018	В	32	7:01AM	7	x	8 hr	sole flues blocked	adjusted uptakes and door holes
11/11/2018	В	31	7:01 AM		x	8 hr	sole flues blocked	adjusted uptakes and door holes
11/11/2018	В	27	7:01 AM		X	8 hr	sole flues blocked	adjusted uptakes and door holes
11/11/2018		21	7.01 AIVI		^	0111	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
11/12/2018	В	37	7:25 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/12/2018	В	35	7:25 AM	х	3 1 1	> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/12/2018	В	33	7:26 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/12/2018	В	19	7:26AM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/13/2018	В	64	6:10 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/13/2018	В	48	6:10AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
	_						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/13/2018	В	42	6:10AM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/13/2018	В	41	6:10AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/13/2018	В	40	6:10 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/13/2018	В	36	6:10AM	х	, 16 h	> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
							and / or low / loss of draft	uptakes, door dampers and / or dra
11/13/2018	В	25	6:11 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues

11/13/2018	В	21	6:11 AM	X		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,			0.227				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and or draft contacted CCR, adjusted sole flues,
11/14/2018	В	39	12:53 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/14/2018	В	35	12:53 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/14/2018	В	28	12:53 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/14/2018	В	22	12:54 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					V		and / or low / loss of draft	uptakes, door dampers and / or draft
1/14/2018 1/14/2018	В	64	2:00 PM 2:00 PM		X	8 hr 8 hr	sole flues plugged sole flues plugged	adjusted uptakes adjusted uptakes
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/15/2018	В	6	12:41 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/15/2018	В	20	12:41 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/15/2018	В	31	12:42 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/15/2018	В	32	12:42 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/15/2018	В	33	12:42 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/15/2010		20	12.42.004		v	AFi-	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/15/2018	В	38	12:43 PM	//-	X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/15/2018	В	58	12:46 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/15/2010	,	62	12:46 004		v	45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/15/2018	В	63	12:46 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/15/2018	В	6	1:12 PM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
1/15/2018	В	20	1:13 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/15/2018	В	31	1:13 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						> 15 mm	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/15/2018	В	32	1:13 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/15/2018	В	38	1:14 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/15/2018	В	58	1:15 PM	X	4	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/15/2018	В	59	1:15 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/15/2018	В	60	1:15 PM	х	-	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/15/2018	В	62	1:15 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
				-			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/15/2018	В	65	1:15 PM	X	100	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
1/16/2018 1/16/2018	В	16 21	7:00AM 7:00AM	Х	Х	8 hr	sole flues plugged sole flues plugged	adjusted door holes/uptakes adjusted door holes/uptakes
1/16/2018	В	23	7:00AM	Х		8 hr	sole flues plugged	adjusted door holes/uptakes
1/16/2018	В	28	7:00AM	Х		8 hr	sole flues plugged	adjusted door holes/uptakes
1/16/2018	В	29	7:01 AM	Х		8 hr	sole flues plugged	adjusted door holes/uptakes
1/16/2018	В	33	7:01AM	Х		8 hr	sole flues plugged	adjusted door holes/uptakes
1/16/2018	В	35	7:01 AM	Х		8 hr	sole flues plugged	adjusted door holes/uptakes
1/16/2018	В	36	7:02AM	X		8 hr	sole flues plugged	adjusted door holes/uptakes
1/16/2018	В	40	7:02 AM	X	Х	8 hr	sole flues plugged	adjusted door holes/uptakes
1/16/2018 1/16/2018	В	45 59	7:02 AM	Х	V	8 hr 8 hr	sole flues plugged	adjusted door holes/uptakes
1/16/2018	В	27	7:03AM 7:10AM	х	X	> 15 min	plugged sole flues, floor drops,	adjusted door holes/uptakes contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft	uptakes, door dampers and / or draf
1/16/2018	В	7	7:13 AM	X		3 hrs 2 min	follow up repairs for sole flue	Increased draft and adjusted sole flu
1/17/2018	В	63	6:52AM	X		8 hr	sole flues plugged	adjusted uptakes
1/17/2018	В	37 33	6:53AM 6:53AM	X		8 hr 8 hr	sole flues plugged sole flues plugged	adjusted uptakes
1/17/2018 1/17/2018	В	21	6:53AM	X		8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
1/17/2018	В	16	6:54 AM	X		8 hr	sole flues plugged	adjusted uptakes
1/17/2018	В	65	7:28 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
1/17/2018	В	62	7:28 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/17/2018	С	21 36	2:00 PM 4:00AM	Х	Х	8 hr 16 mln	sole flues plugged low draft	adjusted uptakes Adjusted sole flues and crowns

11/18/2018	В	19	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	20	6:00 AM	X		8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	22	6:00AM	Х	X	8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	25	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	31	6:01 AM	Х	X	8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	32	6:01 AM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	35	6:01 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	38	6:01 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	39	6:02 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	С	35	4:48 AM	Х		26 mln	low draft	Adjusted sole flues and crowns
11/19/2018	В	12	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	33	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	34	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	36	6:01 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	39	6:01 AM		X	8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	40	6:01 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	58	6:03 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	60	6:03 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/20/2018	С	16	3:42 AM	Х		19 min	low draft	Adjusted crowns and sole flues.
11/20/2018	В	65	12:37 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,		03	22.37 110	_^		- 23 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
11/20/2018	В	62	12:37 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
, , , , ,							and / or low / loss of draft	uptakes, door dampers and / or draft
11/20/2018	В	39	12:38 PM	x		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		7.00					and / or low / loss of draft	uptakes, door dampers and / or draft
11/20/2018	В	35	12:38 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
11/20/2018	В	29	12:39 PM	Х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
11/20/2018	В	28	12:39 PM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
11/21/2018	В	6	12:52 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
11/21/2018	В	28	12:54 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft	uptakes, door dampers and / or draft
11/21/2018	В	32	12:54 PM		X	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
11/21/2018	В	33	12:54 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	-						and / or low / loss of draft	uptakes, door dampers and / or draft
11/21/2018	В	41	12:55 PM		X	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/21/2018	В	44	12:55 PM		x	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/21/2018	В	59	1:14 PM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/21/2018	В	32	1:14 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/21/2018	В	21	1:15 PM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
					1		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/21/2018	В	19	1:15 PM	X	1 1	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/21/2018	В	6	1:16 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/21/2018	С	33	11:00 PM	х	1	30 min	low draft	Adjusted crowns and sole flues.
11/22/2018	В	31	6:00 AM	X	X	8 hr	sole flues plugged	adjusted uptakes
11/22/2018	В	37	6:00 AM	X	1 1	8 hr	sole flues plugged	adjusted uptakes
11/22/2018	В	38	6:00 AM	X		8 hr	sole flues plugged	adjusted uptakes
11/22/2018	В	64	6:00 AM	X	X	8 hr	sole flues plugged	adjusted uptakes
11/23/2018	В	28	6:00 AM	X	1 ^	8 hr	sole flues plugged	adjusted uptakes
11/23/2018	В	29	6:00 AM	X		8 hr	sole flues plugged	adjusted uptakes
11/23/2018	В	36	6:00 AM	X	1	8 hr	sole flues plugged	adjusted uptakes
11/23/2018	В	39	6:00 AM	X	X	8 hr	sole flues plugged	adjusted uptakes
11/23/2018	В	40	6:00 AM	X	X	8 hr	sole flues plugged	adjusted uptakes
11/23/2018	В	63	6:00 AM	X	1 1	8 hr	sole flues plugged	adjusted uptakes
11/24/2018	В	20	6:00 AM	X		8 hr	sole flues plugged	adjusted uptakes
11/24/2018	В	35	6:00 AM	X	1	8 hr	sole flues plugged	adjusted uptakes
11/24/2018	В	62	6:00 AM	X		8 hr	sole flues plugged	adjusted uptakes
		UZ	O.OO AIVI	1		3111	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/25/2018	В	65	6:51 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
,,	_						plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				1 1/	1	> 15 mln	Proper soir fines, floor drops,	contacted cen, adjusted sole flues,
11/25/2018	В	60	6:51 AM	Х		> 13 mm	and / or low / loss of draft	untakes door damners and / or deaft
	В	60	6:51 AM	X		> 13 111111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,

11/25/2018	В	40	6:51AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11 /25 /2010	P	65	C.E1 ANA		X	8 hr	sole flues plugged	
11/25/2018	В	40	6:51 AM		X	8 hr	1.00	adjusted uptakes
11/25/2018	В	40	6:51 AM		×	8 nr	sole flues plugged	adjusted uptakes
11/25/2018	В	32	6:52AM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/25/2018	В	31	6:52AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/25/2018	В	22	6:52 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
	- 111			у.			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/25/2018	В	21	6:52AM	Х	v	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/25/2018	В	32	6:52 AM		X	8 hr	sole flues plugged	adjusted uptakes
11/25/2018	В	31	6:52AM		Х	8 hr	sole flues plugged	adjusted uptakes
11/25/2018	В	28	6:52 AM		Х	8 hr	sole flues plugged	adjusted uptakes
1/25/2018	В	22	6:52AM		Х	8 hr	sole flues plugged	adjusted uptakes
1/25/2018	В	20	6:52 AM		Х	8 hr	sole flues plugged	adjusted uptakes
11/26/2018	В	45	7:35AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
	,	42	7-25 ANA	x		> 1E min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/26/2018	В	43	7:35 AM	^		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/26/2018	В	42	7:35AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/26/2018	В	39	7:35 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
11/26/2018	В	38	7:35 AM	Х		> 15min	and / or low / loss of draft	uptakes, door dampers and / or dra
	_						plugged sole flues, floor drops.	contacted CCR, adjusted sole flues
11/26/2018	В	36	7:35 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11 /26 /2010	В	35	7:35AM	x	6152	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
11/26/2018	В	33	7:35AIM	^	2	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/26/2018	В	33	7:36AM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/27/2018	В	48	6:49 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue:
11/27/2018	В	37	6:49 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/27/2018	В	28	6:50 AM	х	-1	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/27/2018	В	6	6:50AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/28/2018	В	64	1:03 PM	×	514	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/28/2018	В	63	1:03 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/28/2018	В	62	1:03 PM	x	1.10	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/28/2018	В	60	1:03 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
			4 00 004			. 45	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue:
11/28/2018	В	58	1:03 PM	Х		> 15min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/28/2018	В	41	1:04 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/28/2018	В	40	1:04 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/28/2018	В	35	1:04 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/28/2018	В	33	1:04 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
11/28/2018	В	23	1:05 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/28/2018	В	22	1:05 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
11/28/2018	В	20	1:05 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues
11/28/2018	В	16	1:05 PM	х		> 15 min	plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/28/2018	В	6	2:00 PM	^	x	8 hr	and / or low / loss of draft sole flues plugged	uptakes, door dampers and / or dra adjusted uptake and door holes
11/28/2018	В	21	2:00 PM		x	8 hr		
							sole flues plugged	adjusted uptake and door holes
11/28/2018	В	22	2:00 PM		X	8 hr	sole flues plugged	adjusted uptake and door holes
4 4 190 /004 6	8	38	2:01 PM		Х	8 hr	sole flues plugged	adjusted uptake and door holes
11/28/2018	В	41	2:02 PM	- 1	Х	8 hr	sole flues plugged	adjusted uptake and door holes

1/28/2018	В	64	2:03 PM		Х	8 hr	sole flues plugged	adjusted uptake and door holes
1/29/2018	В	12	12:48 PM		х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
, = 0, = 0							and / or low / loss of draft	uptakes, door dampers and / or draft
/29/2018	В	16	12:48 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/29/2018	В	25	12:51 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
/29/2018	В	27	12:51 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1,13,1010			12.31110		^	/ 13 	and / or low / loss of draft	uptakes, door dampers and / or draft
1/29/2018	В	31	12:51 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/29/2018	В	32	12:51 PM		X .	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/29/2018	В	42	12:54 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/29/2018	В	44	12:54 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/23/2018	В		12.34 FIVI			2 43 IIIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
/29/2018	В	21	1:43 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
, ,							and / or low / loss of draft	uptakes, door dampers and / or draft
/29/2018	В	25	1:43 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
/29/2018	В	27	1:43 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
100 15 5	-		4 42 21			4	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
/29/2018	В	31	1:43 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
/20/2018	В	32	1:43 PM	v		> 1E mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
/29/2018	В	32	1.43 PIVI	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draf
/29/2018	В	39	1:44 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
/30/2018	В	16	6:00 AM	X		8 hr	sole flue blocked	adjust uptakes, door holes
/30/2018	В	19	6:00 AM	Х	x	8 hr	sole flue blocked	adjust uptakes, door holes
/30/2018	В	35	6:01 AM	Х	^	8 hr	sole flue blocked	adjust uptakes, door holes adjust uptakes, door holes
/30/2018	В	38	6:01AM	X		8 hr	sole flue blocked	adjust uptakes, door holes
/30/2018	В	63	6:02 AM		х	8 hr	sole flue blocked	adjust uptakes, door holes
	_	1		.,			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
/30/2018	В	16	8:02 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
/30/2018	D	3	8:22 AM	Х		1 hr 53 min	low draft	adjusted sole flue and increased draf
2/2/2018	В	65	7:25 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
, , , , ,							and / or low / loss of draft	uptakes, door dampers and / or draf
2/2/2018	В	58	7:25 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/2/2018	В	40	7:25 AM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
	_						plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/2/2018	В	37	7:25 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
2/2/2018	В	32	7:26 AM	V		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/2/2016	В	32	7.20 AIVI	Х	- N	> 12 111111	and / or low / loss of draft	uptakes, door dampers and / or draf
2/2/2018	В	31	7:26 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
, , , , ,							and / or low / loss of draft	uptakes, door dampers and / or draf
2/2/2018	В	20	7:26 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low/ loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf
2/2/2018	В	6	7:26 AM	х		> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/2/2018	В	6	7:53 AM		х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draf
2/2/2010	P	21	7.54 444		V	> AF:-	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/2/2018	В	31	7:54 AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draf
2/2/2018	В	32	7:54 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
, -, -020							and / or low / loss of draft	uptakes, door dampers and / or draf
2/2/2018	В	58	7:57 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					_		and / or low / loss of draft	uptakes, door dampers and / or draf
2/3/2018	В	64	12:17 PM	X		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/3/2018	В	63	12:17 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
2/2/2010	_	-	12.17.014	.,			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/3/2018	В	62	12:17 PM	Х	Jan H	> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draf
2/3/2018	В	25	12-19 DAA	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-/3/2018	В	35	12:18 PM	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/3/2018	В	25	12:19 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf

12/3/2018	В	23	12:19 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,0,	- U						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/3/2018	В	22	12:19 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/3/2018	В	21	12:19 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/4/2018	В	20	12:40 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/4/2018	В	21	12:40 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	В	22	12:40 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/4/2018	В	22					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/4/2018	В	27	12:40 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/4/2018	В	38	12:41 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/4/2018	В	41	12:44 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/4/2018	В	59	12:45 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/4/2018	В	63	12:45 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						EL PRINT	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/4/2018	В	64	12:45 PM		X	> 45 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/4/2018	В	59	1:20 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/4/2018	В	48	1:21 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/4/2018	В	40	1:21 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/4/2018	В	38	1:21 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		J CAL					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/4/2018	В	30	1:22 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/4/2018	В	28	1:22 PM	X		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/4/2018	В	20	1:22 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/4/2018	В	19	1:22 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/4/2018	В	23	2:01 PM		X	8 hr	sole flues plugged	adjusted uptakes
12/5/2018	В	58	12:30 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/5/2018	В	33	12:31 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/6/2018	В	27	8:07 AM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/6/2018	В	25	8:07 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/6/2018	В	58	2:00 PM		X	8 hr	sole flues plugged	adjust uptakes and door
2/7/2018	В	6	2:00 PM	X	X	8 hr	sole flues plugged	adjusted uptakes
2/7/2018	В	32	2:00 PM	X		8 hr	sole flues plugged	adjusted uptakes
2/7/2018	В	40	2:00 PM	Х		8 hr	sole flues plugged	adjusted uptakes
2/7/2018	В	64	2:37 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/8/2018	В	64	7:03AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/8/2018	В	63	7:03 AM	X		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/8/2018	В	60	7:03 AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/8/2018	В	59	7:03 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/8/2018	В	39	7:04AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/8/2018	В	38	7:04AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/8/2018	В	36	7:04 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/8/2018	В		7:05AM	х			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
14/0/4U10	В	34	7.USAIVI	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
	В						plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,

12/8/2018	В	31	2:00 PM	f i	х	8 hr	sole flues blocked	adjusted uptakes
12/8/2018	В	38	2:02 PM		X	8 hr	sole flues blocked	adjusted uptakes
12/8/2018	В	59	2:02 PM		х	8 hr	sole flues blocked	adjusted uptakes
12/8/2018	В	64	2:03 PM		х	8 hr	sole flues blocked	adjusted uptakes
12/9/2018	С	53	4:27 AM		Х	50 mln	low draft	adjusted sole flues and dampers
12/9/2018	В	65	6:55AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,-,			0.557.1141				and / or low / loss of draft	uptakes, door dampers and / or draft
12/9/2018	В	58	6:55 AM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/9/2018	В	35	6:55 AM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
22/5/2010		33	0.55 AIVI	^		7 13 11111	and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/9/2018	В	23	6:56AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft
12/9/2018	В	22	6:56 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		=					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/9/2018	В	21	6:56AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/9/2018	В	20	6:56 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/9/2018	В	19	6:56AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12,5,2020			0.30/101	^		7 23	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/9/2018	В	12	6:57 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/9/2018	В	28	7:01AM	Х	X	8 hr	sole flues blocked	adjusted uptakes and door holes
2/9/2018	В	30	7:01 AM	Х	Х	8 hr	sole flues blocked	adjusted uptakes and door holes
2/9/2018	В	34	7:02 AM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
2/9/2018	В	35	7:02 AM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
2/9/2018	В	12	7:25AM		x	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/3/2020			7.23AW		"	, 43 mm	and / or low / loss of draft	uptakes, door dampers and / or draft
12/9/2018	В	20	7:26 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/9/2018	В	22	7:26AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/3/2010			7.20AIVI		^	2 43 mm	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/9/2018	В	23	7:26AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/9/2018	В	32	7:26AM		x	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/10/2010	_	40	12.47.004	v		. 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/10/2018	В	40	12:47 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/10/2018	В	27	12:47 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/11/2018	В	27	12:45 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/11/2018	В	32	12:45 PM		Х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
2/11/2018	В	36	12:46 PM		x	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/11/2018	В	62	1:20 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2,11,1010			2.201101			. 23	and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/11/2018	В	36	1:21 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft
2/11/2018	В	35	1:21 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/11/2018	В	33	1:21 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/11/2018	В	32	1:21 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/11/2018	В	25	1:22 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2,11,2010		23	1.22110	^		7 23 11111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/12/2018	В	44	12:48 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/12/2018	В	41	12:48 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				,			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/12/2018	В	39	12:48 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/12/2018	В	38	12:48 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/12/2018	В	31	12:49 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
/ 12/ 2018	В	31	14.43 FIVI	^		> 12 IIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
12/12/2018	В	28	12:49 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/12/2010	В	24	12:40 DN4	v		> 1E min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/12/2018	В	24	12:49 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft

12/13/2018	В	37	6:00AM	Х		8 hr	sole flues plugged	adjusted uptakes
12/13/2018	В	60	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
12/13/2018	В	64	6:01 AM	Х		8 hr	sole flues plugged	adjusted uptakes
12/13/2018	В	6	7:12 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
			2				and / or low / loss of draft	uptakes, door dampers and / or draft
12/14/2018	В	40	12:02 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/14/2018	В	29	12:02 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/14/2018	В	22	12:03 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		No.	3 3				and / or low / loss of draft	uptakes, door dampers and / or draft
12/14/2018	В	21	12:03 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/14/2018	В	16	12:03 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/14/2018	В	6	2:00 PM		X	8 hr	sole flues plugged	adjusted uptakes
12/14/2018	В	31	2:01 PM		X	8 hr	sole flues plugged	adjusted uptakes
12/14/2018	В	60	2:02 PM		X	8 hr	sole flues plugged	adjusted uptakes
12/15/2018	В	63	7:18 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
			- 5				and / or low / loss of draft	uptakes, door dampers and / or draft
12/15/2018	В	62	7:18 AM	X	S. U.S.	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/15/2018	В	25	7:19 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
40.445.40040		24	240 444	v		46.00	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/15/2018	В	24	7:19 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/15/2018	D	41	7:27 AM	х		3 hr 33 min	door not properly sealed due to	adjusted sole flues and dampers
							lintel damage	
12/15/2018	D	3	7:27 AM	X		3 hr 33 mln	low draft	adjusted sole flues and dampers
12/16/2018	В	43	7:28 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
12/16/2018	В	38	7:28 AM	X	T X	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/16/2018	В	64	7:28 AM		X	8 hr	sole flues plugged	adjusted uptakes
	109.0		2				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/16/2018	В	32	7:29 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/16/2018	В	31	7:29 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				^			and / or low / loss of draft	uptakes, door dampers and / or draft
12/16/2018	В	31	7:29 AM		X	8 hr	sole flues plugged	adjusted uptakes
12/16/2018	В	22	7:29 AM		X	8 hr	sole flues plugged	adjusted uptakes
12/16/2018	В	28	7:56 AM		X	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/16/2018	В	41	7:59 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/15/2018	,		7.50 444		V	AF min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/16/2018	В	44	7:59 AM	1.4	х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/17/2018	В	60	7:09AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
12/17/2018	В	59	7:09AM	X	44	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/17/2018	В	47	7:09 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
					EUG T		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/17/2018	В	45	7:09 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/17/2018	В	40	7:09AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
, -, -010		40	, .UJAIVI	^		× 13 mm	and / or low / loss of draft	uptakes, door dampers and / or draft
12/17/2018	В	35	7:09 AM	х	TAIT	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draf	uptakes, door dampers and / or draf
12/17/2018	В	33	7:10 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
			5 7 9 3				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/17/2018	В	12	7:10 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/10/2015	P	20	7.14 444	V		v 15	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/18/2018	В	39	7:14 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
	В	24	7:15 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
17/18/2019	J	-"	, TO LIAI	^		- 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
12/18/2018			7:15 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/18/2018	В	22	I 1.TO WINI I	^			and / or low / loss of draft	uptakes, door dampers and / or draft
	В	22	7:15 AM	^				
	В	22	7:15 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/18/2018						> 15 min		

							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/18/2018	В	19	7:15AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	6	12:26 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
40 40 4004			40.00.004			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/19/2018	В	22	12:28 PM		X	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	27	12:28 PM		×	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/10/2010		22	12-20 004		l u	45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/19/2018	В	32	12:29 PM		Х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	41	12:32 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/10/2018	В	62	12:33 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/19/2018	В	02	12.33 FIVI		^	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	64	12:33 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/19/2018	В	65	1;07 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/15/1010		- 03	1.071101	^		2 2 3 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	64	1:07 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/19/2018	В	62	1:07 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/19/2018	В	36	1:08 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	32	1:08 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/19/2018	В	25	1:09 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	6	1:10 PM	X	100	> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/20/2018	В	40	1:17 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/20/2018	В	38	1:17 PM	х	11/0	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/20/2010		27	1.17 004	v		. 15 -in	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/20/2018	В	37	1:17 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/20/2018	В	35	1:17 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/20/2018	В	33	1:17 PM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
40.400.4004							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/20/2018	В	28	1:18 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/21/2018	В	63	1:20 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/21/2018	В	58	1:20 PM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/21/2016	ь	36	1.20 FIVI	^		> 12	and / or low / loss of draft	uptakes, door dampers and / or draft
12/21/2018	В	39	1:21 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/21/2018	В	34	1:21 PM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/11/1010		34	1.21 (10)	^		× 13 mm	and / or low / loss of draft	uptakes, door dampers and / or draft
12/21/2018	В	31	1:22 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/23/2018	В	59	8:28 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/23/2018	В	42	8:28 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/23/2018	В	41	8:28 AM	х	1	> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/23/2018	В	40	8:28 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/23/2018	В	36	8:28AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/23/2018	В	35	8:28 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/23/2010			8.2844	V			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/23/2018	В	34	8:28AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/23/2018	В	32	8:29AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/23/2018	В	27	8:29 AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/23/2018	В	25	8:29 AM	Х		> 15 min	piugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
72/ 23/ 2019	J	25	U.ZJ MIVI	^		> 13 IIIII	and / or low / loss of draft	uptakes, door dampers and / or draft

							1	
12/23/2018	В	24	8:29AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged soleflues, floor drops,	contacted CCR, adjusted sole flues,
12/23/2018	В	23	8:29 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/23/2018	В	22	8:29 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/23/2010			0.23 AN	^		7 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
12/23/2018	В	21	8:29 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				Victoria -			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/23/2018	В	19	8:29 AM	X	7	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
40 /02 /0040	_	46		.,		. 45 . 1	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/23/2018	В	16	8:29 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/23/2018	В	27	8:43AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11,15,1010		-					and / or low / loss of draft	uptakes, door dampers and / or draft
12/23/2018	В	31	8:43AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/23/2018	В	32	8:43 AM	3.0	Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
40 /02 /0040	_		0.42.44		,	45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/23/2018	В	33	8:43 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/23/2018	В	36	8:43 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,		1					and / or low / loss of draft	uptakes, door dampers and / or draft
12/23/2018	В	40	8:46AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
				To g			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/23/2018	В	63	8:47 AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/24/2018	В	21	6:00 AM		х	8 hr	sole flues plugged	adjusted uptakes
12/24/2018	В	23	6:00AM		Х	8 hr	sole flues plugged	adjusted uptakes
12/24/2018	В	28	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
12/24/2018	В	29	6:01AM	X		8 hr	sole flues plugged	adjusted uptakes
12/24/2018	В	39 65	6:01 AM	X	X	8 hr 8 hr	sole flues plugged sole flues plugged	adjusted uptakes adjusted uptakes
12/24/2018	В	43	6:02 AM	X	X	8 hr	sole flues plugged	adjusted uptakes
12/24/2018	В	62	6:02 AM	X		8 hr	sole flues plugged	adjusted uptakes
12/24/2018	В	64	6:02 AM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
12/25/2018	В	28	6:00 AM		Х	8 hr	sole flues blocked	adjusted uptakes, door holes
12/25/2018	В	38	6:00AM	Х	Х	8 hr	sole flues blocked	adjusted uptakes, door holes
12/25/2018	В	59	6:00AM		X	8 hr	sole flues blocked	adjusted uptakes, door holes
12/26/2018	В	6	12:45 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/26/2018	В	20	12:46 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/26/2018	В	22	12:46 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/20/2018			12.40 1101			7 43 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
12/26/2018	В	26	12:46 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft
12/26/2018	В	31	12:49 PM		x	> 45 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
	93.01						plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/26/2018	В	32	12:49 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/26/2018	В	33	12:49 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/20/2018		33	12.451101			7 43 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
12/26/2018	В	34	12:49 PM		х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/26/2018	В	35	12:50 PM		x	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
40 /02 /02		27	1250511		,	45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/26/2018	В	37	12:50 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/26/2018	В	40	12:50 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		-10	12.50 1141			- 13 IIIII	and / or low/ loss of draft	uptakes, door dampers and / or draft
12/26/2018	В	44	12:53 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/26/2018	В	63	12:54 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
	-		1,30 014	,,		15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
19/95/0000	В	58	1:38 PM	Х	S- 3	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/26/2018			1:39 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	В	40	1 T.33 FIVE				and / or low / loss of draft	
12/26/2018	В	40	1.35 FIVI	^				uptakes, door dampers and / or draft
	В	40 37	1:39 PM	×	000	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/26/2018	1.500 11							

12/26/2018	В	31	1:39 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/26/2018	В	20	1:40 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues.
12/26/2018	В	19	1:40 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/26/2018	В	6	1:41 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/27/2018	В	63	1:48 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/27/2018	В	60	1:48 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/27/2018	В	43	1:49 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/2//2018	В	43				> 13 111111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/27/2018	В	39	1:49 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/27/2018	В	36	1:49 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/27/2018	В	35	1:50 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/27/2018	В	28	1:50 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/27/2018	В	21	1:51PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/27/2018	В	27	1:51 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/27/2018	В	25	1:51 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues,
12/27/2018	В	23	1:51 PM			> 15 mln	plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/27/2018	В	22	1:51 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/28/2018	В	42	1:14 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/28/2018	В	38	1:14 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/28/2018	В	35	1:14 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/28/2018	В	34	1:14 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/28/2018	В	27	1:15 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/28/2018	В	21	2:00 PM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/28/2018	В	43	2:02 PM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/29/2018	В	62	7:23 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/29/2018	В	58	7:23 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/29/2018	В	33	7:23 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/29/2018	В	32	7:24 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/30/2018	В	16	6:00AM	Х		8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	19	6:00 AM	X		8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	20	6:00AM	X		8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	22	6:00AM	X	X	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	23	6:01AM	X	X	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	28	6:01AM	Х	X	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	29	6:01AM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	31	6:01 AM	Х		8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	33	6:02 AM		X	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	36	6:02 AM	Х	Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	40	6:02 AM	X		8 hr	sole flues blocked	adjusted uptakes and door holes
	В	64	6:02AM	Х	X	8 hr	sole flues blocked plugged sole flues, floor drops,	adjusted uptakes and door holes contacted CCR, adjusted sole flues,
12/30/2018	В	31	8:26AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/30/2018	В	32	8:26AM	70	х	> 45 mln	and / or low / loss of draft	The second secon
12/30/2018		32 6 29	8:26AM 6:00 AM 6:00 AM	X	X	> 45 mln 8 hr 8 hr		uptakes, door dampers and / or draft adjusted uptakes adjusted uptakes





SunCoke Energy, Inc.

3210 Watling St MC 2-990 East Chicago, IN 46312 219-378-3900 Phone 219-378-4590 Fax

April 29, 2019

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue Indianapolis, IN 46204 – 2251

RE: Operating Permit Certification – Permit No. T089-30034-00382

Attached you will find Indiana Harbor Coke Company's (IHCC's) Part 70 Operating Permit Certification, Quarterly report for coal charged, and Quarterly Deviation and Compliance Monitoring Report for the 1st Quarter of 2019.

Sincerely,

Justin L. Kirby

Environmental Manager

cc:

Clifford Yukawa w/attachments IDEM/Northwest Regional Office 330 W US Highway 30, Suite F Valparaiso, IN 46385

Attachments:

Part 70 Operating Permit Certification Quarterly Report for Coal Charged Quarterly Deviation & Compliance Monitoring Report

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT CERTIFICATION

Source Name:

Indiana Harbor Coke Company L.P., a contractor of ArcelorMittal

Source Address:

3210 Watling Street, East Chicago, Indiana 46312

Part 70 Permit Renewal No.:

T089-30043-00382

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.
Please check what document is being certified:
☐ Annual Compliance Certification Letter
☐ Test Result (specify)
☑ Quarterly Report for 1st Quarter 2019
□ Notification (specify)
☐ Affidavit (specify)
☐ Other (specify)
I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
Signature: Tahus Mig
Printed Name: Patrick Nigl
Title/Position: General Manager
Phone: (219) 378-3902
Date: April 29, 2019

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE AND ENFORCEMENT SECTION

Part 70 Quarterly Report

Source Name:

Indiana Harbor Coke Company L.P., a contractor of ArcelorMittal

Source Address:

3210 Watling Street, East Chicago, Indiana 46312

Part 70 Permit Renewal No.:

T089-30043-00382

Source/Facility:

IHCC

Limit:

2,040,000 tons of dry coal charged per twelve (12) consecutive month period with

compliance determined at the end of each month

Quarter: 1st Year: 2019

Month	12 Month Rolling Sum Tons of Coal Charged	1st Quarter Tons	2nd Quarter Tons	3rd Quarter Tons	4th Quarter Tons
January	1,330,357	121,424			
February	1,341,953	109,227			
March	1,351,139	120,331			
April					
May					
June					
July					
August					
September				×	
October				1	
November					
December					

_					
M		IDVIDE ION	occurred in	n thic	allarter
\sim	INO U	ic via liui i	OCCUITED II	1 111113	uuai ici.

Deviation/s occurred in this quarter.Deviation has been reported on:

Submitted by: Patrick Nigl
Title / Position: General Manager

Signature:

Date: April 29, 2019 Phone: (219)-378-3902

Attached a signed certification to complete this report

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE and ENFORCEMENT BRANCH

PART 70 OPERATING PERMIT QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name:

Indiana Harbor Coke Company L.P., a contractor of ArcelorMittal

Source Address:

3210 Watling Street, East Chicago, Indiana 46312

Part 70 Permit Renewal No.:

T089-30043-00382

Reporting Period: January 1, 2019 - March 31, 2019

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☑ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #): C.5(k)

Date of Deviation: 01/07, 01/13, 01/21, 01/27,

02/11, 02/17

Duration of Deviation: 6 3-minute averages

Number of Deviations: 6

Probable Cause of Deviation: IHCC's certified Method 9 observer recorded fugitive visible emissions from charging operations exceeding the twenty percent (20%) opacity standard as a three (3) minute average.

Response Steps Taken: In addition to rebuilding coke ovens, IHCC is continuing to implement an on-going oven maintenance and repair program.

Permit Requirement (specify permit condition #): D.1.12(b)

Dates of Deviation: 01/04, 01/06, 01/07, 01/10, 01/17, 01/20, 01/23 - 01/28, 01/30, 02/01, 02/02, 02/04, 02/06, 02/08 - 02/10, 02/13, 02/14, 02/16, 02/18, 02/20 - 02/22, 02/24 - 03/02, 03/04, 03/05, 03/07, 03/09, 03/12, 03/16 - 03/17, 03/19, 03/21, 03/24

Duration of Deviation: Please see Table 1 (attached)

Number of Deviations: 68

Probable Cause of Deviation: IHCC personnel recorded that certain oven dampers did not properly function to open when the charging process was initiated. Thus, they were not positioned to maximize draft (i.e. at the minimum position) during charging activities on 68 occasions during the reporting period. The uptake dampers are programmed to open fully once the charging sequence on an oven is initiated; however, in these instances, the dampers malfunctioned and were not able to fully open. For specific dates and oven numbers, please see the oven uptake information in Table 1 attached to this quarterly report. 62 of these deviations occurred on non-rebuilt coke ovens.

Response Steps Taken: Personnel inspect all uptakes prior to pushing ovens to maximize proper operation. IHCC maintenance personnel execute a daily oven damper maintenance and repair program to ensure dampers are functional. Additionally, IHCC is installing a new damper positioning system as ovens are rebuilt to ensure dampers are able to function and be positioned to maximize draft during charging.

Permit Requirement (specify permit condition #): D.1.13, D.1.18

Dates of Deviation: 01/01 – 01/14, 01/16 – 03/31

Duration of Deviation: Please see Table 2 (attached)

Number of Deviations: 89 days

Probable Cause of Deviation: For a total of 89 days, IHCC was unable to maintain 1200 to 2400 degree Fahrenheit temperature in the common tunnels on A, B, C, and D Batteries. For A Battery, the two (2) low common tunnel temperature readings are a result of abnormally cold temperatures during the winter. For B Battery, the 89 low common tunnel temperature readings are a result of multiple ovens out of service as part of the rebuild process and, therefore, the overall heat load to the common tunnel is reduced. For C and D Batteries, the twenty-one (21) low common tunnel temperature readings are a result of fouling within Cokenergy's HRSGs leading to low draft, which is expected to be remedied as HRSGs are cleaned this spring.

Response Steps Taken: IHCC has taken several response measures to increase the common tunnel temperatures including installing gas lances in the ovens. IHCC is continuing to implement its on-going oven maintenance and repair program which will increase the common tunnel temperatures.

Permit Requirement (specify permit condition #) E.2.2 (c)

Dates of Deviation: 01/01, 01/02, 01/05 – 01/08, 01/10 – 01/12, 01/14 – 01/17, 01/21, 01/22, 01/24 – 01/31, 02/02 – 02/26, 02/28

-03/11, 03/13, 03/15 - 03/21, 03/23 - 03/27, 03/31

Duration of Deviation: Varies

Number of Deviations: 95

Probable Cause of Deviation: On 95 occasions, IHCC personnel observed positive pressure on B, C and/or D Battery common tunnel attributable to weather and fouling in Cokenergy's heat recovery steam generators (HRSGs) which leads to low draft.

Response Steps Taken: IHCC operations personnel monitor oven conditions to maintain negative draft within the common tunnel. An on-going program of inspecting, cleaning, and repairing the common tunnel is expected to improve negative draft as measured.

Permit Requirement (specify permit condition #) E.2.2 (c)

Dates of Deviation: 01/01 – 01/18, 01/20 – 01/30, 02/01 – 02/19, 02/21, 02/22, 02/24 – 03/03, 03/05 – 03/31

Duration of Deviation: Please see

Table 3 (attached)

Number of Deviations: 510

Probable Cause of Deviation: Door fires that occurred during the reporting period and lasted longer than 15 minutes on the push side or 45 minutes on coke side are the result of aging non-rebuilt coke ovens. Corrective actions were taken, but operators were unable to stop the leaks within the allowed 15 minutes or 45 minutes on certain ovens for the dates mentioned above. 503 of the 510 deviations occurred on aging non-rebuilt coke ovens. 7 deviations occurred on rebuilt ovens, all of which are related to insufficient/low draft due to HRSG fouling.

Response Steps Taken: IHCC personnel monitor and perform all necessary mitigation steps to reduce the door leaks as much as practicable. In addition to rebuilding coke ovens, IHCC is in the process of completing an on-going oven maintenance and repair program, which includes inspecting and cleaning the common tunnel to maintain sufficient draft.

Signature:

Form Completed By: Justin L. Kirby

Title/Position: Environmental Manager

Phone: (219)-378-3968 Date: April 29, 2019

Attachments:

Table 1: D.1.12(b) - Uptake damper position indicated closed following the charge of the oven:

Incident Date / Time	Description / Asset
1/4/2019	B45
1/6/2019	B19
1/7/2019	B43
1/10/2019	B(19, 45)
1/17/2019	B(34, 40)
1/20/2019	B(43, 45)
1/23/2019	B19
1/24/2019	B40
1/25/2019	B(43, 45)
1/26/2019	B45, C50
1/27/2019	D51
1/28/2019	B40
1/30/2019	B(19, 43, 45)
2/1/2019	B28
2/2/2019	B(3, 45)
2/4/2019	D34
2/6/2019	B43
2/8/2019	B(19, 45)
2/9/2019	B(34, 45), D11
2/10/2019	B(34, 40)
2/13/2019	B(34, 43)
2/14/2019	B45
2/16/2019	B(19, 34)
2/18/2019	B(34, 40)
2/20/2019	B(28, 31)
2/21/2019	B45
2/22/2019	B(27, 40, 43)
2/24/2019	B28
2/25/2019	B34
2/26/2019	B(19, 40)
2/27/2019	B34
2/28/2019	B(28, 40, 45)
3/1/2019	B(19, 34)
3/2/2019	B34
3/4/2019	B34
3/5/2019	B19
3/7/2019	C26
3/9/2019	B41
3/12/2019	B19
3/16/2019	B19
3/17/2019	B45
3/19/2019	B19
3/21/2019	B43
3/24/2019	B(19, 45)

Table 2: D.1.13, D.1.18 – Common tunnel temperature out of the 1200 to 2400 degree Fahrenheit

Incident Date / Time	Description / Asset
1/1/2019	B Battery
1/2/2019	B Battery
1/3/2019	B, D Battery
1/4/2019	B Battery
1/5/2019	B Battery
1/6/2019	B Battery
1/7/2019	B Battery
1/8/2019	B Battery
1/9/2019	B Battery
1/10/2019	B Battery
1/11/2019	B Battery
1/12/2019	B Battery
1/13/2019	B Battery
1/14/2019	B Battery
1/16/2019	B Battery
1/17/2019	B Battery
1/18/2019	B Battery
1/19/2019	B Battery
1/20/2019	B Battery
1/21/2019	B Battery
1/22/2019	B Battery
1/23/2019	B Battery
1/24/2019	B Battery
1/25/2019	B, C Battery
1/26/2019	B Battery
1/27/2019	B Battery
1/28/2019	B Battery
1/29/2019	B Battery
1/30/2019	B, C Battery
1/31/2019	A, B, C, D Battery
2/1/2019	A, B, C, D Battery
2/2/2019	B, C, D Battery
2/3/2019	B, D Battery
2/4/2019	B Battery
2/5/2019	B Battery
2/6/2019	B Battery
2/7/2019	B Battery
2/8/2019	B Battery
2/9/2019	B, C Battery
2/10/2019	B Battery
2/11/2019	B, C Battery
2/12/2019	B Battery
2/13/2019	B Battery
2/14/2019	B Battery
2/15/2019	B Battery
2/16/2019	B Battery
2/17/2019	B Battery

2/18/2019	B Battery
2/19/2019	B Battery
2/20/2019	B Battery
2/21/2019	B Battery
2/22/2019	B Battery
2/23/2019	B Battery
2/24/2019	B Battery
2/25/2019	B, D Battery
2/26/2019	B, D Battery
2/27/2019	B, C Battery
2/28/2019	B Battery
3/1/2019	B Battery
3/2/2019	B Battery
3/3/2019	B Battery
3/4/2019	B Battery
3/5/2019	B Battery
3/6/2019	B Battery
3/7/2019	B, C Battery
3/8/2019	B Battery
3/9/2019	B Battery
3/10/2019	B Battery
3/11/2019	B Battery
3/12/2019	B Battery
3/13/2019	B Battery
3/14/2019	B Battery
3/15/2019	B Battery
3/16/2019	B Battery
3/17/2019	B Battery
3/18/2019	B Battery
3/19/2019	B Battery
3/20/2019	B, C Battery
3/21/2019	B Battery
3/22/2019	B, C Battery
3/23/2019	B Battery
3/24/2019	B, C Battery
3/25/2019	B, D Battery
3/26/2019	B Battery
3/27/2019	B, D Battery
3/28/2019	B Battery
3/29/2019	B Battery
3/30/2019	B Battery
3/31/2019	B Battery

Table 3: E.2.2(c) – Door Fire (required 15 min PS / 45 min CS)

Date	Battery	Oven#	Time Observed	P/S	c/s	Duration	Cause(s)	Corrective Action(s)
1/1/2019	В	21	6:00 AM	Х	х	8 hr	sole flue plugged	adjusted uptakes
1/1/2019	В	27	6:00 AM	х		8 hr	sole flue plugged	adjusted uptakes
1/1/2019	В	30	6:00 AM	Х		8 hr	sole flue plugged	adjusted uptakes
1/1/2019	В	38	6:01 AM	Х		8 hr	sole flue plugged	adjusted uptakes
1/1/2019	В	40	6:01AM	Х		8 hr	sole flue plugged	adjusted uptakes
1/1/2019	В	60	6:01 AM	Х		8 hr	sole flue plugged	adjusted uptakes
1/2/2019	В	63	1:21 PM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-/-/							and / or low / loss of draft	uptakes, door dampers and / or draft
1/2/2019	В	39	1:22 PM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
1/2/2019	В	32	1:22 PM	х	1	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/2/2019	В	31	1:22 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/2/2019	В	16	1:23 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
4 40 40040		4.0	40.00.014				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/3/2019	В	12	12:20 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/2/2010		- 22	42.22.004		, T	. AFi-	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/3/2019	В	22	12:23 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/3/2019	В	28	12:23 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1,3,2019		20	TE'ES LIAI		_ ^	/ TJ IIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
1/3/2019	В	31	12:23 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-,-,		32	32.23 1 101		^	- 43 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
1/3/2019	В	36	12:23 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
1/3/2019	В	63	12:25 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
1/3/2019	В	62	12:57 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues,
							plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/3/2019	В	28	12:58 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
	-				-		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/3/2019	В	25	12:58 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
4 10 10 04 0			40.00.004				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/3/2019	В	23	12:58 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/3/2019	В	22	12:58 PM	х		> 1E min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/3/2019	В	- 22	12.30 FIVI	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/4/2019	В	40	1:39 PM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-, ,,====			2.55 1 101	L.		- 13 11111	and / or low / loss of draft.	uptakes, door dampers and / or draft
1/4/2019	В	38	1:39 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_	_					and / or low / loss of draft	uptakes, door dampers and / or draft
1/4/2019	В	36	1:39 PM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					\vdash		and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/4/2019	В	35	1:39 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/4/2019	В	19	1:41 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/4/2019	В	38	2:01 PM		х	8 hr	sole flues plugged	adjusted uptakes
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/5/2019	В	60	6:57AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/E/2010	В		6.57.444	,		- 4F:	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/5/2019	В	44	6:57 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/5/2019	В	32	6:58 AM	х	D-1	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2, 3, 2013		32	U.JO AIVI			× 13 IIIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
1/5/2019	В	6	6:59 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
_, _,			0.33 AIVI	_^		× 13 mill	and / or low / loss of draft	uptakes, door dampers and / or draft
1/6/2019	В	64	7:18 AM	х		>15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
1/6/2019	В	22	7:19 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					-		and / or low / loss of draft	uptakes, door dampers and / or draft
1/6/2019	В	21	7:19AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/6/2019	В	21	7:19 AM		х	8 hr	and / or low / loss of draft sole flues blocked	uptakes, door dampers and / or draft adjust uptakes and door holes
1/6/2019	В	6	7:19 AM		X	8 hr	sole flues blocked	adjust uptakes and door noies adjust uptakes and door holes
					^			burner made sole flue adjustments and
1/6/2019	D	3	7:35 AM	х		30 min	low draft from D1 boiler	draft increased
A le tecto			0.55				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/6/2019	В	13	8:30 AM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/6/2010		12	0.30 444		ų l	AF	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/6/2019	В	12	8:30 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft

1/6/2019	В	29	8:30AM		X	8 hr	sole flues blocked	adjust uptakes and door holes
1/6/2019	В	32	8:30AM		х	8 hr	sole flues blocked	adjust uptakes and door holes
1/6/2019	В	22	8:31 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/0/2019	В	22	8.31 AIVI		^	> 45 IIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
1/6/2019	В	39	8:33 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/0/2019		33	6.33 AIVI			> 45 IIIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
1/6/2019	В	41	8:33AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2,0,2023		7-	0.5571101			, 43 mm	and / or low / loss of draft	uptakes, door dampers and / or draft
1/6/2019	В	59	8:35AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
., 0, 2023		33	0.5571101			7 17 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
1/7/2019	В	63	7:07 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			7.077	n in		- 25	and / or low / loss of draft	uptakes, door dampers and / or draft
1/7/2019	В	59	7:07 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-					and / or low / loss of draft	uptakes, door dampers and / or draft
1/7/2019	В	58	7:07 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1							and / or low / loss of draft	uptakes, door dampers and / or draft
1/7/2019	В	40	7:08 AM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				_			and / or low / loss of draft	uptakes, door dampers and / or draf
1/7/2019	В	28	7:08AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-							and / or low / loss of draft	uptakes, door dampers and / or draft
1/7/2019	В	20	7:08AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/0/2010	В	10	7:02AM	Х		0 -		adjusted uptakes
1/8/2019	В	19	7:02 AM	X		8 hr 8 hr	sole flues plugged sole flues plugged	adjusted uptakes
1/8/2019	В	1 12	7:02 AIVI	Α		8 nr		
1/8/2019	В	65	7:05 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
-							plugged sole flues, floor drops,	
1/8/2019	В	62	7:05 AM	Х		> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
1/0/2010	В	62	7.05 444	0	l x l	8 hr	sole flues plugged	adjusted uptakes
1/8/2019	В	62	7:05AM		^	8 nr	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/8/2019	В	43	7:06AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/8/2019	В	42	7:06 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
-							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/8/2019	В	38	7:06 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
						47-18 B B B B	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/8/2019	В	32	7:06 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draf
	_	_	-	_			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/8/2019	В	31	7:06AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
-							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/8/2019	В	29	7:06AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
1/8/2019	В	38	7:06 AM		x	8 hr	sole flues plugged	adjusted uptakes
1/8/2019	В	28	7:06AM		X	8 hr	sole flues plugged	adjusted uptakes
-							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/8/2019	В	31	7:26AM		x	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/9/2019	В	44	7:55AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/9/2019	В	34	7:56AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/9/2019	В	25	7:56AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/9/2019	В	24	7:56AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
1/9/2019	В	19	2:00 PM		x	8 hr	sole flues plugged	adjusted uptakes
1/9/2019	В	64	2:01 PM		l x l	g hr	sole flues plugged	adjusted uptakes
20.00		-					plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
/10/2019	В	59	7:15AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/10/2019	В	58	7:15 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
4 4							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/10/2019	В	43	7:15AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
44	_						plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
./10/2019	В	42	7:15 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
/10/2019	В	40	7:15AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	В	33	7:16 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
1/10/2019							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		28	7:16 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
	В							
1/10/2019							I plugged sole times tinor drops	contacted CCR, adjusted sole flues
1/10/2019	В	27	7:16 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
1/10/2019 1/10/2019 1/10/2019 1/10/2019		27	7:16 AM 7:16 AM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,

1/10/2019	В	21	7:16 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
1/10/2019	В	7	7:17 AM	х		> 15 min	structural issues with B6	adjusted draft and sole flues
1/10/2019	В	6	7:17 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
• •					_		and / or low / loss of draft	uptakes, door dampers and / or dra
1/11/2019 1/11/2019	В	65 32	7:14 AM 7:14 AM	X	-	8 hr 8 hr	sole flues blocked	adjusted uptakes and door holes adjusted uptakes and door holes
1/11/2019	В	31	7:14 AIVI 7:14 AM	X		8 hr	sole flues blocked	adjusted uptakes and door holes
1/12/2019	В	63	7:14AM	X		8 hr	sole flues plugged	adjusted uptakes and door holes
1/12/2019	В	20	7:15 AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
1/13/2019	В	64	11:23 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
1/13/2019	В	6	12:00 PM		x	8 hr	sole flues blocked	adjusted uptakes and door holes
1/13/2019	В	65	12:32 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
1/13/2019	В	64	12:32 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
							and / or low / loss of draft plugged soleflues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
1/13/2019	В	63	12:32 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
1/13/2019	В	62	12:32 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
1/13/2019	В	58	12:33 PM		х	> 45 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
1/13/2019	В	44	12:33 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
	_		40.00				plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
1/13/2019	В	43	12:33 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dr
1/13/2019	В	34	12:34 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
1/13/2019	В	33	12:34 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
1/13/2019	В	31	12:34 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
1/13/2019	В	28	12:35 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
	-						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
1/13/2019	В	27	12:35 PM	-	х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
1/13/2019	В	24	12:35 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
1/13/2019	В	12	12:36 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
1/14/2019	В	21	6:52 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
1/14/2019	В	22	6:52 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr
1/14/2019	В	28	6:53 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
1/14/2019	В	35	6:53 AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr contacted CCR, adjusted sole flue
		33				> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr contacted CCR, adjusted sole flue
1/14/2019	В	39	6:53 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
1/14/2019	В	40	6:54 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr
1/14/2019	В	42	6:54 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr
1/14/2019	В	43	6:54AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr
1/14/2019	В	44	6:55AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
1/14/2019	В		6:55AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr contacted CCR, adjusted sole flue
		58					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr contacted CCR, adjusted sole flue
1/14/2019	В	59	6:55 AM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr contacted CCR, adjusted sole flue
1/14/2019	В	62	6:56AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dr
1/15/2019	В	21	6:00 AM		X	8 hr	sole flues blocked	adjusted uptakes and door holes
1/15/2019	В	22	6:00AM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
1/15/2019	В	23	6:00AM	X		8 hr	sole flues blocked	adjusted uptakes and door holes
1/15/2019	В	27	6:00 AM	X	V -	8 hr	sole flues blocked	adjusted uptakes and door holes
1/15/2019	В	31	6:01 AM	Х	х	8 hr	sole flues blocked Insufficient burner response in	adjusted uptakes and door holes
1/15/2019	В	4	6:24AM	х		21 min	time, B1 draft issues	Adjusted sole flues

							aliana da ala filian filana da ana	contacted CCR, adjusted sole flues,
1/16/2019	В	41	12:56 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft
1/16/2019	В	40	12:56 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/16/2019	В	38	12:56 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/16/2019	В	33	12:56 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/16/2019	В	32	12:56 PM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
	-						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/16/2019	В	25	12:57 PM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/16/2019	В	20	12:57 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/16/2019	В	19	12:57 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/16/2019	В	38	2:01 PM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
1/16/2019	В	41	2:01 PM		х	8 hr	sole flues blocked	adjusted uptakes and door holes
1/17/2019	В	65	1:12 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/17/2019	В	58	1:12 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
				-			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/17/2019	В	6	1:14 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/17/2019	В	6	2:00 PM		Х	8 hr	and / or low / loss of draft	uptakes, door dampers and / or draft
1/17/2019	В	65	2:01 PM		х	8 hr	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/18/2019	В	12	12:30 PM		х	8 hr	sole flues plugged	adjusted uptakes
1/18/2019	В	22	12:33 PM		X	8 hr	sole flues plugged	adjusted uptakes
1/18/2019	В	28	12:33 PM		X	8 hr	sole flues plugged	adjusted uptakes
1/18/2019	В	33	12:33 PM		X	8 hr	sole flues plugged	adjusted uptakes
1/18/2019	В	36	12:36 PM		x	8 hr	sole flues plugged	adjusted uptakes
1/18/2019	В	44	12:36 PM		x	8 hr	sole flues plugged	adjusted uptakes
1/18/2019	В	16	1:15 PM	Х		8 hr	sole flues plugged	
1/20/2019	В	21	6:00AM	X		8 hr		adjusted uptakes
1/20/2019	В	28	6:00AM	X		8 hr	sole flue pugged	adjusted uptakes
1/20/2019	В	31	6:00AM	X	V	8 hr	sole flue pugged	adjusted uptakes
	В	40	6:01 AM	X	X	8 hr	sole flue pugged	adjusted uptakes
1/20/2019	В	59	6:01 AM	X		8 hr	sole flue pugged	adjusted uptakes
1/20/2019	В	60		X		8 hr	sole flue pugged	adjusted uptakes
1/20/2019	В	80	6:01AM	^		8 111	sole flue pugged plugged sole flues, floor drops,	adjusted uptakes contacted CCR, adjusted sole flues,
1/21/2019	В	12	10:20 AM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/21/2019	В	21	10:21 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/21/2019	В	24	10:21 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/21/2019		20	10:21 AAA		V	> AE min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/21/2019	В	28	10:21 AM		Х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/21/2019	В	32	10:21 AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/21/2019	В	33	10:21AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/21/2019	В	34	10:21 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/22/2019	В	40	8:13 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/23/2019	В	6	12:29 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/23/2019	В	36	12:32 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/23/2019	В	44	12:34 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/23/2019	В	42	1:58 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/23/2019	В	39	1:58 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		_					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/23/2019	В	38	1:59 PM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
		36	1:59 PM	х		> 15 min		
1/23/2019	В	36	1.55 1 141	^		> 13 11111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,

1 /22 /2010	В	21	1:59 PM	v		s 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/23/2019	В	21	1:59 PIM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/23/2019	В	6	2:00 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/24/2019	В	43	12:47 PM	х	İ	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/24/2013		43	12.47 FIVI	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/24/2019	В	33	12:48 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/24/2019	В	32	12:48 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/24/2015		J2	12.40 1101	^		2 13 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
1/24/2019	В	31	12:48 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low/ loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/24/2019	В	29	12:49 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-,,				,			and / or low / loss of draft plugged soleflues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/24/2019	В	28	12:49 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/24/2019	В	20	12:49 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-,-,							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/24/2019	В	19	12:49 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/25/2019	В	40	7:44 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/26/2019	В	39	7:55 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/26/2019	В	35	7:55 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
4 104 15545		4.5	756	-			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/26/2019	В	16	7:56 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/27/2019	В	44	7:00 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues,
4 /07 /0040	_	20	700.014			45	plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/27/2019	В	38	7:00 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/27/2019	В	31	7:00 AM		x	8 hr	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/27/2010	В	76	7:01 AM	v		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/27/2019	В	25	7.01 AIVI	Х		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
1/27/2019	В	22	7:01 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/27/2019	В	21	7:01AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-,2,,2025			7.027101	- "		23 11111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/27/2019	В	27	7:25 AM		x	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/27/2019	В	33	7:25 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-,-,							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/28/2019	В	28	7:19 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/28/2019	В	20	7:19 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/28/2019	В	19	7:19 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/29/2019	В	40	7:12 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/29/2019	В	39	7:12 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/29/2019	В	31	7:12 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues,
	_		742444	.,			plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/29/2019	В	16	7:13 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/29/2019	В	6	7:13 AM	х		8 hr	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/20/2010	P	25	12-49 DA4	v		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/30/2019	В	25	12:48 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/30/2019	В	22	12:48 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/1/2019	В	32	12:37 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/1/2019	5	٦٤	12.37 FIVI		^	/ TIMI	and / or low / loss of draft	uptakes, door dampers and / or draft
2/1/2019	В	31	12:37 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/1/2019	В	27	12:37 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-, -, -013			22.27 1 101		-	- 211111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,

2/1/2019	В	20	12:38 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-,-,	_						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/1/2019	В	38	1:20 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/1/2019	В	32	1:20 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged soleflues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/1/2019	В	21	1:20 PM	X	- 1	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/1/2019	В	38	1:20 PM		X	8 hr	sole flue plugged	adjusted uptakes
2/2/2019	В	44	7:09 AM	X		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/2/2019	В	41	7:09AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/2/2019	В	40	7:09AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2,2,2013		10	7.0371111	n		7 23 (1)	and / or low / loss of draft	uptakes, door dampers and / or draft
2/2/2019	В	39	7:09 AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/2/2019	В	36	7:09AM	v		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/2/2019	В	30	7:USAIVI	Х		> 13 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/2/2019	В	25	7:10AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/2/2019	В	23	7:10AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/2/2019	В	22	7:10 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/2/2019	В	20	7:10AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/2/2019	В	19	7:10AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/2/2019	ь	13	7.10AW	^		> 13	and / or low / loss of draft	uptakes, door dampers and / or draft
2/3/2019	В	43	7:00 AM	х		> 15 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/3/2019	В	42	7:00AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/3/2019	В	35	7:00 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/3/2019	В	41	7:00AM		X	8 hr	and / or low / loss of draft sole flue plugged	uptakes, door dampers and / or draft adjusted uptakes
2/3/2019	В	36	7:00AM		x	8 hr	sole flue plugged	adjusted uptakes adjusted uptakes
2/3/2019	В	31	7:01AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				^			and / or low / loss of draft	uptakes, door dampers and / or draft
2/3/2019	В	31	7:01 AM	_	X	8 hr	sole flue plugged plugged sole flues, floor drops,	adjusted uptakes contacted CCR, adjusted sole flues,
2/3/2019	В	28	8:04 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/4/2019	В	45	6:50AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2,4,2015		73	0.5071111			× 13 mm	and / or low / loss of draft	uptakes, door dampers and / or draft
2/4/2019	В	21	6:51 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
0.44.4004.0		42	654444			45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/4/2019	В	12	6:51 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/4/2019	В	6	6:51AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/5/2019	В	28	6:55AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/5/2019	В	22	6:56AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
_, _, _,_			2.30/1141			- 13 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
2/6/2019	В	6	12:34 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
		30	12.40.214	,,		. 15	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/7/2040		38	12:40 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/7/2019	В						plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/7/2019	В	19	12:41 PM	х		> 15 min		
2/7/2019	В	19				> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
			12:41 PM 7:42AM	x		> 15 min		
2/7/2019	В	19	7:42AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/7/2019	В	19					and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/7/2019	В	19	7:42AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/7/2019 2/8/2019 2/8/2019 2/8/2019	B B B	19 21 28 29	7:42AM 7:42 AM 7:42 AM	x x		> 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/7/2019 2/8/2019 2/8/2019	B B	19 21 28	7:42AM 7:42 AM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/7/2019 2/8/2019 2/8/2019 2/8/2019	B B B	19 21 28 29	7:42AM 7:42 AM 7:42 AM	x x		> 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/7/2019 2/8/2019 2/8/2019 2/8/2019 2/8/2019	B B B B	19 21 28 29 34	7:42 AM 7:42 AM 7:42 AM 7:43 AM	x x x		> 15 min > 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft

2/8/2019	В	40	7:43 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/0/2015	-	1	7.43 AIVI	^		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
2/9/2019	В	31	7:28 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/10/2019	В	6	8:07 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/10/2019	В	6	8:07 AM		x	8 hr	and / or low / loss of draft sole flue plugged	uptakes, door dampers and / or draft adjusted uptakes
					i i		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/10/2019	В	12	9:03 AM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/10/2019	В	19	9:03 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/10/2019	В	24	9:03 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/10/2015	В	1 24	9.03 AIVI		^	743 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
2/10/2019	В	25	9:03 AM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/10/2019	В	12	9:03 AM	Х		8 hr	sole flue plugged	adjusted uptakes
2/10/2019	В	24	9:03 AM	X		8 hr	sole flue plugged	adjusted uptakes
2/10/2019	В	25	9:03 AM	Х		8 hr	sole flue plugged plugged sole flues, floor drops,	adjusted uptakes contacted CCR, adjusted sole flues,
2/10/2019	В	31	9:04 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/10/2019	В	34	9:04 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues,
2/10/2019	В	34	9:04 AM	Х		8 hr	sole flue plugged	uptakes, door dampers and / or draft adjusted uptakes
2/10/2019	В	48	9:04 AM	Х		8 hr	sole flue plugged	adjusted uptakes
2/10/2019	В	48	9:07 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft	uptakes, door dampers and / or draft burner made sole flue adjustments and
2/11/2019	D	3	6:35 AM	Х		17 min	low draft from D1 boiler	draft increased
2/12/2019	В	40	6:40 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7-7							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/12/2019	В	28	6:40 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/13/2019	В	39	1:21 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-,,		"					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/14/2019	В	31	12:28 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/14/2019	В	35	12:28 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/14/2019	В	36	12:28 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/14/2019	В	31	1:08 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/14/2019	В	36	1:08 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/15/2019	В	19	1:30 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		-		-			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/15/2019	В	22	1:30 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/15/2019	В	23	1:30 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				_			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/15/2019	В	24	1:30 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/15/2019	В	28	1:31 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/15/2019	В	40	1:31 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/16/2019	В	38	6:45 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				_			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/16/2019	В	21	6:45 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/16/2019	В	6	6:46 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/17/2019	В	6	6:55 AM		х	8 hr	and / or low / loss of draft sole flue plugged	uptakes, door dampers and / or draft adjusted uptakes
2/17/2019	D	3	8:15 AM	х		20 min	low draft from D1 boiler	burner made sole flue adjustments and
-/1//2013	U	3	6.13 AIVI			ZU IIIIII		draft increased
2/17/2019	В	12	8:57 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/17/2010	D	10	9.50444		, l	\ AE	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/17/2019	В	19	8:58AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/17/2019	В	20	8:58AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/17/2010	-	30	0.50444		\ \ \	AFi-	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/17/2019	В	28	8:58AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft

							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/17/2019	В	33	8:58 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/17/2019	В	34	8:58 AM	. 3	х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft
2/17/2019	В	41	9:01 AM		X	> 45 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/17/2019	В	42	9:01 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/1//2015		72	3.01 AW			/ +3 mm	and / or low / loss of draft	uptakes, door dampers and / or draft
2/17/2019	В	43	9:01 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
0 44 7 40 04 0							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/17/2019	В	44	9:01AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/17/2019	В	45	9:01 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/18/2019	В	31	6:55 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/18/2019	В	22	6:55 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2,20,2025			0.5571111			7 23 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
2/18/2019	В	20	6:55 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2 (42 (2242	_		657.414	,,		614		burner made sole flue adjustments and
2/18/2019	В	4	6:57 AM	х		6 hrs 4 min	low draft from B1 boiler	draft increased
2/19/2019	В	40	6:40 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/19/2019	В	28	6:40AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/19/2019	В	19	6:41 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/13/2013		13	0.427101	^		> 13 mm	and / or low / loss of draft	uptakes, door dampers and / or draft
2/21/2019	В	36	12:18 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/21/2019	В	12	1:08 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/21/2019	В	20	1:08 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
2/21/2019	В	22	1:08 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/21/2019	В	24	1:09 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/21/2015		24	1.05 FIVI	^		> 13	and / or low / loss of draft	uptakes, door dampers and / or draft
2/21/2019	В	27	1:09 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/21/2019	В	29	1:09 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/21/2019	В	33	1:09 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				-			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft
2/21/2019	В	34	1:10 PM	Х		> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/21/2010	В	35	1:10 PM	V		> 1E min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/21/2019	В	35	1.10 FW	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/21/2019	В	36	1:10 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/21/2019	В	43	1:10 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/21/2019	В	44	1:10 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/22/2019		48		X			and / or low / loss of draft	uptakes, door dampers and / or draft
2/22/2019	В	40	1:21 PM 1:21 PM	X		8 hr 8 hr	sole flue plugged	adjusted uptakes adjusted uptakes
2/22/2019	В	31	1:21 PM	Х		8 hr	sole flue plugged	adjusted uptakes
2/22/2019	В	6	1:21 PM	X		8 hr	sole flue plugged	adjusted uptakes
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/24/2019	В	35	8:02 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/24/2019	В	32	8:02 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/24/2019	В	24	8:03 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/24/2019	В	22	8:03 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-1-4/2013	ь	- 22	0.UJ AIVI	^		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
2/24/2019	В	19	8:03 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/25/2019	В	40	6:57 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/25/2019	В	34	6:57 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-, -0, 2023	,		5.5, AIVI	^			and / or low / loss of draft	uptakes, door dampers and / or draft

				1			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/25/2019	В	29	6:57 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/25/2019	В	28	6:57 AM	х		> 15 min	plugged soleflues, floor drops,	contacted CCR, adjusted sole flues,
2,25,2525			0.577	^		, 25 mm	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2019	В	6	6:27 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/26/2019	В	20	6.29 AM		V	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/20/2019	В	20	6:28 AM		X	> 45 Mill	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2019	В	27	6:28 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/26/2019	В	28	6:28 AM		x	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2019	В	31	6:28 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/26/2019	В	32	6:28 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2019	В	33	6:28 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2,20,2023			0.207		^	7 43 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2019	В	34	6:28 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/26/2019	В	36	6:29 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/20/2019	ь	30	0.23 AIVI		^	> 45 IIIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2019	В	38	6:29 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
. / /							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/26/2019	В	40	6:29 AM		x	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2019	В	45	6:29 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/26/2019	В	31	7:08 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2019	В	20	7:08 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-, -, -, -, -, -, -, -, -, -, -, -, -, -			7.00			- 25	and / or low / loss of draft	uptakes, door dampers and / or draft
2/27/2019	В	35	1:12 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/27/2018	В	25	1:26 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/27/2019	В	25	1.20 FIVI	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/27/2019	В	34	1:27 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
. (4.000				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/27/2019	В	35	1:27 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/27/2019	В	44	1:27 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/28/2019	В	43	1:11 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/28/2019	В	40	1:11 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					\vdash		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/28/2019	В	32	1:11 PM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/28/2019	В	20	1:12 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/20/2013		20	1.12 141			> 13	and / or low / loss of draft	uptakes, door dampers and / or draft
2/28/2019	В	25	1:12 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/20/2010		22	1.12 084	J		v 16 mil	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/28/2019	В	23	1:12 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/28/2019	В	21	1:12 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
	_						and / or low / loss of draft plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/28/2019	В	6	1:13 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/1/2019	В	22	1:33 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/1/2019	В	36	1:34 PM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/2/2019	В	34	6:38 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-, -, -, -, -,		3.7	5.5674141			- 13 1/1111	and / or low / loss of draft	uptakes, door dampers and / or draft
3/2/2019	В	31	6:38 AM	×		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/2/2010	-	40	6,40,444	.,		. 45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/3/2019	В	48	6:48 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/3/2019	В	45	6:48 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/3/2019	В	43	6:48 AM	Х		> 15 min	and / or low/ loss of draft	uptakes, door dampers and / or draft

3/3/2019	В	40	6:48 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/3/2019		40	0.48 AIVI	^		> 13	and / or low / loss of draft	uptakes, door dampers and / or draft
3/3/2019	В	35	6:48 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/3/2019	В	35	6:48 AM		х	8 hr	and / or low / loss of draft sole flues plugged	uptakes, door dampers and / or draft adjusted uptakes
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/3/2019	В	25	6:49 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/3/2019	В	24	6:49 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							and / or low / loss of draft	uptakes, door dampers and / or draft
3/3/2019	В	19	6:49 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/3/2019	В	31	6:49AM		х	8 hr	sole flues plugged	adjusted uptakes
3/3/2019	В	25	6:49 AM		х	8 hr	sole flues plugged	adjusted uptakes
3/3/2019	В	24	6:49 AM		Х	8 hr	sole flues plugged	adjusted uptakes
3/3/2019	В	19	6:49 AM		Х	8 hr	sole flues plugged	adjusted uptakes
3/3/2019	В	40	7:13 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/5/2019	В	35	6:24AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/5/2019	В	34	6:24AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/3/2013		34	0.247101	~		7 13 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
3/5/2019	В	32	6:24 AM	х	*	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/5/2019	В	27	6:24AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/5/2019		16	6:25 AM	v		. 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/3/2019	В	16	0:23 AIVI	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/6/2019	В	48	2:26 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/6/2019	В	40	2:26 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/5/2010		36	2.26.014	.,		. 45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/6/2019	В	36	2:26 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/6/2019	В	31	2:27 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
, ,,							and / or low / loss of draft	uptakes, door dampers and / or draft
3/6/2019	В	28	2:27 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/6/2019	В	20	2:27 PM	Х	NO.	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/6/2019	В	6	2:28 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
3/7/2019	В	6	12:15 PM		X	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/7/2010	_	20	4245 814		,	. 45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/7/2019	В	20	12:15 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/7/2019	В	31	12:17 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
3/7/2019	В	33	12:17 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/7/2019	В	34	12:17 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/7/2019	В	45	12:20 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3,7,2023		-,,	12.201111			7 43 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
3/7/2019	В	39	1:07 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
		_		_			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/7/2019	В	34	1:07 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/8/2019	В	32	8:41AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/0/2013		J2	0.41/101			> 13	and / or low / loss of draft	uptakes, door dampers and / or draft
3/9/2019	В	40	6:50AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/9/2019	В	39	6:50AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
/10/2010	Р	40	7-1 E ABA	V		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/10/2019	В	48	7:15 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
3/10/2019	В	42	7:15 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draf
3/10/2019	В	41	7:15 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
lan land			745			. 4-	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/10/2019	В	34	7:15 AM	Х	7	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/10/2019	В	29	7:16 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-, 10, 2013	ی	25	7.13 AIVI	^		, T) IIIIII	and / or low / loss of draft	uptakes, door dampers and / or draf

							1	
3/10/2019	В	28	7:16AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/10/2010		21	7.16 AAA	x	1	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/10/2019	В	21	7:16AM	Λ.		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/10/2019	В	20	7:16AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
Maria de la							and / or low / loss of draft	uptakes, door dampers and / or draft
3/10/2019	В	19	7:16AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/10/2019	В	16	7:16AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
	_		i i		i i		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues.
3/11/2019	В	27	6:34AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/11/2019	В	28	6:34 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/11/2019	В	20	0.34 AIVI		^	2 43 IIIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
3/11/2019	В	31	6:34AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
3/11/2019	В	31	7:15 AM	X		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							and / or low / loss of draft plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/11/2019	В	27	7:16 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
a (a a (a a a						4	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/12/2019	В	40	7:10AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/12/2019	В	33	7:10AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/12/2013	В	33	7.10AIVI			> 13	and / or low / loss of draft	uptakes, door dampers and / or draft
3/12/2019	В	6	7:11 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
3/13/2019	В	36	12:24 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/13/2019	В	32	12:25 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2 /22 /22 /2	_		40.07.04	.,			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/13/2019	В	21	12:25 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/13/2019	В	20	12:25 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3,13,1013		20	12.251141			× 25 mm	and / or low / loss of draft	uptakes, door dampers and / or draft
3/13/2019	В	19	12:25 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/14/2010	В	6	12.20.014		l x l	8 hr	and / or low / loss of draft	uptakes, door dampers and / or draft
3/14/2019	В	20	12:20 PM		X	8 hr	sole flues plugged sole flues plugged	adjusted uptakes adjusted uptakes
3/14/2019	В	21	12:23 PM	5 3	X	8 hr	sole flues plugged	adjusted uptakes
3/14/2019	В	28	12:23 PM	Х	х	8 hr	sole flues plugged	adjusted uptakes
3/14/2019	В	29	12:23 PM		X	8 hr	sole flues plugged	adjusted uptakes
3/14/2019	В	32	12:24 PM	-	X	8 hr	sole flues plugged	adjusted uptakes
3/14/2019	В	35	12:24 PM		X	8 hr	sole flues plugged	adjusted uptakes
		- 55	12.24 [14]				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/14/2019	В	39	12:53 PM	х		> 15 min	1	_
3/14/2019	В			Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/14/2019 3/15/2019	В			x	34	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
		39	12:53 PM				and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
		39	12:53 PM		>		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/15/2019 3/15/2019	ВВ	39 40 35	12:53 PM 1:49 PM 1:49 PM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/15/2019	В	39 40	12:53 PM 1:49 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
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3/15/2019 3/15/2019 3/15/2019 3/15/2019	B B B	39 40 35 34 27	12:53 PM 1:49 PM 1:49 PM 1:49 PM 1:50 PM	x x x		> 15 min > 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
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3/15/2019 3/15/2019 3/15/2019 3/15/2019 3/15/2019 3/16/2019 3/16/2019 3/16/2019 3/17/2019	B B B B B B B B	39 40 35 34 27 23 41 32 31	12:53 PM 1:49 PM 1:49 PM 1:49 PM 1:50 PM 7:28 AM 7:28 AM 7:28 AM 7:22 AM	x x x x x x x x x		> 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/15/2019 3/15/2019 3/15/2019 3/15/2019 3/15/2019 3/16/2019 3/16/2019 3/16/2019 3/17/2019	B B B B B B B B B	39 40 35 34 27 23 41 32 31 43	12:53 PM 1:49 PM 1:49 PM 1:49 PM 1:50 PM 7:28 AM 7:28 AM 7:22 AM	x x x x x x x x x x x x x x x x x x x		> 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/15/2019 3/15/2019 3/15/2019 3/15/2019 3/15/2019 3/16/2019 3/16/2019 3/16/2019 3/17/2019	B B B B B B B B B	39 40 35 34 27 23 41 32 31 43	12:53 PM 1:49 PM 1:49 PM 1:49 PM 1:50 PM 7:28 AM 7:28 AM 7:22 AM	x x x x x x x x x x x x x x x x x x x		> 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, up
3/15/2019 3/15/2019 3/15/2019 3/15/2019 3/15/2019 3/16/2019 3/16/2019 3/17/2019 3/17/2019 3/17/2019 3/17/2019	B B B B B B B B B B B B B B B B B B B	39 40 35 34 27 23 41 32 31 43 42 36 35	12:53 PM 1:49 PM 1:49 PM 1:49 PM 1:50 PM 7:28 AM 7:28 AM 7:22 AM 7:22 AM 7:22 AM 7:22 AM	x x x x x x x x x x x x x x x x x x x		> 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/15/2019 3/15/2019 3/15/2019 3/15/2019 3/15/2019 3/16/2019 3/16/2019 3/17/2019 3/17/2019 3/17/2019	B B B B B B B B B B B B B B B B B B B	39 40 35 34 27 23 41 32 31 43 42	12:53 PM 1:49 PM 1:49 PM 1:49 PM 1:50 PM 7:28 AM 7:28 AM 7:22 AM 7:22 AM	x x x x x x x x x x x x x x x x x x x		> 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft

	-						plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/17/2019	В	21	7:23 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/17/2019	В	20	7:23 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/17/2019	В	19	7:23AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						- 23 111111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/18/2019	В	28	6:41 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/18/2019	В	24	6:42 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/18/2019	В	16	6:42AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/18/2019	В	6	6:42 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/19/2019	В	27	6:46AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
3/20/2019	В	47	12:58 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/20/2019	В	42	12:58 PM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
3/20/2019	В	42	12:58 PW	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
3/20/2019	В	41	12:58 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/20/2019	В	40	12:58 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues,
3/20/2019	В	39	42-50-004	х		. 45 min	plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
3/20/2019	В	39	12:58 PM	^		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and or draft
3/20/2019	В	34	12:59 PM	х		> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
3/20/2019	В	32	12:59 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/21/2019	В	35	1:03 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
3/21/2019	В	31	1:03 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
3/21/2019	В	25	1:03 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/21/2010		24	4.02.004	V		. 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/21/2019	В	24	1:03 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/21/2019	В	35 31	1:03 PM 1:03 PM		X	8 hr 8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
3/21/2019	В	21	1:04 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/21/2019	В	21	1.04 FIVI	_^		>1311111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
3/21/2019	В	20	1:04 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
3/21/2019	В	19	1:04 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/21/2019	В	6	1:04 PM		X	8 hr	and / or low / loss of draft sole flues plugged	uptakes, door dampers and / or draf adjusted uptakes
3/21/2019	В	32	1:17 PM		X	8 hr	sole flues plugged	adjusted uptakes
3/22/2019	В	48	12:41 PM	х		. 45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/22/2013	В	40	12.41 PIVI			> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
3/22/2019	В	40	12:41 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
3/22/2019	В	34	12:41 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3,22,2023		34	12.42(10)			7 13 11111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/23/2019	В	45	6:40 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
3/24/2019	В	47	8:00AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
3/24/2019	В	42	8:00 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/24/2013		42	8.00 AIVI			> 13 111111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf
3/24/2019	В	36	8:00AM	Х		> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
3/24/2019	В	35	8:00AM	х		> 15 min	piugged sole flues, floor drops,	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
3/24/2019	P	34	8:0044	V		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/24/2013	В	34	8:00AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
3/24/2019	В	32	8:01 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
3/24/2019	В	25	8:01 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draf
3/24/2019	В	24	8:01 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,

3/24/2019	В	20	8:01 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/24/2019	В	16	8:01 AM	х		> 1 5 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/24/2019	В	32	8:01 AM		x	8 hr	sole flues plugged	adjusted uptakes
3/24/2019	В	24	8:01 AM		X	8 hr	sole flues plugged	adjusted uptakes
					^		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/25/2019	В	31	6:46 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/25/2019	В	19	6:46AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/26/2019	В	41	6:37 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/26/2019	В	40	6:37 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/26/2019	В	6	6:38 AM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3/20/2013	ь	0	0.36 AIVI	_^_		> 13 IIIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
3/26/2019	D	3	6:40 AM	Х		55 min	low draft due to HRSG cleaning	closed sole flues
3/27/2019	В	35	8:00AM	X	X	8 hr	sole flues blocked	adjusted uptakes and door holes
3/27/2019	В	33	8:00 AM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
3/27/2019	В	31	8:00 AM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
3/27/2019	В	24	8:00 AM	Х		8 hr	sole flues blocked	adjusted uptakes and door holes
3/27/2019	В	6	8:00AM		X	8 hr	soleflues blocked	adjusted uptakes and door holes
3/28/2019	В	34	1.50.014	х		5 1Fi-	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/26/2019	В	34	1:58 PM	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/28/2019	В	32	1:59 PM	х		s 4C min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/20/2019	В	32	1:39 PIVI	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/28/2019	В	25	1:59 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/28/2019	В	20	1:59 PM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
0.400.400.40							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/29/2019	В	40	6:36 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/29/2019	В	39	6:36 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/23/2023		33	0.30 AIVI	_^_		>13111111	and / or low / loss of draft	uptakes, door dampers and / or draft
3/29/2019	В	31	6:36 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft	uptakes, door dampers and / or draft
3/29/2019	В	19	6:37 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
				_			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/30/2019	В	36	7:06 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/30/2019	В	34	7:06 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
3/30/2019	В	28	7:06 AM	х		> 1 5 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/31/2019	В	40	7:04 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
3/31/2019	В	39	7:04AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/31/2019	В	35	7:04AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
3/31/2019	В	40	7:04 AM		X	8 hr	sole flues blocked	adjusted uptakes
3/31/2019	В	35	7:04 AM		X	8 hr	sole flues blocked	adjusted uptakes
	В	31	7:04 AM		-	8 hr	sole flues blocked	
3/31/2019	В	1 31	7.04 AIVI		X	8 nr		adjusted uptakes
3/31/2019	В	24	7:05 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft



Indiana Harbor Coke Company, L.P. 3210 Watling Street, MC 2-990 East Chicago, IN 46312 (219) 378-3949 FAX (219) 397-4590

January 24, 2019

Mr. David Cline Compliance Data Section Indiana Department of Environmental Management 100 North Senate Avenue, Mail Code 61 – 53 IGCN – 1003 Indianapolis, IN 46204 – 2551

40 CFR 63, Subparts L and CCCCC 2018 Second Semi-Annual Compliance Certification

Dear Mr. Cline:

Indiana Harbor Coke Company, L.P. (IHCC) operates a coke production facility located in East Chicago, Indiana. The facility is subject to the National Emissions Standards for Coke Oven Batteries (MACT L) and the National Emissions Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks (MACT CCCCC).

Per applicable reporting and recordkeeping provisions of 40 CFR 63.311 and 40 CFR 63.7341, IHCC is providing the following information for the semiannual compliance period of July 1, 2018 through December 31, 2018.

- IHCC did not experience any malfunction events with respect to the standards of MACT L during the current reporting period.
- IHCC experienced deviations from the work practice standards listed in MACT L and incorporated in the facility's Work Practice Plan pursuant to 40 CFR 63.303(b)(3). IHCC is reporting these deviations in Table 1 below.

TABLE 1. DEVIATIONS FROM MACT L WORK PRACTICE STANDARDS

Dates	Event Description	Corrective Action
07/01 - 07/03, 07/05 - 07/12, 07/15 - 07/19, 07/21 - 07/22, 07/24, 07/27 - 07/28, 07/30, 08/02, 08/04 - 08/05, 08/07, 08/10 - 08/11, 08/13 - 08/14, 08/19 - 08/20, 08/22, 08/24 - 08/26, 08/31, 09/03, 09/06, 09/08 - 09/09, 09/11, 09/14, 09/20 - 09/21, 09/23, 09/25, 09/28 - 09/30, 10/02, 10/08, 10/11, 10/13, 10/14, 10/16, 10/19 - 10/23, 10/26, 10/28, 10/29, 11/03, 11/05, 11/06, 11/08, 11/09, 11/11 - 11/14, 11/16, 11/18, 11/20 - 11/22, 11/24, 11/26 - 12/01, 12/03, 12/07, 12/09, 12/10, 12/12, 12/13, 12/15, 12/16, 12/17, 12/19, 12/20, 12/22 - 12/28, 12/30, 12/31	IHCC personnel recorded that the oven damper was not positioned to maximize draft during charging activities on the listed dates.	IHCC is installing a new damper positioning system to ensure dampers are positioned to maximize draft during charging. Additionally, IHCC performs maintenance and repairs on the existing uptake damper assemblies daily. Please see Attachment A for more details.
11/04, 11/06, 11/08, 11/19, 11/22, 11/23, 11/26, 11/28, 11/30, 12/03, 12/05, 12/08 – 12/10, 12/12 – 12/18, 12/22, 12/23 – 12/25, 12/27, 12/28, 12/30, 12/31	IHCC personnel observed positive pressure on B, C and/or D Battery common tunnel attributable to inadequate condensation drainage in the differential pressure cell line, weather, fluctuating process conditions involving the ovens, and the heat recovery steam generators (HRSGs).	IHCC operations personnel monitor oven conditions to maintain negative draft within the common tunnel. Cleaning and maintenance has been performed on the common tunnel that is expected to improve the performance of the pressure gauges measuring tunnel draft as well as make adjustments for improved condensation drainage.

- IHCC experienced deviations from the work practice standards established for the observation of coke oven doors for leaks as required by 40 CFR 63.303(c)(2). Please see Attachment B for more details.
- IHCC did not experience any malfunction events with respect to the standards of MACT CCCCC during the current reporting period.
- During the current reporting period, IHCC did not experience any deviations from the emission limitations, work practice standards, or operation and maintenance requirements listed in MACT CCCCC. The coke oven batteries operated for 4,416 hours during this semi-annual compliance period.

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As the responsible official, I certify that based on information and belief formed after reasonable inquiry, the statements and information in the above are true, accurate, and complete.

Sincerely,

Patrick Nigl
General Manager

cc:

Clifford Yukawa IDEM/Northwest Regional Office 330 W US Highway 30, Suite F Valparaiso, IN 46385

Edward Nam Air and Radiation Division US EPA Region 5 77 West Jackson Boulevard (A-18J) Chicago, IL 60604

ATTACHMENT A:

UPTAKE DAMPER POSITION DEVIATIONS

Uptake damper position indicated closed following the charge of the oven

Incident	Description/Asset
Date/Time	A63
7/1/2018	B26
7/2/2018	
7/3/2018	A66
7/5/2018	B(22, 26)
7/6/2018	A66
7/7/2018	B22
7/8/2018	A(43, 46), B26
7/9/2018	B34
7/10/2018	A66
7/11/2018	B26
7/12/2018	A66
7/15/2018	A66
7/16/2018	B22
7/17/2018	B44
7/18/2018	C34
7/19/2018	B22
7/21/2018	A66
7/22/2018	B22
7/24/2018	A66
7/27/2018	D33
7/28/2018	A66, B35
7/30/2018	B(24, 35)
8/2/2018	A62, B35
8/4/2018	B22
8/5/2018	B31
8/7/2018	B22
8/10/2018	B22
8/11/2018	B46
8/13/2018	B(22, 46)
8/14/2018	B22
8/19/2018	D10
8/20/2018	B24
8/22/2018	B22

8/24/2018	B46
8/25/2018	B22
8/26/2018	B(40, 46)
8/31/2018	A28, B22
9/3/2018	A6, B22
9/6/2018	B22
9/8/2018	A29
9/9/2018	B22
9/11/2018	B(39, 41)
9/14/2018	B22
9/20/2018	D59
9/21/2018	B(26, 29)
9/23/2018	A37, B39
9/25/2018	D57
9/28/2018	B(23, 60), D59
9/29/2018	B(41, 42, 45)
9/30/2018	D10
10/2/2018	B39
10/8/2018	B(23, 26, 29, 41)
10/11/2018	A42
10/13/2018	B(20, 21)
10/14/2018	B39
10/16/2018	B26
10/19/2018	B46
10/20/2018	B(40, 63)
10/21/2018	B60
10/22/2018	B(19, 21, 24, 46)
10/23/2018	B23
10/26/2018	B46
10/28/2018	B46
10/29/2018	A50
11/3/2018	B(19, 46)
11/5/2018	B46
11/6/2018	B60
11/8/2018	B46
11/9/2018	B35
11/11/2018	A9, B45
11/12/2018	B35
11/13/2018	B45
11/14/2018	B35

11/16/2018	B(35, 41, 45)
11/18/2018	B35
11/20/2018	D57
11/21/2018	B45
11/22/2018	B27
11/24/2018	B(35, 45)
11/26/2018	B(34, 35)
11/27/2018	B40
11/28/2018	B45
11/29/2018	B(34,43)
11/30/2018	B40
12/1/2018	B45
12/3/2018	B40
12/7/2018	B(31,34), C9
12/9/2018	B43
12/10/2018	B(34,40,45)
12/12/2018	D40
12/13/2018	B10
12/15/2018	B(34, 60)
12/16/2018	B43
12/17/2018	B(34,40)
12/19/2018	A64, B45
12/20/2018	B(16, 34, 43)
12/22/2018	B45
12/23/2018	B(34, 40)
12/24/2018	B43
12/25/2018	B(34, 45)
12/26/2018	B(16, 19, 40), D28
12/27/2018	B43
12/28/2018	B(30, 34, 40, 45)
12/30/2018	B(19, 30, 34, 43, 45)
12/31/2018	B40, D26

ATTACHMENT B:

DOOR LEAK DEVIATIONS

Date	Battery	Oven#	Time Observed	P/S	c/s	Duration	Cause(s)	Corrective Action(s)
7/1/2018	A	55	6:00AM	Х	Х	8 h	sole flues plugged	adjusted uptakes and door holes
7/1/2018	A	59	6:32 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-			and / or low / loss of draft	uptakes, door dampers and / or draft
7/1/2018	A	63	6:32 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
				İ			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/1/2018	A	66	6:32 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/1/2018	В	60	6:37 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
//1/2016		00	0.37 AIVI	_ ^		> 45 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
7/1/2018	В	58	6:37 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/1/2018	В	6	6:39AM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
7/1/2010	А	56	8:35 AM	İ	х	> 45 min	plugged soleflues, floor drops,	contacted CCR, adjusted sole flues,
7/1/2018	^	30	0.33 AIVI		^	2 43 IIIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
7/1/2018	A	57	8:35 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	1000				2		and / or low / loss of draft	uptakes, door dampers and / or draft
7/1/2018	Α	59	8:35 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
- 4- 4				11/2/11			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/1/2018	A	42	8:37 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/1/2018	A	44	8:37 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
, _, _0_0			2.2771141			3	and / or low / loss of draft	uptakes, door dampers and / or draft
7/1/2018	В	6	8:50AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/1/2018	В	27	8:51 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
- 1- 1						-5.5 W	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/1/2018	В	28	8:51 AM		X	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
7/1/2018	В	60	8:54 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					^		and / or low / loss of draft	uptakes, door dampers and / or draft
7/1/2018	В	27	2:00 PM	X		8 h	sole flues plugged	adjusted uptakes and door holes
7/1/2018	В	28	2:00 PM	Х		8 h	sole flues plugged plugged sole flues, floor drops,	adjusted uptakes and door holes contacted CCR, adjusted sole flues,
7/2/2018	A	57	5:35 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
7/2/2010		40	F 26 ANA			47	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/2/2018	Α	49	5:36 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/2/2018	В	64	5:40AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,,,,,,,,,,	1 7 7 1	0.1	5.1.5			- 25 (())	and / or low / loss of draft	uptakes, door dampers and / or draft
7/2/2018	В	32	5:41 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
			0.10			THE RESERVE OF	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/2/2018	В	29	5:41AM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
7 /2 /2010		22	F 44 454	, .		45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/2/2018	В	22	5:41 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/2/2018	В	21	5:41AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7,2,2020			314271111	<u> </u>	-	> 15 mm	and / or low / loss of draft	uptakes, door dampers and / or draft
7/2/2018	В	12	5:42 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						Formal Contracts of the	and / or low / loss of draft sole flues plugged - blocks,	uptakes, door dampers and / or draft
7/2/2018	В	22	6:00 AM		X	8 h	door holes	adjusted uptakes
7 /2 /2010	i ,	-	C-01 AN	İ	i , i	0.1	sole flues plugged - blocks,	-4:
7/2/2018	В	64	6:01 AM		×	8 h	door holes	adjusted uptakes
7/3/2018	A	60	1:27 PM	x	-	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,5,2020		- 50		<u> </u>		- 25 11111	and / or low / loss of draft	uptakes, door dampers and / or draf
7/3/2018	Α	42	1:28 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf- contacted CCR, adjusted sole flues,
7/3/2018	Α	53	1:28 PM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draf
7 /3 /3040	-	CF	1,22.014	T.		- 4F 1	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/3/2018	В	65	1:32 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
7/3/2018	В	41	1:33 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
.,-,-,-		-	2.33 / 14/	_^		- 23	and / or low / loss of draft	uptakes, door dampers and / or draf
7/3/2018	В	40	1:33 PM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draf
7/3/2018	В	37	1:33 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
- In Icass							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/3/2018	В	19	1:34 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/4/2010		56	5.1 E AAA	V		>1E min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/4/2018	A	56	5:15 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf

7/4/2018	Α	63	5:15 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/4/2018	Α	64	5:15 AM	х	H A	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
17.472020							and / or low / loss of draft	uptakes, door dampers and / or dra
7/4/2018	Ā	66	5:15 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/4/2018	Α	50	5:16 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
7/4/2018	В	31	5:20 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue:
7/4/2018	В	18	5:21 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
7/4/2018	С	31	5:42AM	х		28 min	Potential blockage in C2 HRSG and/or stack	Adjusted sole flues
7/4/2018	В	31	6:00AM		Х	8 h	sole flues plugged	adjusted uptakes and door dampe
7/4/2018	В	18	6:00AM		Х	8 h	sole flues plugged	adjusted uptakes and door dampe
7/4/2018	Α	56	6:02 AM		Х	8 h	sole flues plugged	adjusted uptakes and door dampe
7/4/2018	Α	64	6:03 AM		х	8 h	sole flues plugged	adjusted uptakes and door dampe
7/5/2018	В	6	12:16 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
			12:17 044				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
7/5/2018	В	20	12:17 PM		X	8 h	and / or low / loss of draft	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
7/5/2018	В	21	12:17 PM	7/4	Х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or dr
7/5/2018	В	32	12:20 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr
3 /P /00 5	- 31		42.27.214		,		plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
7/5/2018	В	58	12:27 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
7/5/2018	В	63	12:27 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr.
7/5/2018	Α	46	12:38 PM	TH	x	8 h	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
-							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr contacted CCR, adjusted sole flue
7/5/2018	Α	49	12:38 PM		х	8 h	and / or low / loss of draft	uptakes, door dampers and / or dr
7/5/2018	Α	50	12:38 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr
7/5/2018	A	53	12:38 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
JUL 10							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
7/5/2018	Α	57	12:39 PM		Х	8 h	and / or low / loss of draft	uptakes, door dampers and / or dr
7/5/2018	Α	58	12:39 PM		х	8 h	plugged sale flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
7/5/2018	A	60	12:39 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
						> AE mi=	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr contacted CCR, adjusted sole flue
7/5/2018	Α	63	12:39 PM		х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr. contacted CCR, adjusted sole flue
7/5/2018	В	63	12:57 PM	X		8 h	and / or low / loss of draft	uptakes, door dampers and / or dr
7/5/2018	В	60	12:57 PM	х		8 h	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr
7/5/2018	В	58	12:57 PM	х	NIE E	8 h	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
.,0,2010		33		^	110	771	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr contacted CCR, adjusted sole flue
7/5/2018	В	32	12:58 PM	Х		8 h	and / or low / loss of draft	uptakes, door dampers and / or dr
7/5/2018	В	21	12:58 PM	Х		8 h	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr.
7/5/2018	В	6	12:59 PM	х		8 h	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
177	is Hi						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr contacted CCR, adjusted sole flue
7/6/2018	Α	49	12:40 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dr
7/6/2018	Α	55	12:40 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
7/6/2018	В	64	12:43 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
			N. A. T.				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
7/6/2018	В	41	12:44 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dr
7/6/2018	В	40	12:44 PM	X		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr
7/6/2018	В	36	12:44 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
						The second second	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr. contacted CCR, adjusted sole flue
7/6/2018	В	28	12:45 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dr
7/7/2018	В	28	6:00AM		х	8 h	plugged sole flues	adjusted utakes and door holes

7/7/2018	В	29	6:00 AM	Х	X	8 h	plugged sole flues	adjusted utakes and door holes
7/7/2018	Α	49	6:02 AM		Х	8 h	plugged sole flues	adjusted utakes and door holes
7/7/2018	Α	55	6:02 AM		Х	8 h	plugged sole flues	adjusted utakes and door holes
7/7/2018	Α	60	6:02 AM	X		8 h	plugged sole flues	adjusted utakes and door holes
7/7/2018	Α	66	6:02 AM	X		8 h	plugged sole flues	adjusted utakes and door holes
7/8/2018	Α	56	6:20AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
	1.01					4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/8/2018	Α	57	6:20 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
7/8/2018	Α	58	6:20 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/8/2018	Α	63	6:20AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/8/2018	В	37	6:25AM	X	х	8 hr	and / or low / loss of draft sole flues plugged	uptakes, door dampers and / or draft adjusted uptakes
7/8/2018	В	33	6:25 AM	X	x	8 hr	sole flues plugged	adjusted uptakes
7/8/2018	В	31	6:25 AM	X	x	8 hr	sole flues plugged	adjusted uptakes
7/8/2018	В	25	6:25 AM	X	x	8 hr	sole flues plugged	adjusted uptakes
7/8/2018	В	24	6:25 AM	X	x	8 hr	sole flues plugged	adjusted uptakes
7/8/2018	В	21	6:25 AM	Х	X	8 hr	sole flues plugged	adjusted uptakes
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/8/2018	В	6	6:27 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/8/2018	В	6	6:55 AM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/8/2018	В	12	6:55 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
70,2020			0.55 ****				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/8/2018	В	20	6:56AM		х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
7/8/2018	В	22	6:56AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/9/2019		F.C	7/10444		V	AF min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/8/2018	Α	56	7:10AM		Х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
7/8/2018	Α	57	7:10AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/8/2018	Α	58	7:10AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
- (- (740 444		У	AF	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/8/2018	Α	59	7:10 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/8/2018	Α	65	7:10 AM	- 1	х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/9/2018	Α	64	6:15 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/0/2018	В	64	6:20AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/9/2018	В	04	0.20AIVI	^		> 13 11111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/9/2018	В	58	6:20AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/9/2018	В	41	6:21 AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/9/2018	В	38	6:21 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
//3/2018	В .	36	0.21 AIVI	_^		> 12 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/9/2018	В	35	6:21AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/9/2018	В	32	6:21 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	IU.	Taranta (-		The state of the state of	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/9/2018	В	12	6:22 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/10/2018	Α	57	5:58 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/10/2018	Α	59	5:58 AM	х	27740	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	70.00	-	5.55				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/10/2018	Α	66	5:58 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/10/2018	В	65	6:06AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/10/2018	В	59	6:06AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/10/2018	В	40	6:07 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/10/2018	В	36	6:07 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/10/2018	В	28	6:07 AM	х	FIFE G	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/10/2018	В	23	6:07 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft

7/10/2018	В	20	6:08 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
7/10/2018	В	26	10:00 PM	х	х	8 hr	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged soleflues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
7/10/2018	В	30	10:00 PM	X	х	8 hr	and / or low / loss of draft	uptakes, door dampers and / or draf
7/10/2018	В	39	10:00 PM	Х	х	8 hr	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
7/10/2018	В	43	10:01 PM	х		8 hr	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/11/2018	A	60	12:14 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
ROSE TO SE	^	00					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/11/2018	A	63	12:14 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
7/11/2018	Α	49	12:15 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
7/11/2018	Α	50	12:15 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
7/11/2018	A	55	12:15 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				1000		The state of the state of	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
7/11/2018	В	63	12:18 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
7/11/2018	В	60	12:18 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draf
7/11/2018	В	35	12:19 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
7/11/2018	В	29	12:19 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						U = 10 = 10	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/11/2018	D	3	12:22 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or drain
7/11/2018	A	57	10:01 PM		X	8 hr	sole flues plugged plugged sole flues, floor drops,	adjusted uptakes contacted CCR, adjusted sole flues,
7/12/2018	В	6	12:59 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
7/12/2018	В	28	1:01 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/12/2018	В	29	1:01 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or drai
7/12/2018	В	32	1:01 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		30	1:01 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/12/2018	В	38	1.01 FIVI			> 43 IIIIII	and / nr low / loss of draft plugged sole flues, floor drops,	uptakes, dnnr dampers and / or draft contacted CCR, adjusted sole flues,
7/12/2018	В	40	1:09 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draf
7/12/2018	В	62	1:10 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or drai
7/12/2018	В	63	1:10 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/12/2019	^	60	1:16 PM		V	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or drait contacted CCR, adjusted sole flues
7/12/2018	Α	60	1:16 PIVI		Х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/12/2018	Α	63	1:16 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
7/12/2018	A	64	1:16 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/12/2018	A	49	1:17 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
7/12/2018	Α.	EG	1,12 004	į Ŧ	v	> AE min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or drait contacted CCR, adjusted sole flues,
7/12/2018	Α	56	1:17 PM		Х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or drag contacted CCR, adjusted sole flues
7/12/2018	Α	58	1:17 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
7/12/2018	A	62	1:35 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/12/2018	A	56	1:36 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
1,11		Ę0	1:36 PM			> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or drait contacted CCR, adjusted sole flues,
7/12/2018	A	58		Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draid contacted CCR, adjusted sole flues,
7/12/2018	В	62	1:39 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/12/2018	В	59	1:39 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
7/12/2018	В	58	1:39 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/49/25:3		40	1,400.4		CILO	The state of the state of	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/12/2018	В	40	1:40 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra

							1.1	1 1 1 CCD - 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7/12/2018	В	38	1:40 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/12/2019	В	22	1,40,004	х		> 1E min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/12/2018	В	32	1:40 PM	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/12/2018	В	19	10:00 PM	х	х	8 hr	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/12/2018	В	20	10:00 PM	Х	X	8 hr	and / or low / loss of draft	uptakes, door dampers and / or draft
7/12/2018	В	21	10:00 PM	х	x	8 hr	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7,12,2010			10.001101	^	, î	0111	and / or low / loss of draft	uptakes, door dampers and / or draft
7/12/2018	В	22	10:00 PM	х	х	8 hr	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/12/2018	В	41	10:01 PM	Х	х	8 hr	and / or low / loss of draft	uptakes, door dampers and / or draft
7/12/2018	Α	50	10:02 PM	1	x	8 hr	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/13/2018	Α	65	12:23 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/12/2010	Α	66	12:23 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/13/2018	^	00	12.23 PIVI			> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
7/13/2018	В	37	12:29 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						A Company of	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/13/2018	В	31	12:29 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
7/13/2018	В	6	12:30 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
7/13/2018 7/13/2018	A	66	10:00 PM 10:00 PM	Х	x	8 hr 8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
7/14/2018	A	58	5:48 AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
7/14/2018	Α	63	5:48AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
7/14/2018	В	65	5:52 AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
7/14/2018	В	64	5:52AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/14/2018	В	39	5:53AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
7/14/2018	В	35	5:53 AM	Х	i i	8 hr	sole flues plugged	adjusted uptakes and door holes
7/14/2018	В	27	5:53 AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
7/14/2018	В	22	5:54AM	X		8 hr	sole flues plugged	adjusted uptakes and door holes adjusted uptakes and door holes
7/14/2018 7/14/2018	В	16	5:54AM 5:54 AM	X		8 hr 8 hr	sole flues plugged sole flues plugged	adjusted uptakes and door notes
7/14/2018	В	31	10:00 PM		X	8 hr	sole flues plugged	adjusted uptakes and door holes
7/14/2018	В	64	10:00 PM		X	8 hr	sole flues plugged	adjusted uptakes and door holes
7/15/2018	Α	49	6:23 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	-			11			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/15/2018		i						
-, -5, -5-5	Α	50	6:23 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/15/2018	A	50 60	6:23 AM 6:23AM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/15/2018 7/15/2018	A B	60	6:23AM 6:29 AM	x		> 15 mln > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/15/2018	Α	60	6:23AM	х		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/15/2018 7/15/2018 7/15/2018	A B	60 38 29	6:23AM 6:29 AM 6:29 AM	x x		> 15 mln > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/15/2018 7/15/2018	A B B	60	6:23AM 6:29 AM	x		> 15 mln > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/15/2018 7/15/2018 7/15/2018	A B	60 38 29	6:23AM 6:29 AM 6:29 AM	x x		> 15 mln > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/15/2018 7/15/2018 7/15/2018 7/15/2018 7/15/2018	B B B	60 38 29 28 21	6:23AM 6:29 AM 6:29 AM 6:29 AM 6:29 AM	x x x		> 15 mln > 15 min > 15 min > 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
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-4-4-4-4		40			v		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
7/15/2018	В	40	7:17 AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
7/15/2018	Α	60	7:30AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/15/2018	Α	64	7:30AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/15/2018	Α	65	7:30 AM	Fill	х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/15/2018	Α	49	7:31 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/15/2018	A	50	7:31 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
7/15/2018	A	54	7:31 AM	E I E L	x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
A part of				х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
7/16/2018	A	55	5:40AM			THE R. P. LEWIS CO., LANSING, MICH.	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
7/16/2018	Α	56	5:40 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
7/16/2018	Α	57	5:40 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/16/2018	Α	66	5:40AM	х		> 15 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/16/2018	В	63	5:45AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/16/2018	В	62	5:45AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/16/2018	В	58	5:45 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
7/16/2018	В	41	5:46AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
		To a second					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
7/16/2018	В	40	5:46 AM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
7/16/2018	В	35	5:46AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
7/16/2018	В	32	5:46 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/17/2018	В	59	5:35 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/17/2018	В	23	5:36AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/17/2018	В	22	5:36AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
7/17/2018	В	20	5:36AM	х	garage.	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
7/17/2018	В	6	5:37 AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
7/17/2018	D	3	5:50AM	х		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
7/17/2018	Α	58	6:15 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
7/17/2018	Α	63	6:15 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
7/17/2018	В	23	2:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes
7/18/2018	В	6	12:30 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
7/18/2018	В	19	12:32 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/18/2018	В	20	12:32 PM		х	> 45 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
7/18/2018	В	31	12:33 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
7/18/2018	В	33	12:33 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
			E FOR				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
7/18/2018	В	35	12:33 PM		X	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
7/18/2018	В	40	12:40 PM	Fly	х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
7/18/2018	В	44	12:40 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/18/2018	A	55	12:50 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues

							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/18/2018	Α	56	12:50 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/18/2018	Α	59	12:50 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/20/2020		33	22.5011		^	7.43	and / or low / loss of draft	uptakes, door dampers and / or draft
7/18/2018	Α	63	12:51 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/18/2018	В	40	1:05 PM	X		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/18/2018	В	35	1:06 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/18/2018	В	31	1:06 PM	х	- 400	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/18/2018	D	25	1:11 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/18/2018	A	35 59	2:00 PM	X		8 hr	and / or low / loss of draft sole flues plugged	uptakes, door dampers and / or draft adjusted uptakes
7/18/2018	В	19	2:02 PM	Х	İ	8 hr	sole flues plugged	adjusted uptakes
7/18/2018	В	49	2:03 PM		X	8 hr	sole flues plugged	adjusted uptakes
7/19/2018	Α	64	12:44 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/19/2018	Α	65	12:44 PM	х		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues.
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/19/2018	Α	66	12:44 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/19/2018	Α	49	12:45 PM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/19/2018	Α	57	12:45 PM	х	-	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/19/2018	В	64	1:13 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
) 				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/19/2018	В	58	1:13 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/19/2018	В	38	1:14 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/19/2018	В	37	1:14 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/19/2018	В	32	1:14 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/10/2018	_	l (1	7.01 004	X		8 hr	and / or low / loss of draft	uptakes, door dampers and / or draft
7/19/2018	A	61	2:01 PM 2:01 PM	X	X	8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
7/19/2018	A	64	2:01 PM	^	X	8 hr	sole flues plugged	adjusted uptakes
			9	v			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/20/2018	В	65	2:22 AM	Х	1	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/20/2018	В	63	2:31 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/20/2018	В	62	2:40 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/20/2018	В	45	3:15 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/20/2018	В	40	3:30 AM	х	A Track	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7,20,2020			3.36741	- ^			and / or low / loss of draft	uptakes, door dampers and / or draft
7/20/2018	Α	60	12:41 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/20/2018	Α	62	12:41 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/20/2018	A	63	12:41 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10000						11-11-11	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/20/2018	Α	50	12:42 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/20/2018	Α	56	12:42 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft
7/20/2018	Α	58	12:42 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/20/2018	В	61	12:46 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/20/2018	В	60	12:46 PM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/20/2018	В	36	12:47 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/20/2018	В	39	12:47 PM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
				1			aliment and all films floor dages	contrated CCD adjusted cale flues
7/20/2018	В	24	12:48 PM	x	N .	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft

7/20/2010		22	42.40.014	V	11916		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/20/2018	В	22	12:48 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/20/2018	В	20	12:48 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/20/2018	Α	49	2:00 PM		X	8 hr	sole flues plugged	adjusted uptakes
7/20/2018	Α	50	2:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes
7/20/2018	Α	56	2:00 PM	DACK.	Х	8 hr	sole flues plugged	adjusted uptakes
7/20/2018	В	24	2:03 PM		Х	8 hr	sole flues plugged	adjusted uptakes
7/20/2018	В	37	2:03 PM		X	8 hr	sole flues plugged	adjusted uptakes
7/20/2018	В	38	2:03 PM		X	8 hr	sole flues plugged	adjusted uptakes
7/20/2018	В	60	2:04 PM		X	8 hr	sole flues plugged	adjusted uptakes
7/20/2018	В	64	2:05 PM		X	8 hr	sole flues plugged plugged sole flues, floor drops,	adjusted uptakes contacted CCR, adjusted sole flues,
7/21/2018	Α	55	5:38 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/21/2018	В	29	5:45 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
//21/2018	В	28	5:45 AM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
/21/2018	В	27	5:45AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
	- 0				1		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/21/2018	В	23	5:45AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
7/21/2018	В	19	5:46 AM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
/21/2010	D	28	2:00 PM		X	8 hr	and / or low / loss of draft	uptakes, door dampers and / or draft
7/21/2018	B	29	2:00 PM 2:00 PM		x	8 hr	sole flues plugged	adjusted uptakes, door holes adjusted uptakes, door holes
	В				^		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/22/2018	Α	57	7:51 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
122 /2010			7.54.444	.,		. 45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/22/2018	Α	66	7:51 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/22/2018	В	39	7:55AM	x		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
/22/2018	В	31	7:55 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/22/2018	В	21	7:55 AM	X		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/22/2018	В	20	7:55 AM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
			N				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/22/2018	В	6	7:56AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/22/2018	Α	55	8:10AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/22/2018	Α	59	8:10AM		x	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/22/2018	Α	60	8:10 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/22/2018	В	6	8:20AM		x	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,							and / or low / loss of draft	uptakes, door dampers and / or draft
7/22/2018	В	20	8:21 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft
7/22/2018	В	21	8:21 AM		X	> 45 mln	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/22/2010	_	21	0.21.444		,	> 4Fi	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
//22/2018	В	31	8:21AM		X	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
/23/2018	В	58	5:40 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/23/2018	В	44	5:41 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
//23/2018	В	40	5:41AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/23/2018	В	38	5:41AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/23/2018	В	35	5:41 AM	×		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/23/2018	В	33	5:41AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/23/2018	В	32	5:41AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/24/2018	Α	62	5:35 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
104 102				· ·			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/24/2018	Α	63	5:35 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft

7/24/2018	A	64	5:35 AM	×		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/24/2018	^	04	3:33 AIVI			> 12 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/24/2018	Α	65	5:35 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/24/2018	Α	49	5:36 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/24/2018	В	64	5:40 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
		-		v		4	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/24/2018	В	63	5:40 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/24/2018	В	62	5:40 AM	X		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/24/2018	В	41	5:41 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/24/2018	В	36	5:41 AM	х	1	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/24/2018	В	23	5:42 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/24/2018	В	19	5:42 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/25/2018	A	60	12:33 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/25/2018	A	66	12:33 PM	x		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/25/2018	Α	56	12:34 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/25/2018	Α	57	12:34 PM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/25/2018	Α	58	12:34 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/25/2018	В	59	12:37 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/25/2018	В	58	12:37 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/25/2018	В	21	12:39 PM	X		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/25/2018	В	20	12:39 PM	X		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
				^			and / or low / loss of draft	uptakes, door dampers and / or draft
7/26/2018 7/26/2018	В	12 28	12:20 AM 12:20 AM		X	8 hr 8 hr	sole flues plugged sole flues plugged	adjusted uptakes; door holes adjusted uptakes; door holes
7/26/2018	В	33	12:20 AM		X	8 hr	sole flues plugged	adjusted uptakes; door holes
7/26/2018	В	39	12:32 AM		х	8 hr	sole flues plugged	adjusted uptakes; door holes
7/26/2018	В	40	12:32 AM		х	8 hr	sole flues plugged	adjusted uptakes; door holes
7/26/2018	В	62	12:32 AM		Х	8 hr	sole flues plugged	adjusted uptakes; door holes
7/26/2018	Α	57	12:45 AM		Х	8 hr	sole flues plugged	adjusted uptakes; door holes
7/26/2018	Α	65	12:45 AM		Х	8 hr	sole flues plugged	adjusted uptakes; door holes
7/26/2018	Α	60	12:49 AM	i	Х	8 hr	sole flues plugged	adjusted uptakes; door holes
7/26/2018	В	39	12:54AM	Х		8 hr	sole flues plugged	adjusted uptakes; door holes
7/26/2018	В	32	12:54 AM		х	8 hr	sole flues plugged	adjusted uptakes; door holes
7/20/2020		32	12.54 AW		^	0 111	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/26/2018	В	6	12:20 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/26/2018	В	32	12:22 PM		x	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/26/2018	A	56	12:45 PM		×	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/26/2018	A	61	12:46 PM			> 45 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
					X		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/26/2018	Α	64	12:46 PM		X	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/26/2018	В	32	12:54 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/26/2018	В	6	12:55 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/26/2018	D	3	1:03 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/26/2018	В	38	3:37 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/26/2018	В	63	10:00 PM		х	8 hr	sole flues plugged	adjusted uptakes; door holes
7/26/2018	Α	62	10:01 PM	Х		8 hr	sole flues plugged	adjusted uptakes; door holes
7/27/2018	С	32	1:06 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and for draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,

							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/27/2018	Α	63	1:23 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/27/2018	В	20	1:55 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
//2//2018	В	20	1:33 PW	^		> 13 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/27/2018	В	28	1:56 PM	X		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					1300		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/27/2018	В	31	1:56 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/27/2018	В	38	1:56 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
//2//2018	В	36	1:36 PIVI	^		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
7/27/2018	В	40	1:56 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/27/2018	В	64	1:58 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/28/2018	Α	57	5:45AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7,20,2020		3,	3.4371111	, A		7 13	and / or low / loss of draft	uptakes, door dampers and / or draft
7/28/2018	A	61	5:45AM	х	100 E	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
		-				45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/28/2018	Α	62	5:45AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/28/2018	Α	65	5:45 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7,20,200							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/28/2018	Α	66	5:45 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/20/2010		62	E.F0444	Ų		. 1C _ · ·	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/28/2018	В	63	5:50AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/28/2018	В	62	5:50 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/28/2018	В	58	5:50 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/28/2018	В	35	5:50 AM	Х		8 hr	sole flues plugged	adjusted uptakes; door holes
7/28/2018	В	33	5:50AM	Х		8 hr	sole flues plugged	adjusted uptakes; door holes
7/28/2018	В	29	5:50AM	Χ		8 hr	sole flues plugged	adjusted uptakes; door holes
7/29/2018	Α	56	7:00AM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/29/2018	Α	60	7:00AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/29/2018	Α	64	7:00 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7,20,2020							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/29/2018	В	65	7:05 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/29/2018	В	36	7:05AM	Х		8 hr	sole flues plugged	adjusted uptakes
7/29/2018	В	27	7:05AM	Х		8 hr	sole flues plugged	adjusted uptakes
7/29/2018	В	22	7:05 AM	X		8 hr	sole flues plugged	adjusted uptakes
7/29/2018 7/30/2018	B A	21 57	7:05AM 6:58 AM	Х	x	8 hr	sole flues plugged sole flues plugged	adjusted uptakes adjusted uptakes and door crowns
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/30/2018	Α	58	6:58 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/30/2018	Α	58	6:58AM		Х	8 hr	sole flues plugged	adjusted uptakes and door crowns
7/30/2018	A	60	6:58AM		X	8 hr	sole flues plugged	adjusted uptakes and door crowns
7/30/2018	Α	62	6:58 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
						45 .	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/30/2018	Α	63	6:58 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/30/2018	Α	63	6:58 AM		Х	8 hr	sole flues plugged	adjusted uptakes and door crowns
7/30/2018	Α	65	6:58AM		Х	8 hr	sole flues plugged	adjusted uptakes and door crowns
7/30/2018	В	38	7:05 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
7/20/2010	-	27	7.05.414	V		. 4F = 1	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
7/30/2018	В	37	7:05 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/30/2018	В	63	7:05AM		X	8 hr	sole flues plugged	adjusted uptakes and door crowns
7/30/2018	В	62	7:05AM		X	8 hr	sole flues plugged sole flues plugged	adjusted uptakes and door crowns adjusted uptakes and door crowns
7/30/2018 7/30/2018	B	38 37	7:05AM 7:05AM		X	8 hr	sole flues plugged sole flues plugged	adjusted uptakes and door crowns adjusted uptakes and door crowns
7/30/2018	В	21	7:05AM	7 1	X	8 hr	sole flues plugged	adjusted uptakes and door crowns
7/30/2018	В	19	7:10 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
./30/2018	٥	13	7.10 AIVI			/ HIIII CF /	and / or low / loss of draft	uptakes, door dampers and / or draft
7/30/2018	В	20	7:10 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
7/30/2018	В	22	7:10 AM		x	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
7/30/2018	В	28	7:11 684		v I	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	D	40	7:11 AM	100	X	2 43 IIIII	and / or low / loss of draft	uptakes, door dampers and / or draft

7/30/2018	В	31	7:11 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
7/30/2018	Α	64	7:19 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
-							and / or low / loss of draft	uptakes, door dampers and / or dra
7/30/2018	A B	56	10:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes and door crowns
7/30/2018		19	10:00 PM	X		8 hr	sole flues plugged	adjusted uptakes and door crowns
7/30/2018	В	28	10:00 PM	X		8 hr	sole flues plugged	adjusted uptakes and door crowns
7/30/2018	В	29	10:00 PM		X	8 hr	sole flues plugged	adjusted uptakes and door crowns
7/31/2018	Α	57	6:30 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues
1								uptakes, door dampers and / or drai
7/31/2018	Α	59	6:30 AM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or drai
7/31/2018	Α	66	6:30 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
7/31/2018	Α	62	10:00 PM		X	8 hr	sole flues plugged	adjusted uptakes
7/31/2018	В	6	10:00 PM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
8/1/2018	В	64	1:09 PM	X		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/1/2018	В	62	1:09 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/1/2018	В	58	1:09 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/1/2018	В	48	1:09 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/1/2018	В	43	1:10 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
1 3							and / or low / loss of draft	uptakes, door dampers and / or dra
8/1/2018	В	40	1:10 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
0.44.4004.0						III II. CARROLL III.	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/1/2018	В	39	1:10 PM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or dra
8/1/2018	В	31	1:10 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/1/2018	В	29	1:11 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/1/2018	В	27	1:11 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/1/2018	В	21	1:11 PM	х	1000	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/1/2018	В	20	1:11 PM	×		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
				^			and / or low / loss of draft	uptakes, door dampers and / or dra
8/1/2018	Α	59	10:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes
8/1/2018	Α	61	10:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes
8/1/2018	Α	66	10:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes
8/1/2018	В	43	10:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes
8/1/2018	В	64	10:00 PM		X	8 hr	sole flues plugged	adjusted uptakes
8/2/2018	В	19	12:22 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/2/2018	В	27	12:24 PM		х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/2/2018	В	28	12:24 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/2/2018	В	29	12:24 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/2/2018	В	31	12:24 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/2/2018	В	32	12:24 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/2/2018	В	40	12:36 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/2/2018	В	62	12:37 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/2/2018	В	63	12:37 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/2/2018	Α	56	12:43 PM		Х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/2/2018	Α	57	12:43 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
	Α	61	12:54 PM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue: uptakes, door dampers and / or dra
8/2/2018							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/2/2018 8/2/2018	Α	62	12:54 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
	A	62 56	12:54 PM	x		> 15 min		

8/2/2018	Α	58	12:55 PM	х	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or drail
8/2/2018	В	19	1:04 PM	x	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
8/2/2018	В	24	1:04 PM	x	> 15 min	plugged soleflues, floor drops,	contacted CCR, adjusted sole flues,
8/2/2018	В	25	1:04 PM	x	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/2/2018	В	27	1:05 PM	×	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf
8/2/2018	В	28	1:05 PM	X	> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
8/2/2018	В	32	1:05 PM	х	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
8/2/2018	В	33	1:05 PM	x	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/2/2018	В	35	1:06 PM	x	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/2/2018	В	38	1:06 PM	x	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/2/2018	В	63	1:07 PM	X	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/2/2018	В	65	1:07 PM	X	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/2/2018	В	59	1:07 PM	х	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/3/2018	Α	60	6:33 AM	x	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/3/2018	A	64	6:33 AM	x	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
	- I		70 1 1		THE RESIDENCE	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/3/2018	Α	65	6:33 AM	Х	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/3/2018	Α	66	6:33 AM	х	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/3/2018	В	16	6:57 AM	x	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/3/2018	В	36	6:59 AM	х	> 15 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/3/2018	В	58	7:00 AM	x	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/4/2018	A	59	5:30 AM	х	> 15 min	plugged soleflues, floor drops,	contacted CCR, adjusted sole flues
		-		J. T. J.		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/4/2018	В	40	5:36AM	X	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/4/2018	В	39	5:36 AM	х	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/4/2018	В	33	5:36AM	x	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/4/2018	В	29	5:36AM	х	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/5/2018	В	6	5:23AM	x	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/5/2018	A	57	5:40AM	x	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
110						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/5/2018	Α	62	5:40AM	X	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/5/2018	A	65	5:40AM	х	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/5/2018	В	64	5:45 AM	x	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/5/2018	В	62	5:45 AM	х	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/5/2018	В	37	5:46 AM	x	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/5/2018	В	27	5:46 AM	Х	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/5/2018	В	25	5:46AM	х	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/5/2018	В	21	5:46AM	x	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/5/2018	В	19	5:46AM	x	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues

8/5/2018	В	6	7:10 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/5/2018	В	62	7:14AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/5/2018	В	64	7:14 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
0/3/2010		04	7.14 AIVI		^	, 43 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
8/5/2018	A	58	7:20AM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
- 10 10							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
8/6/2018	Α	56	5:35 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/6/2018	Α	58	5:35 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged soleflues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/6/2018	Α	63	5:35 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/6/2018	A	66	5:35 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
6/0/2016		- 00	3.33 AIVI	^		, 13 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
8/6/2018	В	38	5:40AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
8/6/2018	В	31	5:40 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/6/2018	В	28	5:40AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				-15-1			and / or low / loss of draft	uptakes, door dampers and / or draft
8/6/2018	В	22	5:41 AM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/6/2018	В	21	2:00 PM		х	8 hr	sole flues plugged	adjusted uptakes
8/6/2018	В	38	2:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes
8/6/2018	Α	66	2:01 PM		Х	8 hr	sole flues plugged	adjusted uptakes
8/7/2018	В	12	12:35 PM		х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
			1				and / or low / loss of draft	uptakes, door dampers and / or draft
8/7/2018	В	20	12:36 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
	100	8 15					plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
8/7/2018	В	28	12:38 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/7/2018	В	31	12:38 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/7/2018	В	32	12:38 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
0/7/2010	ь.	22	12.20 DN4		V	> AE min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
8/7/2018	В	33	12:38 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/7/2018	В	35	12:38 PM		х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/7/2018	В	40	12:39 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/7/2018	В	43	12:48 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
0///2010		73	12,40 F W		^	> 43 mm	and / or low / loss of draft	uptakes, door dampers and / or draft
8/7/2018	Α	61	1:02 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
8/7/2018	Α	64	1:02 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/8/2018	В	29	2:00 PM		Х	8 hr	sole flues blocked	adjusted uptakes and door dampers
8/8/2018	В	58	2:00 PM	Х		8 hr	sole flues blocked	adjusted uptakes and door dampers
8/8/2018	В	60	4:00 PM	Х		8 hr	sole flues blocked	adjusted uptakes and door dampers
8/8/2018	В	63	4:00 PM	Х		8 hr	sole flues blocked	adjusted uptakes and door dampers
8/8/2018	В	65	4:00 PM	Х		8 hr	sole flues blocked	adjusted uptakes and door dampers
8/8/2018	В	40	4:41 PM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
0.40.4004.0	_	- 22	4 47 554	V		. 15 min	plugged soleflues, floor drops,	contacted CCR, adjusted sole flues,
8/8/2018	D	33	4:47 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/8/2018	D	3	5;00 PM	х		1 hr 58 mln	brick work around flue under	adjusted sole flues, draft, and door
8/8/2018	A	58	5:00 PM	х		8 hr	repalr sole flues blocked	dampers adjusted uptakes and door dampers
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
8/9/2018	Α	59	6:20 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/9/2018	Α	66	6:20AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	1 1501						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/9/2018	В	38	6:30AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
0/0/2010	n	35	6,24 444	v		≥ 1E ==:=	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
8/9/2018	В	35	6:31 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/9/2018	В	32	6:31 AM	х	n I h	> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
The second second							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,

8/9/2018	В	24	6:32 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
8/9/2018	В	24	6:32 AIVI	Α.		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/9/2018	В	21	6:32 AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/9/2018	В	20	6:32 AM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/9/2018	В	21	2:00 PM		Х	8 hrs	sole flues blocked	adjusted uptakes and door dampers
8/9/2018	В	37	2:00 PM		X	8 hrs	sole flues blocked	adjusted uptakes and door dampers
8/9/2018	Α	66	2:02 PM	1	х	8 hrs	sole flues blocked	adjusted uptakes and door dampers
8/9/2018	В	59	2:56 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/9/2018	В	58	3:15 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/9/2018	В	43	3:35 PM	х	1	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/9/2018	В	42	3:44 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/9/2018	В	28	4:12 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/9/2018	В	12	4:22 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/10/2018	В	40	1:26 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/11/2018	В	31	6:12 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
0/11/2018	D	31	U.12 AIVI	^		× 13 IIIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
8/11/2018	В	21	6:12AM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/11/2018	В	6	6:13 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/12/2018	В	6	6:00AM		X	8 hr	sole flues blocked	adjusted uptakes & door holes
8/12/2018	В	20	6:00 AM	Х	X	8 hr	sole flues blocked	adjusted uptakes
8/12/2018	В	31	6:00 AM		X	8 hr	sole flues blocked	adjusted uptakes
8/12/2018	В	36	6:00AM	Х		8 hr	sole flues blocked	adjusted uptakes
8/12/2018	Α	60	6:01AM	X	x	8 hr	oven empty, gas shut off (cool down for rebuild)	adjust draft
8/12/2018	В	64	6:01AM	Х		8 hr	sole flues blocked	adjusted uptakes
8/13/2018	В	65	5:51AM	Х		> 1 5 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/13/2018	В	63	5:51 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/13/2018	R	60	5:51AM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/13/2018	В	40	5:52 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/13/2018	В	38	5:52 AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/13/2018	В	32	5:52 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/13/2018	В	38	6:00AM	2 11	Х	8 hr	sole flues plugged	adjusted uptakes & door holes
8/13/2018	В	64	6:01AM		Х	8 hr	sole flues plugged	adjusted uptakes & door holes
8/14/2018	В	62	5:45 AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/14/2018	В	59	5:45AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/14/2018	В	58	5:45 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/14/2018	В	39	5:46 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/14/2018	В	35	5:46 AM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/14/2018	В	27	5:46AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues,
8/14/2018	В	19	5:48 AM	х		> 15 min	plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/14/2018	В	39	6:01AM		X	g hr	and / or low / loss of draft sole flues plugged	uptakes, door dampers and / or draft
8/14/2018	В	60	6:01AM		X	8 hr 8 hr	soleflues plugged	adjusted uptakes, door holes adjusted uptakes, door holes
8/15/2018	В	25	2:39 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/16/2018	В	31	6:00 AM	х	х	8 hr	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		4.5					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/16/2018	В	12	12:56 PM	1 3	X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft

8/16/2018	В	39	12:57 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
8/16/2018	В	32	1:28 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
8/17/2018	В	6	6:00 AM	Х	х	8 hr	sole flues plugged	adjusted uptakes
8/17/2018	В	19	6:00 AM	X	^	8 hr	sole flues plugged	adjusted uptakes
8/17/2018	В	20	6:00AM	X		8 hr	sole flues plugged	adjusted uptakes
8/17/2018	В	22	6:00 AM	X		8 hr	sole flues plugged	adjusted uptakes
8/17/2018	В	28	6:00AM	X	X	8 hr	sole flues plugged	adjusted uptakes
8/17/2018	В	32	6:01 AM	X	^	8 hr	sole flues plugged	adjusted uptakes
8/17/2018	В	36	6:01AM	Х		8 hr	sole flues plugged	adjusted uptakes
8/17/2018	В	38	6:01 AM	X	х	8 hr	sole flues plugged	adjusted uptakes
8/17/2018	В	40	6:01 AM	Х	X	8 hr	sole flues plugged	adjusted uptakes
8/17/2018	В	60	6:02AM	X	^	8 hr	sole flues plugged	adjusted uptakes
8/17/2018	В	64	6:02 AM	X		8 hr	sole flues plugged	adjusted uptakes
8/18/2018	В	65	6:51 AM	X		8 hr	sole flues plugged	adjusted uptakes
8/18/2018	В	59	6:51 AM	X		8 hr	sole flues plugged	adjusted uptakes
8/18/2018	В	25	6:52 AM	X		8 hr	sole flues plugged	adjusted uptakes
8/18/2018	В	20	6:53 AM	X		8 hr	sole flues plugged	adjusted uptakes
6/16/2016	В	20	0.33 AIVI			0 111	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/19/2018	В	37	6:16 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/19/2018	В	33	6:16 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
							and / or low / loss of draft	uptakes, door dampers and / or dra
8/19/2018	В	23	6:16 AM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
0/10/2010	D	22	6.16.004		V	0 b-	and / or low / loss of draft	uptakes, door dampers and / or dra
8/19/2018	В	33	6:16 AM		Х	8 hr	sole flues plugged	adjusted uptakes
8/19/2018	В	12	6:50AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
0/10/2010	0	20	6.50444		V	0.1-	and / or low / loss of draft	uptakes, door dampers and / or dra
8/19/2018	В	20 32	6:50AM		X	8 hr	sole flues plugged	adjusted uptakes
8/19/2018	В	32	6:50 AM		^	8 hr	sole flues plugged	adjusted uptakes
8/19/2018	В	27	6:51 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/19/2018	В	62	6:55AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
							and / or low / loss of draft	uptakes, door dampers and / or dra
8/19/2018	В	63	6:55 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
9/10/2019	D .	11	10:00 004	-	V	0 h-	and / or low / loss of draft	uptakes, door dampers and / or dra
8/19/2018	В	11	10:00 PM		Х	8 hr	low draft plugged sole flues, floor drops,	adjusted uptakes contacted CCR, adjusted sole flues
8/20/2018	В	32	6:11 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or dra
8/20/2018	В	21	10:00 PM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
8/20/2018	В	22	10:00 PM	Х		8 hr	sole flues plugged	adjusted uptakes
8/21/2018	В	63	7:03 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/21/2018	В	40	7:04 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or dra
8/21/2018	В	31	7:04 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
0/24/2040		20	7.04444	v		. 4Fl.	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/21/2018	В	28	7:04AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and for dra
8/21/2018	В	27	7:04 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/21/2018	В	25	7:04AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
-							and / or low / loss of draft	uptakes, door dampers and / or dra
8/21/2018	В	20	7:04AM	Х	-	8 hr	sole flues blocked	adjusted uptakes and door holes
8/21/2018	В	19	7:05 AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/21/2018	В	31	10:00 PM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
8/22/2018	В	36	1:08 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
9/22/2019	В	Ee	1:09 PM	V		> 1E m:-	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/22/2018	0	58	1.03 PW	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/22/2018	В	62	1:09 PM	X		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
8/22/2018	В	13	10:00 PM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
8/22/2018	В	25	10:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes
8/22/2018	В	28	10:00 PM		х	8 hr	sole flues plugged	adjusted uptakes
8/22/2018	В	29	10:00 PM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
8/22/2018	В	64	10:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes
8/23/2018	В	6	1:28 PM		х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/23/2018	-					> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue:
	В	38	1:30 PM		X			, , ,

8/23/2018	В	64	1:39 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
			(A	- 1		A	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/23/2018	В	6	1:58 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
		- 4				- The State of the	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/23/2018	В	38	1:59 PM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or dra
0/22/2010	п	30	1.50 004	V		> 1E min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/23/2018	В	39	1:59 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/23/2018	В	59	2:00 PM	х	-	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/23/2018	_ B	33	2.00 FIVI	^		> 13 (((()))	and / or low / loss of draft	uptakes, door dampers and / or dra
8/23/2018	В	64	2:00 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
0,25,2020	-		2:00 1 101			- 25	and / or low / loss of draft	uptakes, door dampers and / or dra
8/23/2018	В	41	3:04 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
	_		10.00.014		и 1		and / or low / loss of draft	uptakes, door dampers and / or dra
8/23/2018	В	22	10:00 PM	X	X	8 hr	sole flues blocked	adjusted uptakes and door holes
8/23/2018	В	23	10:00 PM 6:50 AM	X	X	8 hr 8 hr	sole flues blocked	adjusted uptakes and door holes
8/24/2018 8/24/2018	В	32	6:50 AM	X		8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
8/24/2018	В	33	6:50 AM	x		8 hr	sole flues plugged sole flues plugged	adjusted uptakes
8/24/2018	В	33	0.30 AIVI	^		0 111	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
8/24/2018	В	35	6:52AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
		40		.,			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/24/2018	В	40	6:52 AM	Х	, 1	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
0/24/2010		42	C-F2 AA4	V		1. 40 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/24/2018	В	42	6:52 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/25/2018	В	65	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
8/25/2018	В	31	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
8/25/2018	В	29	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
8/25/2018	В	27	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
8/25/2018	В	25	6:00AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
8/25/2018	В	24	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
8/25/2018	В	20	6:00AM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
8/26/2018	В	58	6:14AM	х	MILE	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
	200				100	THE WHAT	and / or low / loss of draft	uptakes, door dampers and / or dra
8/26/2018	В	44	6:14AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
	-		(E)		-		and / or low / loss of draft	uptakes, door dampers and / or dra
8/26/2018	В	43	6:14AM	Х	120	> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
8/26/2018	В	37	6:15 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/26/2018	В	35	6:15 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
				7			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
8/26/2018	В	23	6:15 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
	. 1			.,	K		plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
8/26/2018	В	22	6:15 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/26/2018	В	20	CIE ANA	V		s 1E min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
8/26/2018	В	20	6:15 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
8/26/2018	В	12	6:16 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
8/20/2018	В	12	0.10 AIVI	^	- 4	> 13 (((()))	and / or low / loss of draft	uptakes, door dampers and / or dra
8/26/2018	В	12	6:58 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
0,20,2010			0.50 AIVI		^	7 43 111111	and / or low / loss of draft	uptakes, door dampers and / or dra
8/26/2018	В	20	6:59AM	LE-II	x	> 45 min	plugged so leflues, floor drops,	contacted CCR, adjusted sole flue
0,20,2020			0.5571101			7 43 111111	and / or low / loss of draft	uptakes, door dampers and / or dra
8/26/2018	В	22	6:59 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
-,,							and / or low / loss of draft	uptakes, door dampers and / or dra
8/26/2018	В	28	6:59AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
11	_						and / or low / loss of draft	uptakes, door dampers and / or dra
8/26/2018	В	29	6:59 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
	В	23	2:00 PM		X	8 hr	and / or low / loss of draft sole flues plugged	uptakes, door dampers and / or dra
8/26/2018	U	43	_		1	0 111	plugged sole flues, floor drops,	adjusted uptakes, door dampers contacted CCR, adjusted sole flue:
8/27/2018	В	12	1:41 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
				F 5			plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
8/27/2018	В	25	1:42 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
a tan tan in	_		4.40.511				plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
8/27/2018	В	32	1:42 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
0/07/0000	_	40	4 42 514				plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
8/27/2018	В	40	1:43 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
9/27/2015	В	42	1,42 014	V		≥ 1F!-	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
8/27/2018	В	42	1:43 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
	В	59	1:44 PM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
8/27/2018								

8/27/2018	В	62	1:44 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/27/2018	В	63	1:44 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/27/2018	В	13	2:00 PM	х		8 hr	and / or low / loss of draft sole flues blocked	adjusted door holes, uptakes
8/27/2018	В	31	2:00 PM	^	X	8 hr	sole flues blocked	adjusted door holes, uptakes
8/27/2018	В	33	2:00 PM	х	^	8 hr	sole flues blocked	adjusted door holes, uptakes
8/27/2018	В	41	2:00 PM	X	X	8 hr	sole flues blocked	adjusted door holes, uptakes
8/27/2018	В	54	2:02 PM	X	^	8 hr	sole flues blocked	adjusted door holes, uptakes
8/27/2018	В	63	2:03 PM	^	х	8 hr	sole flues blocked	adjusted door holes, uptakes
0/2//2020		- 03			^	0111	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
8/28/2018	В	6	12:49 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/28/2018	В	27	12:51 PM		x	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/28/2018	В	28	12:51 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/28/2018	В	32	12:51 PM	4	х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
8/28/2018	В	33	12:51 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/28/2018	В	36	12:52 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/28/2018	В	38	12:52 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
0.400.400.40			4.24.004	· ·		. 45 mln	and / or low / loss of draft plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
8/28/2018	В	6	1:24 PM	Х		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/28/2018	В	36	1:25 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/28/2018	В	38	1:25 PM	X		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/28/2018	В	7	1:32 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
8/29/2018	В	64	4:49 PM	X		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
8/29/2018	В	58	4:49 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
8/30/2018	В	40	7:15 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	1	1					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/30/2018	В	31	7:15 AM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
8/30/2018	В	22	7:16 AM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draf
8/30/2018	В	19	7:16 AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
8/30/2018	В	12	7:17 AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
8/30/2018	Α	2	6:45 PM	Х		45 min	Door not seated correctly	Adjusted C/S sole flue and adjusted do
9/2/2018	В	23	4:53 AM	X	1	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		100			11 11 11 11	-	and / or low / loss of draft	uptakes, door dampers and / or draf
9/4/2018	В	6	6:00 AM	X	X	8 h	sole flues plugged	adjusted uptakes
9/4/2018	В	28	6:00 AM	Х		8 h	sole flues plugged	adjusted uptakes
9/4/2018	В	29	6:00 AM	X		8 h	sole flues plugged	adjusted uptakes
9/4/2018	В	31	6:00 AM	X	X	B h	sole flues plugged	adjusted uptakes
9/4/2018	В	32.	6:00 AM	X		B h	sole flues plugged	adjusted uptakes
9/4/2018	В	33	6:01AM	X		B h	sole flues plugged	adjusted uptakes
9/4/2018	В	37	6:01 AM	Х		8 h	sole flues plugged	adjusted uptakes
9/4/2018	В	38	6:01 AM	Х	Х	8 h	sole flues plugged	adjusted uptakes
9/4/2018	В	59	6:01 AM	Х		8 h	sole flues plugged	adjusted uptakes
9/5/2018	В	64	12:52 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
9/5/2018	В	63	12:52 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
9/5/2018	В	48	12:53 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/5/2018	В	42	12:53 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/5/2018	В	40	12:53 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
9/5/2018	В	36	12:53 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
9/5/2019	В	20	12:54 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/5/2018	D	29	12.34 PIVI	^		> 13 IIIII	and / or low / loss of draft	uptakes, door dampers and / or draf

9/5/2018	В	25	12:54 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/5/2018	В	16	12:55 PM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
9/5/2018	В	12	12:55 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/6/2018	В	7	12:55 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
						45 .	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/6/2018	В	12	12:55 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/6/2018	В	22	1:00 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/6/2018	В	27	1:00 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/6/2018	В	28	1:00 PM	land (x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/6/2018	В	29	1:00 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/6/2018	В	35	1:01 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/6/2018	В	40	1:01 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/6/2018	В	44	1:03 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/6/2018	В	62	1:04 PM		х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
3,0,2028		02	1.041101				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/6/2018	В	22	1:30 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/6/2018	В	43	1:31 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/6/2018	В	65	1:32 PM	х	TATE	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
47 49040	_		722.444			. 45	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/7/2018	D	3	7:32 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/7/2018	D	36	7:32 AM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/7/2018	В	6	7:39 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/7/2018	В	32	7:40 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/7/2018	В	38	7:40 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
200			EVILUA	0.11.0			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/8/2018	В	19	4:02 AM	Х		8 h	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/8/2018	В	63	7:20AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/8/2018	В	6	10:00 PM		Х	8 h	sole flues plugged	adjusted uptakes, door hole
9/8/2018	В	23	10:00 PM		X	8 h	sole flues plugged	adjusted uptakes, door hole
9/8/2018	В	39	10:00 PM		Х	8 h	sole flues plugged	adjusted uptakes, door hole
9/8/2018	В	59	10:00 PM		X	8 h	sole flues plugged plugged sole flues, floor drops,	adjusted uptakes, door hole contacted CCR, adjusted sole flues,
9/9/2018	В	64	7:00AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/9/2018	В	31	7:00 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/9/2018	В	64	7:00 AM	11	Х	8 h	sole flues plugged	adjusted sole flues
9/9/2018	В	31	7:00AM		Х	8 h	sole flues plugged	adjusted sole flues
9/9/2018	В	28	7:00 AM	Х	Х	8 h	sole flues plugged plugged sole flues, floor drops,	adjusted sole flues
9/9/2018	В	12	7:40AM		х	> 45 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/9/2018	В	23	7:41 AM		x	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/9/2018	В	24	7:41 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/9/2018	В	25	7:41 AM		х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/9/2018	В	27	7:41 AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/9/2018	В	29	7:41 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/9/2018	В	32	7:41 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
0/0/2005			20000	(American)	V	1000000000	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/9/2018	В	35	7:41 AM	17	X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft

9/9/2018	В	40	7:43AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/9/2018	В	42	7:43 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/9/2018	В	43	7:43AM		х	> 45 min	plugged sole flues, floor drops, and / or low/ loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/9/2018	В	44	7:43 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/9/2018	В	63	7:44 AM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
					^		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/10/2018	В	59	2:22 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/10/2018	В	41	2:23 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/10/2018	В	38	2:23 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/10/2018	В	37	2:23 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/10/2018	В	36	2:23 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/10/2018	В	32	2:23 PM	х		> 15 min	plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
	1					The state of the s	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/10/2018	В	29	2:24 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/10/2018	В	23	2:24 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/10/2018	В	22	2:24 PM	х	0,0	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
5/10/2010		22	2.247101	^		> 13 111111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/10/2018	В	21	2:24 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/10/2018	В	20	2:24 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
140 12040		-	2.25.004	.,		. 45	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/10/2018	В	7	2:25 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/10/2018	В	11	10:00 PM		х	8 hr	low draft, HRSG offline, Bailey power supply issues	adjust uptakes and door holes
9/10/2018	В	20	10:00 PM		X	8 hr	sole flues blocked	adjust uptakes and door holes
9/10/2018	B	30	10:00 PM		X	8 hr 8 hr	sole flues blocked	adjust uptakes and door holes adjust uptakes and door holes
	В	1	April 197		100		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/11/2018	В	6	12:58 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/11/2018	В	12	12:58 PM		х	> 45 min	plugged sole flues, floor drops, and / or low/ loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/11/2018	В	19	1:01 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/11/2018	В	22	1:01 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/11/2018	В	25	1:01 PM		x	> 45 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
,,,,,,,,,,,			1.027101			7.43 77.111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/11/2018	В	32	1:02 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/11/2018	В	33	1:02 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/11/2018	В	35	1:03 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/11/2018	В	38	1:03 PM	-	х	> 45 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/11/2018	В	40	1:03 PM		Х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/11/2018	В	41	1:03 PM		Х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
9/11/2018	В	62	1:05 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/11/2018	D	36	1:14 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/11/2018	В	6	1:37 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/11/2018	В	19	1:37 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/11/2018	В	40	1:39 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/12/201	В	60	10:00 PM		X	8 hr	sole flues plugged	adjust uptakes

	CE	7.01444	V		45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
В	65	7:UIAM	Α.		> 12 min	and / or low / loss of draft	uptakes, door dampers and / or draft
В	64	7:01 AM	х		> 15 min		contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1725					War and Art Alberta	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
В	32	7:02AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
В	28	7:02AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							uptakes, door dampers and / or draft
A	30	2:30 PM	x		> 15 min		Adjusted sole flues and increased draft.
						proper operation.	
В	19	10:57 AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
_		10.57.1					uptakes, door dampers and / or draft
В	21	10:57 AM	X		> 15 min		contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
	20	405044	.,		. 15	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
В	29	10:58 AM	Х		> 12 min	and / or low / loss of draft	uptakes, door dampers and / or draft
В	31	10:58 AM	X	No.	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	-11						uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
В	38	10:58 AM	Х		> 15 min		uptakes, door dampers and / or draft
	40	10.50 444	v		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
В	40	10:38 AIVI	^	100	>13111111	and / or low / loss of draft	uptakes, door dampers and / or draft
В	58	6:58 AM	Х		> 15 min		contacted CCR, adjusted sole flues,
			1112				uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
В	43	6:59AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
В	22	6-50 AM	v	İ	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
ь	33	I VIN EC.U	^		> 13	and / or low / loss of draft	uptakes, door dampers and / or draft
В	27	6:59 AM	X		> 15 min		contacted CCR, adjusted sole flues,
							uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
В	25	6:59 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
В	20	6:59AM	x	15.1	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				- L			uptakes, door dampers and / or draft
							adjust uptakes adjust uptakes
							adjust uptakes
В	43	2:00 PM		Х	8 hr	sole flues plugged	adjust uptakes
В	31	2:00 PM		Х	8 hr	sole flues plugged	adjust uptakes
В	42	6:10AM	X	Parel	> 15 min		contacted CCR, adjusted sole flues,
							uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
В	40	6:10AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
B	38	6:10AM	×		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	36	U.IUAIVI	^		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
В	37	6:10 AM	х		> 15 min		contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							contacted CCR, adjusted sole flues,
В	32	6:10AM	X		> 15 min		uptakes, door dampers and / or draft
В	28	6:11 AM	Y		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		I O'TT VIVI	^		- 13 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
				-		I have dead of the state of	
В	25	6:11 AM	x		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						and / or low / loss of draft	uptakes, door dampers and / or draft
ВВ	25 16	6:11 AM 6:11 AM	x		> 15 mln > 15 min		
В	16	6:11 AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
						and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
В	16	6:11 AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
B B	16 12 6	6:11 AM 6:11 AM 6:12 AM	x		> 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
В	16	6:11 AM 6:11 AM	x	x	> 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
B B B	16 12 6 6	6:11 AM 6:11 AM 6:12 AM	x		> 15 min > 15 min > 15 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
B B	16 12 6	6:11 AM 6:11 AM 6:12 AM 10:00 AM	x	x	> 15 min > 15 min > 15 min > 15 min > 45 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
B B B	16 12 6 6	6:11 AM 6:11 AM 6:12 AM 10:00 AM	x		> 15 min > 15 min > 15 min > 15 min > 45 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
B B B B B	16 12 6 6 7	6:11 AM 6:11 AM 6:12 AM 10:00 AM 10:00 AM	x	x	> 15 min > 15 min > 15 min > 15 min > 45 min > 45 min > 45 min > 45 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
B B B B	16 12 6 6 7	6:11 AM 6:11 AM 6:12 AM 10:00 AM	x	х	> 15 min > 15 min > 15 min > 15 min > 45 min > 45 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
B B B B B B	16 12 6 6 7 12 28	6:11 AM 6:11 AM 6:12 AM 10:00 AM 10:00 AM 10:00 AM	x	x x	> 15 min > 15 min > 15 min > 15 min > 45 min > 45 min > 45 min > 45 min > 45 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
B B B B B	16 12 6 6 7	6:11 AM 6:11 AM 6:12 AM 10:00 AM 10:00 AM	x	x	> 15 min > 15 min > 15 min > 15 min > 45 min > 45 min > 45 min > 45 min	and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
	B B B B B B B B B B B B B B B B B B B	B 64 B 32 B 28 A 30 B 19 B 21 B 29 B 31 B 38 B 40 B 58 B 43 B 33 B 27 B 25 B 20 B 24 B 33 B 31 B 42 B 40 B 38 B 31 B 43 B 31 B 43 B 31	B 64 7:01 AM B 32 7:02 AM B 28 7:02 AM A 30 2:30 PM B 19 10:57 AM B 21 10:57 AM B 29 10:58 AM B 31 10:58 AM B 38 10:58 AM B 40 10:58 AM B 58 6:58 AM B 43 6:59 AM B 27 6:59 AM B 27 6:59 AM B 27 6:59 AM B 20 6:59 AM B 22 2:00 PM B 27 2:00 PM B 33 2:00 PM B 33 2:00 PM B 43 2:00 PM B 43 2:00 PM B 43 2:00 PM B 43 2:00 PM B 31 2:00 PM B 31 2:00 PM B 31 2:00 PM B 33 2:00 PM B 33 2:00 PM B 34 3:00 PM B 43 3:00 PM B 43 3:00 PM B 43 3:00 PM B 43 3:00 PM B 43 3:00 PM B 31 2:00 PM B 31 2:00 PM B 31 2:00 PM B 33 2:00 PM B 33 3:00 PM B 33 3:00 PM B 34 3:00 PM B 37 6:10 AM B 38 6:10 AM B 38 6:10 AM B 37 6:10 AM B 37 6:10 AM	B 64 7:01 AM X B 32 7:02 AM X B 28 7:02 AM X A 30 2:30 PM X B 19 10:57 AM X B 21 10:57 AM X B 29 10:58 AM X B 31 10:58 AM X B 38 10:58 AM X B 38 6:59 AM X B 33 6:59 AM X B 27 6:59 AM X B 27 6:59 AM X B 20 6:59 AM X B 20 6:59 AM X B 24 2:00 PM X B 27 2:00 PM B 27 2:00 PM B 33 2:00 PM B 33 2:00 PM B 31 2:	B 64 7:01 AM X B 32 7:02 AM X B 28 7:02 AM X A 30 2:30 PM X B 19 10:57 AM X B 21 10:57 AM X B 29 10:58 AM X B 31 10:58 AM X B 31 10:58 AM X B 38 10:58 AM X B 40 10:58 AM X B 58 6:58 AM X B 43 6:59 AM X B 33 6:59 AM X B 27 6:59 AM X B 27 6:59 AM X B 20 6:59 AM X B 27 6:59 AM X B 20 6:59 AM X B 21 10:58 AM X B 22 6:59 AM X B 23 2:00 PM X B 33 2:00 PM X B 33 2:00 PM X B 33 2:00 PM X B 33 2:00 PM X B 31 2:00 PM X B 31 2:00 PM X B 31 2:00 PM X B 31 2:00 PM X B 33 2:00 PM X B 31 2:00 PM X B 31 2:00 PM X B 33 2:00 PM X B 33 2:00 PM X B 33 3	B 64 7:01 AM X > 15 min B 32 7:02 AM X > 15 min B 28 7:02 AM X > 15 min A 30 2:30 PM X > 15 min B 19 10:57 AM X > 15 min B 21 10:57 AM X > 15 min B 29 10:58 AM X > 15 min B 31 10:58 AM X > 15 min B 38 10:58 AM X > 15 min B 38 10:58 AM X > 15 min B 40 10:58 AM X X > 15 min <td> B</td>	B

9/17/2018	В	38	10:04 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/17/2018	В	40	10:04 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					5		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/17/2018	В	65	10:07 AM		X	> 45 mln	and / or low/ loss of draft	uptakes, door dampers and / or draft
9/17/2018	В	36	10:12 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/17/2018	В	60	10:19 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3/1//2016	ь	00	10.13 AIVI	^		> 13 ((()))	and / or low / loss of draft	uptakes, door dampers and / or draft
9/17/2018	В	63	10:41 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/18/2018	В	31	2:00 PM	Х	Х	8 hr	sole flues blocked	adjust uptakes - draft
9/18/2018	В	39	2:00 PM	V	X	8 hr	sole flues blocked	adjust uptakes - draft
9/18/2018	В	64	2:00 PM	Х	Х	8 hr	sole flues blocked plugged sole flues, floor drops,	adjust uptakes - draft contacted CCR, adjusted sole flues,
9/19/2018	В	19	3:47 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/19/2018	В	36	3:48 PM	х	2	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
0/10/2018	n		3.40 004	V		. 1E min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/19/2018	В	58	3:49 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/19/2018	В	63	3:49 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/20/2018	В	65	6:40AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2, 20, 2020			0				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/20/2018	В	40	6:40 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
9/20/2018	В	39	6:40 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2, 20, 2020			0.101	n n			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/20/2018	В	32	6:41 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
9/20/2018	В	29	6:41AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/20/2018	В	28	6:41 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
9/20/2018	В	25	6:41 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/20/2018	В	12	6:42 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
3,20,2020	100		0.42 /101	^		7 25 (1)	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/20/2018	В	12	7:35 AM		×	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/20/2018	В	28	7:36AM	114	х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues,
0/20/2018	_	20	7,25,444		v	» AF!-	plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/20/2018	В	29	7:36AM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/20/2018	В	32	7:36 AM		x	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
0/20/2019	В	- 22	7.26 AAA		V	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/20/2018	В	33	7:36 AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/20/2018	В	36	7:36AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/20/2018	В	40	7:38 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
5/20/2016	В	40	7.36 AIVI		^	/ 43 Milli	and / or low / loss of draft	uptakes, door dampers and / or draft
9/20/2018	В	63	7:39 AM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/21/2018	В	26	6:00 AM	Х		8 hr	sole flues plugged	adjust uptakes
9/21/2018	В	29	6:00 AM	Х		8 hr	sole flues plugged	adjust uptakes
9/21/2018	В	39	6:00 AM	X	X	8 hr	sole flues plugged	adjust uptakes
9/21/2018	В	42	6:01AM	Х	Х	8 hr	sole flues plugged plugged sole flues, floor drops,	adjust uptakes contacted CCR, adjusted sole flues,
9/22/2018	D	3	7:13 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
9/22/2018	В	26	2:00 PM	V	X	8 hr	sole flues plugged	adjust uptakes, door dampers
9/22/2018	В	31	2:00 PM 6:00 AM	X	X	8 hr 8 hr	sole flues plugged sole flues blocked	adjust uptakes, door dampers
9/23/2018 9/23/2018	В	12	6:00 AM	^	X	8 hr	sole flues blocked	adjust uptakes adjust uptakes
9/23/2018	- B	20	6:00 AM		X	8 hr	sole flues blocked	adjust uptakes
9/23/2018	В	21	6:00 AM		X	8 hr	sole flues blocked	adjust uptakes
9/23/2018	В	22	6:00 AM		X	8 hr	sole flues blocked	adjust uptakes
9/23/2018	В	25	6:00 AM	Х	X	8 hr	sole flues blocked	adjust uptakes
9/23/2018	В	33	6:01 AM		X	8 hr	sole flues blocked	adjust uptakes
9/23/2018	В	38	6:01 AM		X	8 hr	sole flues blocked	adjust uptakes
9/23/2018	B	40	6:01AM 6:01 AM	X	X	8 hr 8 hr	sole flues blocked	adjust uptakes adjust uptakes

9/23/2018	В	58	6:02 AM	X	X	8 hr	sole flues blocked	adjust uptakes
9/23/2018	В	62	6:02 AM	- 1	X	8 hr	sole flues blocked	adjust uptakes
9/23/2018	D	32	6:45 AM	Х		32 mln	low draft	adjusted draft, closed C/S sole flue
9/24/2018	В	28	6:00 AM	Х	Х	8 hr	sole flues blocked	adjust uptakes
/24/2018	В	59	6:00 AM	X		8 hr	sole flues blocked	adjust uptakes
/24/2018	В	60	6:00 AM	Х		8 hr	sole flues blocked	adjust uptakes
/24/2018	В	64	6:00AM	Х	Х	8 hr	sole flues blocked	adjust uptakes
/25/2018	В	27	6:00AM	Х		8 hr	sole flues plugged	adjusted uptakes
/25/2018	В	32	6:00 AM	X		8 hr	sole flues plugged	adjusted uptakes
/25/2018	В	33	6:00AM	X		8 hr	sole flues plugged	adjusted uptakes
/25/2018	В	34	6:01AM	X	Х	8 hr	sole flues plugged	adjusted uptakes
/25/2018	В	43	6:01AM	Х	X	8 hr	sole flues plugged	adjusted uptakes
/25/2018	В	44	6:01 AM	Х		8 hr	sole flues plugged	adjusted uptakes
/25/2018	В	48	6:01AM	Х		8 hr	sole flues plugged	adjusted uptakes
/25/2018	В	63	6:02 AM	X	Х	8 hr	sole flues plugged	adjusted uptakes
/25/2018	В	65	6:02 AM	Х		8 hr	sole flues plugged	adjusted uptakes
/25/2018	В	39	7:30AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
/26/2018	В	40	3:38 AM	X		8 hr	sole flues plugged	adjusted uptakes
26/2018	В	38	3:38 AM	X		8 hr	sole flues plugged	adjusted uptakes
26/2018	В	36	3:38 AM	X		8 hr	sole flues plugged	adjusted uptakes
26/2018	В	31	3:38 AM	Х		8 hr	sole flues plugged	adjusted uptakes
26/2018	В	22	3:39 AM	Х		8 hr	sole flues plugged	adjusted uptakes
26/2018	В	21	3:39 AM	X		8 hr	sole flues plugged	adjusted uptakes
26/2018	В	20	3:39 AM	X		8 hr	sole flues plugged	adjusted uptakes
26/2018	В	16	3:39 AM	X		8 hr	sole flues plugged	adjusted uptakes
26/2018	В	12	3:40 AM	Х		8 hr	sole flues plugged	adjusted uptakes
26/2018	В	19	3:39 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
27/2018	D	56	12:40 PM		х	> 45 min	Maintenance in progress on oven, C/S	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
27/2018	В	27	12:46 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
27/2018	В	31	12:46 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
/27/2018	В	32	12:46 PM		x	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
/27/2018	В	45	12:48 PM		х	8 hr	sole flues plugged	adjusted uptakes
/27/2018	В	58	12:49 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
/27/2018	D	56	12:54 PM	х		> 15 min	Maintenance in progress on oven, C/S	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
/27/2018	В	27	1:10 PM	X	- F	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
/27/2018	В	32	1:10 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and or draf contacted CCR, adjusted sole flues,
, = 1, = 0.20			2.20				and / or low / loss of draft	uptakes, door dampers and / or draf
/27/2018	В	39	1:12 PM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
/27/2018	В	41	1:12 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
72772016		41	1.12 FIVI	^		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draf
/27/2018	В	42	1:12 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
27/2018	В	42	1.12 PW	^		> 13 (((()))	and / or low / loss of draft	uptakes, door dampers and / or draft
/28/2018	В	6	6:48 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
/28/2018	В	19	6:49 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
(00 (0010	_	30	6 40 444	.,		. 45 .	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
/28/2018	В	20	6:49 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
/28/2018	В	28	6:49 AM	X	F 19	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
/28/2018	В	33	6:50AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
/28/2018	В	35	6:50 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
/28/2018	В	37	6:50AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
				100			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
/28/2018	В	44	6:51AM	Х		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
9/28/2018	В	62	6:51 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
9/29/2018	В	60	6:35 AM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	To an in the last						and / or low / loss of draft	uptakes, door dampers and / or draft

9/29/2018	В	58	6:35 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						22	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft
9/29/2018	В	43	6:35AM	Х		> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/29/2018	В	40	6:35 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/29/2018	В	29	6:36AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/29/2018	В	25	6:36AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/29/2018	В	22	6:36AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/29/2018	В	12	6:36 AM	Х		8 hr	sole flues plugged	adjusted uptakes
9/30/2018	В	63	6:39AM	x		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/30/2018	В	38	6:39 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/30/2018	В	63	6:39 AM		х	8 hr	sole flues plugged	adjusted uptakes
9/30/2018	В	38	6:39 AM		х	8 hr	sole flues plugged	adjusted uptakes
9/30/2018	В	21	6:40 AM	х	17 1	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/30/2018	В	21	6:40 AM		х	8 hr	sole flues plugged	adjusted uptakes
9/30/2018	В	6	6:41AM		X	8 hr	sole flues plugged	adjusted uptakes
9/30/2018	В	12	7:50 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					1 - 1		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/30/2018	В	20	7:51AM		Х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
9/30/2018	В	22	7:51 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/30/2018	В	27	7:51 AM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/30/2018	В	31	7:51 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
9/30/2018	В	32	7:51 AM	Type of	x	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
9/30/2018	В	45	7:53 AM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
0/20/2018					V		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
9/30/2018	В	65 19	7:54AM 6:00 AM	X	Х	> 45 mIn 8 hr	and / or low / loss of draft	uptakes, door dampers and / or draft
10/1/2018	В	31	6:00 AM	X		8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
10/1/2018	В	36	6:01 AM	Х		8 hr	sole flues plugged	adjusted uptakes
10/1/2018	В	39	6:01AM	Х	X	8 hr	sole flues plugged	adjusted uptakes
10/1/2018	В	23	10:00 PM		X	8 hr	sole flues plugged	adjusted uptakes
10/1/2018	В	33	10:00 PM	Х	X	8 hr	sole flues plugged	adjusted uptakes
10/2/2018	В	62	7:33 AM	X		8 hr	sole flues plugged	adjusted uptakes
10/2/2018	В	43	7:33 AM	X		8 hr	sole flues plugged	adjusted uptakes
10/2/2018	В	28	7:33AM 7:34 AM	X		8 hr 8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
10/2/2018	В	25	7:34 AM	X		8 hr	sole flues plugged	adjusted uptakes
10/2/2018	В	20	7:34AM	Х		8 hr	sole flues plugged	adjusted uptakes
10/3/2018	В	65	12:41 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/3/2018	В	60	12:41 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/3/2018	В	58	12:41 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/3/2018	В			X			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
		45	12:42 PM	-		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/3/2018	В	42	12:42 PM	X		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/3/2018	В	41	12:42 PM	х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
10/3/2018	В	39	12:42 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/3/2018	В	37	12:43 PM	х	TIE	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/3/2018	В	35	12:43 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/3/2018	В	32	12:43 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
	В	29	12:43 PM	х			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,

10/3/2018	В	27	12:43 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/3/2018	В	22	12:44 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/3/2018	В	21	12:44 PM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
10/2/2018	-		12.45.004	V		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
10/3/2018	В	6	12:45 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
10/4/2018	В	6	12:36 PM		X	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/4/2018	В	21	12:39 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/4/2018	В	22	12:39 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/4/2018	В	27	12:39 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
10/4/2018	В	31	12:39 PM	17.1	x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue- uptakes, door dampers and / or dra
10/4/2018	В	32	12:39 PM		х	>45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue:
10/4/2018	В	33	12:39 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
10/4/2010	В	25	12:40 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
10/4/2018	В	35	12:40 PIVI		^	2 43 IIIIII	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue:
10/4/2018	В	38	12:40 PM	v V	х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
10/4/2018	В	62	12:44 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/4/2018	В	38	1:21 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
10/4/2018	В	31	1:21 PM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
10/4/2018	В	31	1:21 PIVI	^		>13111111	and / or low / loss of draft D56 was under going repairs,	uptakes, door dampers and / or dra
10/5/2018	D	56	12:00 AM	x	x	4 hr 22 min	no sole flue damper present on	adjusted door holes and uptakes
10/5/2018	В	63	12:46 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/5/2018	В	58	12:46 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
10/3/2018	В	36	12:46 PIVI	^		> 13 111111	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
10/5/2018	В	40	12:47 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dr
10/5/2018	В	36	12:47 PM	X	400	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr.
10/5/2018	В	28	12:48 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/5/2018	В	19	12:48 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
10/5/2018	В	63	2:00 PM		X	8 hr	and / or low / loss of draft sole flues plugged	uptakes, door dampers and / or dra adjusted uptakes/door holes
10/6/2018	В	64	7:04AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
			100				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr contacted CCR, adjusted sole flue
10/6/2018	В	59	7:04AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dr
10/6/2018	В	43	7:04AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
10/6/2018	В	42	7:04AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr.
10/6/2018	В	39	7:04 AM	x	PET PARTY	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr
10/6/2018	В	35	7:04 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr
10/6/2018	В	27	7:05AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
10/6/2018	В	12	7:05AM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dr contacted CCR, adjusted sole flue
10/6/2018	В	13	2:00 PM	X		8 hr	and / or low / loss of draft sole flues blocked	uptakes, door dampers and / or dr. adjusted uptakes/door holes
10/6/2018	В	42	2:00 PM		X	8 hr	sole flues blocked	adjusted uptakes/door holes
10/6/2018	В	64	2:01 PM		X	8 hr	sole flues blocked	adjusted uptakes/door holes
10/7/2018	В	27	7:37 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dr
10/7/2018	В	32	7:37 AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flue
					-		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flue
10/7/2018	В	35	7:37 AM		x	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dr

r		0				***	plugged sale flues floor drops	contacted CCP, adjusted sale flues
10/7/2018	В	65	7:40 AM		х	>45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/0/2010	В	38	7:16 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/8/2018	В	36	7:10 AIVI	^		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/8/2018	В	33	7:17 AM	X		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
10/8/2018	В	6	7:17 AM	X		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/9/2019	В	6	2:00 PM		х	8 hr	and / or low / loss of draft sole flues blocked	uptakes, door dampers and / or draft adjusted uptakes, door holes
10/8/2018	В	0	2.00 F W		^		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/9/2018	В	65	6:39 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
40 /0 /0040		64	6 20 444	.,		45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/9/2018	В	64	6:39 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/9/2018	В	43	6:40 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10,3,1010		7,5	0.407				and / or low / loss of draft	uptakes, door dampers and / or draft
10/9/2018	В	40	6:40 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
10/9/2018	В	39	6:40 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
						The state of the state of	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/9/2018	В	31	6:40 AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/0/2010	_	30	C-40 AA4	v	ĺ	> 1E min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/9/2018	В	29	6:40 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/9/2018	В	25	6:40 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-0,0,2010			O. TO AIVI	^			and / or low / loss of draft	uptakes, door dampers and / or draft
10/9/2018	В	23	6:41 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
10/9/2018	В	22	6:41 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/9/2018	В	21	6:41 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
					a mula	THE STATE OF	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/9/2018	В	20	6:41 AM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
10/9/2018	В	19	6:41 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/5/2010		13		^			and / or low / loss of draft	uptakes, door dampers and / or draft
10/9/2018	В	21	2:00 PM		X	8 hr	sole flues plugged	adjusted uptakes/door dampers
10/9/2018	В	22	2:00 PM		X	8 hr	sole flues plugged	adjusted uptakes/door dampers
10/9/2018	В	23	2:00 PM		X	8 hr 8 hr	sole flues plugged	adjusted uptakes/door dampers adjusted uptakes/door dampers
10/9/2018	В	64	2:01 PM 2:01 PM		X	8 hr	sole flues plugged sole flues plugged	adjusted uptakes/door dampers
10/5/2016		03			^		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/10/2018	В	60	12:47 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/10/2018	В	42	12:48 PM	Х	- 6	> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
10/10/2018	В	37	12:48 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/10/2016		3/	12.46 F W			> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
10/10/2018	В	32	12:49 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
10/10/2018	В	12	12:50 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/11/2018	В	63	12:58 PM	Х	-0	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
	_					45 .	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/11/2018	В	58	12:58 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/11/2010	В	40	12.50 004	V		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/11/2018	В	40	12:59 PM	Х		> 13 IIIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
10/11/2018	В	35	12:59 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10,11,1010							and / or low / loss of draft	uptakes, door dampers and / or draft
10/11/2018	В	26	1:00 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					-		and / or low / loss of draft	uptakes, door dampers and / or draft
10/12/2018	В	24	12:48 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/12/2018	В	25	12:48 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
			42.42.21		, I		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/12/2018	В	27	12:48 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/12/2019	Р	27	12:40 DN4	-	V	> AE min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/12/2018	В	37	12:49 PM	(6)	X	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
10/12/2018	В	38	12:49 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	-	100	-2,45 114		<u> </u>		and / or low / loss of draft	uptakes, door dampers and / or draft
	В	63	12:52 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/12/2018							and / or low / loss of draft	uptakes, door dampers and / or draft

							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/12/2018	В	16	1:27 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/12/2018	В	23	1:27 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and or low loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/12/2018	В	24	1:27 PM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/12/2018	В	25	1:27 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/12/2018	В	27	1:28 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/11/1010		-	2.251111			- 13 mm	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/12/2018	В	29	1:28 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/12/2018	В	33	1:28 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/12/2018	В	38	1:28 PM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_		4 30 014			. 45	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/12/2018	В	39	1:29 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/12/2018	В	41	1:29 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/12/2018	В	59	1:29 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/13/2018	В	6	6:00 AM	Х	х	8 hr	and / or low / loss of draft sole flues blocked	uptakes, door dampers and / or draf adjusted uptakes and door holes
10/13/2018	В	19	6:00 AM	X		8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	22	6:00AM	X	8 3	8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	28	6:01AM	Х	7-1	8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	31	6:01AM	Х	Х	8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	39	6:01AM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	42	6:01AM	Х		8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	43	6:02 AM	Х	Х	8 hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	60	6:02 AM	Х	3	B hr	sole flues blocked	adjusted uptakes and door holes
10/13/2018	В	62	6:02 AM	Х		8 hr	sole flues blocked	adjusted uptakes and door holes
10/14/2018	В	12	6:00 AM	Χ	Х	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	20	6:00AM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	21	6:00 AM	Χ	75	8 hr	sale flues plugged	adjusted uptakes
10/14/2018	В	32	6:01AM		Х	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	35	6:01 AM		Х	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	36	6:01AM		Х	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	40	6:02 AM	Χ	Х	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	44	6:02AM		Х	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	64	6:02 AM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
10/14/2018	В	22	8:30 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/15/2018	В	21	12:17 PM		х	> 45 min	plugged soleflues, floor drops,	contacted CCR, adjusted sole flues,
			4047.044				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/15/2018	В	27	12:17 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/15/2018	В	37	12:18 PM		Х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/15/2018	В	41	12:22 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/15/2018	В		12:23 PM		х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/13/2018	ь	59	12.23 FIVI		^	2 43 IIIIII	and I am law I lane of death	uptakes, door dampers and / or draf
	_						and / or low / loss of draft	contacted CCD, adjusted sale flues
10/15/2018	В	63	12:23 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/15/2018	В	63 25	12:23 PM 1:13 PM	x	х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
				x	х		plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/15/2018	ВВ	25	1:13 PM 1:13 PM	х	x	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/15/2018 10/15/2018 10/15/2018	B B	25 33 35	1:13 PM 1:13 PM 1:14 PM	X	x	> 15 min > 15 min > 15 min	plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/15/2018	ВВ	25	1:13 PM 1:13 PM	х	x	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/15/2018 10/15/2018 10/15/2018	B B	25 33 35	1:13 PM 1:13 PM 1:14 PM	X	x	> 15 min > 15 min > 15 min	plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/15/2018 10/15/2018 10/15/2018 10/15/2018	B B B	25 33 35 36	1:13 PM 1:13 PM 1:14 PM 1:14 PM	x x	х	> 15 min > 15 min > 15 min > 15 min	plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, loor drops, and / or low / loss of draft	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/15/2018 10/15/2018 10/15/2018 10/15/2018 10/15/2018	B B B B	25 33 35 36 37	1:13 PM 1:13 PM 1:14 PM 1:14 PM 1:14 PM	x x x	х	> 15 min > 15 min > 15 min > 15 min > 15 min > 15 min	plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/15/2018 10/15/2018 10/15/2018 10/15/2018 10/15/2018 10/15/2018 10/15/2018	B B B B B B	25 33 35 36 37 39 59	1:13 PM 1:13 PM 1:14 PM 1:14 PM 1:14 PM 1:14 PM	x x x x	х	> 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min	plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/15/2018 10/15/2018 10/15/2018 10/15/2018 10/15/2018 10/15/2018	B B B B B	25 33 35 36 37 39	1:13 PM 1:13 PM 1:14 PM 1:14 PM 1:14 PM	x x x	х	> 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min > 15 min	plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf

10/16/2018	В	43	12:24 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/10/2016		43	12.24 [[]	^		> 13 (11)	and / or low / loss of draft	uptakes, door dampers and / or draft
10/16/2018	В	42	12:24 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						DATE TO SERVICE OF THE PARTY OF	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/16/2018	В	35	12:25 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/16/2018	В	32	12:25 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/10/2018		32	12.23 FIVI	^		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
10/16/2018	В	29	12:25 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	Mary.	- 311				T	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/16/2018	В	28	12:25 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/16/2018	В	27	12:25 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/10/2018	ь	27	12.23 FIVI	^		> 13	and / or low / loss of draft	uptakes, door dampers and / or draft
10/16/2018	В	24	12:26 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/16/2018	В	23	12:26 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/16/2018	В	10	12:26 PM	v		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/10/2018		19	12:26 FIVI	Х		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
10/16/2018	В	7	12:28 PM	Х		> 15 min	follow up repairs for sole flue	adjusted uptakes and door holes
10/17/2018	В	60	2:05 PM	х	100	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/17/2018	В	58	2:05 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/17/2018	В	41	2:05 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/1//2018		72	2.03 (10)	^		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
10/17/2018	В	40	2:05 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
		-					and / or low / loss of draft plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/17/2018	В	38	2:06 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
10/17/2018	В	22	2:06 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/17/2018	В	- 22	2.00 FIVI	^_		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
10/17/2018	В	20	2:06 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
			1				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/17/2018	В	12	2:06 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/17/2010			2.07.044	V		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/17/2018	В	6	2:07 PM	Х	31	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/18/2018	В	64	11:50AM	x		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
- +	2500						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/18/2018	В	62	11:50 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
10/10/2010		20	11.51 444			. 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/18/2018	В	39	11:51 AM	×		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/18/2018	В	36	11:51 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		-	-				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/18/2018	В	31	11:52 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
40/40/0040		27	44.53.444			45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/18/2018	В	27	11:52 AM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/18/2018	В	21	11:53 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
10/18/2018	В	25	2:31 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/18/2018	В	6	10:00 PM		х	8 hr	sole flues blocked	adjusted draft
10/19/2018	В	19	10:00 PM		I x I	8 hr	sole flues blocked	adjusted draft
10/19/2018	В	21	10:00 PM		X	8 hr	sole flues blocked	adjusted draft
10/19/2018	В	35	10:01PM	Х		8 hr	sole flues blocked	adjusted draft
10/19/2018 10/19/2018	В	59	10:01 PM	X	X	8 hr 8 hr	sole flues blocked	adjusted draft adjusted draft
10/19/2018	В	63	7:33 AM	X	1 1	8 hr	sole flues plugged	adjusted uptakes
10/20/2018	В	32	7:34 AM	X		8 hr	sole flues plugged	adjusted uptakes
10/20/2018	В	19	7:34 AM	Х		8 hr	sole flues plugged	adjusted uptakes
10/20/2018	В	28	12:33 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-5, -5, 2020			22.00 1 141	^			and / or low / loss of draft	uptakes, door dampers and / or draft
10/20/2018	В	29	12:33 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/20/2018	В	40	12:35 PM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
10/21/2015	В	22	4.51 444	,		≥ 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/21/2018	ь	33	4:51 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft

10/21/2018	В	25	5:14AM	х	27	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/21/2018	В	39	7:13 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
			712071111				and / or low / loss of draft	uptakes, door dampers and / or draft
10/21/2018	В	38	7:13 AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/21/2018	В	37	7:13 AM	х		> 15 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/21/2018	В	35	7:13 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/21/2018	В	27	7:14 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		24	7:14 AM		FF-17-	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/21/2018	В	24	7.14 AIVI	Х		> 13 IIIII	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
10/21/2018	В	22	8:15 AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/21/2018	В	25	8:15 AM		X	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/21/2018	В	28	8:15 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/21/2018	В	38	8:16 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
10/21/2018		63	9:10 AAA		v	> AE min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/21/2018	В	63	8:19 AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/22/2018	В	31	6:58 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/22/2018	В	22	6:58AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
-19-19-10-	- 1		0	BUR			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/22/2018	В	21	6:58 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/22/2018	В	6	6:58 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,	D 05 1						and / or low / loss of draft	uptakes, door dampers and / or draf
10/23/2018	В	65	6:54AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/23/2018	В	64	6:54 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/23/2018	В	60	6:54 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/23/2018	В	58	6:54 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/23/2018	В	40	6:54AM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/23/2018	В	36	6:54 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/23/2018	В	28	6:55 AM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/23/2018	В	20	6:55 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/23/2018	В	19	6:55 AM	х		> 15 min	plugged soleflues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/24/2018	В	32	2:01 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
10/24/2018	В	22	2:02 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/25/2018	В	12	12:21 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/25/2018	В	63	12:26 PM	-	х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
				11-7	^		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/25/2018	В	12	1:04 PM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf
10/25/2018	В	63	1:05 PM	Х		> 15 min	and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/26/2018	В	6	12:11 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/26/2018	В	20	12:11 PM	х		>15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
10/26/2018	В	21	12:11 PM	х		>15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/26/2018	В	31	12:12 PM	х			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
						> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
10/26/2018	В	32	12:12 PM	Х		> 15 min		

10/26/2018	В	38	12:12 PM	Х	-	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
10/27/2018	В	-	7.00 444		V	0 -	and / or low / loss of draft	uptakes, door dampers and / or draft
0/27/2018	В	6 19	7:00 AM 7:00 AM	Х	X	8 hr 8 hr	sole flues blocked	adjusted door holes and uptakes adjusted door holes and uptakes
0/27/2018	В	21	7:00 AM	^	х	8 hr	sole flues blocked	adjusted door holes and uptakes
0/27/2018	В	25	7:00AM	Х		8 hr	sole flues blocked	adjusted door holes and uptakes
0/27/2018	В	31	7:01 AM		х	8 hr	sole flues blocked	adjusted door holes and uptakes
0/27/2018	В	33	7:01 AM	Х	X	8 hr	sole flues blocked	adjusted door holes and uptakes
0/27/2018	В	36	7:01AM	Х		8 hr	sole flues blocked	adjusted door holes and uptakes
0/27/2018	В	37	7:01AM	Х		8 hr	sole flues blocked	adjusted door holes and uptakes
0/27/2018	В	38	7:01 AM		х	8 hr	sole flues blocked	adjusted door holes and uptakes
0/27/2018	В	58	7:02 AM	Х		8 hr	sole flues blocked	adjusted door holes and uptakes
0/27/2018	В	59	7:02 AM	Х		8 hr	sole flues blocked	adjusted door holes and uptakes
0/27/2018	В	64	7:02 AM		х	8 hr	sole flues blocked	adjusted door holes and uptakes
0/29/2018	В	40	7:05 AM	х	П	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
0/29/2018	В	27	7:05 AM	Х		8 hr	sole flues blocked	adjusted uptakes, door holes
0/29/2018	В	28	7:05AM		х	8 hr	sole flues blocked	adjusted uptakes, door holes
0/29/2018	В	33	7:05 AM	Х		8 hr	sole flues blocked	adjusted uptakes, door holes
0/29/2018	В	40	7:06AM		Х	8 hr	sole flues blocked	adjusted uptakes, door holes
0/30/2018	В	65	7:33 AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
0/30/2018	В	63	7:33 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						1	and / or low / loss of draft	uptakes, door dampers and / or draft
0/30/2018	В	32	7:34 AM	X		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
0/30/2018	В	31	7:34 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
0/30/2018	В	19	7:34 AM	X		> 15 min	plugged sole flues, floor drops, and / or low/ loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
0/31/2018	В	38	12:28 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
0/31/2018	В	36	12:28 PM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
0/31/2018	В	22	12:29 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
			N				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
0/31/2018	В	21	12:29 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
0/31/2018	В	16	12:29 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
						100 100	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
0/31/2018	В	12	12:29 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
0/31/2018	В	6	12:30 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
0/31/2018	В	6	12:30 PM		х	8 hr	sole flues blocked	adjusted uptakes, door holes
0/31/2018	В	19	12:31 PM		х	8 hr	sole flues blocked	adjusted uptakes, door holes
0/31/2018	В	22	12:31 PM		X	8 hr	sole flues blocked	adjusted uptakes, door holes
0/31/2018	В	31	12:32 PM		х	8 hr	sole flues blocked	adjusted uptakes, door holes
0/31/2018	В	63	12:32 PM		х	8 hr	sole flues blocked	adjusted uptakes, door holes
	_		42.42.24				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/1/2018	В	27	12:48 PM		×	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draf
44 /4 /2040			43.40.044		v	40.11	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/1/2018	В	33	12:48 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draf
11/1/2018	В	35	12:49 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-	-						and / or low / loss of draft	uptakes, door dampers and / or draf
11/1/2018	В	36	12:49 PM		x	> 45 mln	Plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draf
11/1/2018	В	37	12:49 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/1/2018	В	38	12:49 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/1/2018	В	62	12:52 PM		x	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draf
11/1/2018	В	65	12:52 PM		х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						BILLY MANUELLE	and / or low / loss of draft	uptakes, door dampers and / or draf
11/1/2018	В	37	1:19 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
44 10045			4.05.511				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/1/2018	В	62	1:20 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
	В	64	12:23 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/2/2018							and / or low / loss of draft	uptakes, door dampers and / or draf
11/2/2018							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,

11/2/2018	В	40	12:24 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
	-	22	12-24 004	v		. 15 min	and / or low / loss of draft plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/2/2018	В	33	12:24 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
11/2/2018	В	32	12:24 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/2/2018	В	28	12:25 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_	22	42.25.004	.,		45	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
11/2/2018	В	27	12:25 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
11/2/2018	В	30	5:14 PM	х	-612	1 hr 22 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/3/2018	В	19	6:00AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/3/2018	В	25	6:00 AM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
11/3/2018	В	31	6:01 AM	Χ	Х	8 hr	sole flues plugged	adjusted uptakes
11/3/2018	8	35	6:01 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/3/2018	В	64	6:01AM		X	8 hr	sole flues plugged	adjusted uptakes
11/4/2018	B	19 20	6:00 AM 6:00 AM		X	8 hr	sole flues plugged	adjusted updates adjusted updates
11/4/2018	В	22	6:00 AM		X	8 hr 8 hr	sole flues plugged sole flues plugged	adjusted updates
11/4/2018	В	23	6:00 AM	_	x	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	24	6:00 AM		x	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	27	6:01 AM		X	8 hr	sole flues plugged	adjusted updates
11/4/2018	8	28	6:01 AM		х	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	32	6:01 AM		X	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	34	6:02 AM		х	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	35	6:02 AM		х	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	36	6:02AM	5-76	х	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	40	6:02 AM		х	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	41	6:02 AM		Х	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	48	6:03 AM		Х	8 hr	sole flues plugged	adjusted updates
11/4/2018	В	63	6:03 AM	Χ		8 hr	sole flues plugged	adjusted updates
11/4/2018	В	65	6:03 AM	χ		8 hr	sole flues plugged	adjusted updates
11/5/2018	В	38	12:19 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_		404004	v		45-1	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/5/2018	В	36	12:19 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
11/5/2018	В	32	12:19 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/5/2018	В	21	12:19 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and or draft contacted CCR, adjusted sole flues,
11/5/2018	В	20	12:19 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/5/2018	В	6	12:20 PM	х	111	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/6/2018	В	12	12:53 PM	х	3/11/	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	-	**		^		> 15 mm	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
11/6/2018	В	16	12:56 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/6/2018	В	21	12:56 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/6/2018	В	28	12:59 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/6/2018	В	33	12:59 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draf
11/6/2018	В	38	12:59 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/6/2018	В	62	1:03 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/6/2018	В	25	1:36 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				-			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/6/2018	В	28	1:36 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
11/6/2018	В	29	1:36 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/6/2018	В	30	1:36 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/6/2018	В	33	1:36 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
11/6/2018	В	34	1:37 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or drain
11/6/2018	В	35	1:37 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,

							1-1	
11/6/2018	В	39	1:37 PM	х	C	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/6/2018	В	41	1:37 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11,0,1010		71	2.57 1101			× 13	and / or low / loss of draft	uptakes, door dampers and / or draft
11/6/2018	В	48	1:37 PM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/6/2018	В	58	1:38 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
44 45 45545			4 00 004	1		Congression -	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/6/2018	В	59	1:38 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
11/6/2018	В	60	1:38 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
11/6/2018	В	62	1:38 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/7/2018	В	43	1:24 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/7/2018	В	42	1:24 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/7/2018	В	40	1:24 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/7/2018	В	31	1:25 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/7/2018	В	27	1:25 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						- 22	and / or low / loss of draft	uptakes, door dampers and / or draft
11/7/2018	В	22	1:25 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
44.47.4224			405.004				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/7/2018	В	16	1:25 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/7/2018	В	6	2:00 PM		Х	8 hr	sole flues plugged	adjusted updates
11/7/2018	В	31	2:00 PM		X	8 hr	sole flues plugged	adjusted updates
11/7/2018	В	41	2:00 PM		Х	8 hr	sole flues plugged	adjusted updates
11/7/2018	В	42	2:02 PM		X	8 hr	sole flues plugged	adjusted updates
11/7/2018	B	63 36	2:02 PM 6:35 AM	х	х	8 hr 8 hr	sole flues plugged sole flues plugged	adjusted updates
11/8/2018							plugged sole flues, floor drops,	adjusted door holes, updates contacted CCR, adjusted sole flues,
11/8/2018	В	37	6:36AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/8/2018	В	35	6:36AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/8/2018	В	32	6:37 AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/8/2018	В	19	6:38 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					- V		and / or low / loss of draft	uptakes, door dampers and / or draft
11/9/2018	B	12 19	12:00 PM	Х	X	8 hr 8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	20	12:00 PM 12:00 PM	Х	-	8 hr	sole flues plugged sole flues plugged	adjusted uptakes and door holes adjusted uptakes and door holes
11/9/2018	В	21	12:00 PM	X	X	8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	23	12:01 PM	X	X	8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	24	12:01 PM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	25	12:01 PM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	28	12:01 PM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	33	12:02 PM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	39	12:02 PM	Х		8 hr	sole flues plugged	adjusted uptakes and door holes
11/9/2018	В	65	12:03 PM	X		8 hr	sole flues plugged	adjusted uptakes and door holes
11/10/2018	В	27	6:00AM	X	- V	8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	38 40	6:01AM 6:01 AM	X	X	8 hr 8 hr	sole flues blocked	adjusted uptakes, door holes adjusted uptakes, door holes
11/10/2018	В	42	6:01AM	X		8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	43	6:01 AM	X	x	8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	45	6:01 AM	Х		8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	46	6:02 AM	Х		8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	48	6:02 AM	Х		8 hr	sole flues blocked	adjusted uptakes, door holes
11/10/2018	В	35	6:32 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/10/2018	В	34	6:32 AM	х	200	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/10/2018	В	6	10:02 AM	X	X	8 hr	and / or low / loss of draft sole flues blocked	uptakes, door dampers and / or draft adjusted uptakes, door holes
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/11/2018	В	64	7:00 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/11/2018	В	63	7:00 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/11/2018	В	45	7:00 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		. 73		- "			and / or low / loss of draft	uptakes, door dampers and / or draft

11/11/2018	В	39	7:00 AM	х		> 15 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/11/2018	В	64	7:00AM		X	8 hr	sole flues blocked	adjusted uptakes and door holes
11/11/2018	В	32	7:01 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/11/2018	В	31	7:01 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/11/2018	В	22	7:01 AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
	15.1					a the Differ	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
11/11/2018	В	32	7:01 AM 7:01 AM	Х	X	> 15 min 8 hr	and / or low / loss of draft sole flues blocked	uptakes, door dampers and / or draft adjusted uptakes and door holes
11/11/2018	В	31	7:01 AM		X	8 hr	sole flues blocked	adjusted uptakes and door holes
11/11/2018	В	27	7:01 AM		x	8 hr	sole flues blocked	adjusted uptakes and door holes
11/12/2018	В	37	7:25AM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/12/2018	В	35	7:25 AM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
11/12/2018	В	33	7:26AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
11/12/2018	В	19	7:26 AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/13/2010	В	64	6:10AM	х	12 12 mg	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/13/2018	В	64	6:10AM	^		> 12 mm	and / or low / loss of draft	uptakes, door dampers and / or draf
11/13/2018	В	48	6:10 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/13/2018	В	42	6:10 AM	х	THILL	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/13/2018	В	41	6:10 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/13/2018	В	40	6:10AM	Х	S. Diet	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/13/2018	В	36	6:10AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
			1-11-11	De la la			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/13/2018	В	25	6:11 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/13/2018	В	21	6:11 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/14/2018	В	39	12:53 PM	X		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/14/2018	В	35	12:53 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
e de la constant	21.00			1			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/14/2018	В	28	12:53 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
11/14/2018	В	22	12:54 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/14/2018	В	22	2:00 PM		X	8 hr	sole flues plugged	adjusted uptakes
11/14/2018	В	64	2:00 PM		Х	8 hr	sole flues plugged	adjusted uptakes
11/15/2018	В	6	12:41 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draw
44 44 7 40040	_		40.44.004	_	,	. 45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/15/2018	В	20	12:41 PM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or drai
11/15/2018	В	31	12:42 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/15/2018	В	32	12:42 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or drai
11/15/2018	В	33	12:42 PM	Falli	х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
		BIVE					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/15/2018	В	38	12:43 PM		X	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
11/15/2018	В	58	12:46 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/15/2018	В	63	12:46 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/15/2018	В	6	1:12 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/15/2018	В	20	1:13 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
			E1		partition.		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/15/2018	В	31	1:13 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
	В	32	1:13 PM	Х			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,

11/15/2018	В	38	1:14 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/13/2010		30	1.147101	^		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
11/15/2018	В	58	1:15 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
					-		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/15/2018	В	59	1:15 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
	_		4.45.004	.,		45.4	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/15/2018	В	60	1:15 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/15/2018	В	62	1:15 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/13/2010		02	1.13 (10)	^		> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
11/15/2018	В	65	1:15 PM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	D	16	7.00 444	V	-	0 he	and / or low / loss of draft	uptakes, door dampers and / or draft
11/16/2018	В	16 21	7:00AM 7:00AM	Х	х	8 hr 8 hr	sole flues plugged sole flues plugged	adjusted door holes/uptakes adjusted door holes/uptakes
11/16/2018	В	23	7:00AM	X		8 hr	sole flues plugged	adjusted door holes/uptakes
11/16/2018	В	28	7:00 AM	X		8 hr	sole flues plugged	adjusted door holes/uptakes
11/16/2018	В	29	7:01AM	Х		8 hr	sole flues plugged	adjusted door holes/uptakes
11/16/2018	В	33	7:01 AM	Х		8 hr	sole flues plugged	adjusted door holes/uptakes
11/16/2018	В	35	7:01AM	Х		8 hr	sole flues plugged	adjusted door holes/uptakes
11/16/2018	В	36	7:02AM	Х		8 hr	sole flues plugged	adjusted door holes/uptakes
11/16/2018	В	40	7:02 AM	Χ	Х	8 hr	sole flues plugged	adjusted door holes/uptakes
11/16/2018	В	45	7:02 AM	Х	V	8 hr	sole flues plugged	adjusted door holes/uptakes
11/16/2018	В	59	7:03 AM		X	8 hr	sole flues plugged	adjusted door holes/uptakes contacted CCR, adjusted sole flues,
11/16/2018	В	27	7:10 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or draft
11/16/2018	В	7	7:13 AM	Х		3 hrs 2 mln	follow was repairs for sole flue	Increased draft and adjusted sole flue
11/17/2018	В	63	6:52 AM	X		8 hr	sole flues plugged	adjusted uptakes
11/17/2018	В	37	6:53 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/17/2018	В	33	6:53AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/17/2018	В	21	6:53 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/17/2018	В	16	6:54AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/17/2018	В	65	7:28 AM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/17/2018	В	62	7:28 AM		x	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/17/2018	В	21	2:00 PM		X	8 hr	sole flues plugged	adjusted uptakes
11/18/2018	С	36	4:00AM	Х		16 min	low draft	Adjusted sole flues and crowns
11/18/2018	В	19	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	20	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	22	6:00AM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	25	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	31	6:01AM	X	X	8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	32	6:01AM 6:01AM	X	X	8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
11/18/2018	В	38	6:01 AM	X		8 hr	sole flues plugged	adjusted uptakes
11/18/2018	В	39	6:02 AM	X		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	c	35	4:48 AM	Х		26 min	low draft	Adjusted sole flues and crowns
11/19/2018	В	12	6:00AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	33	6:00AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	34	6:00AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	36	6:01 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	39	6:01AM		X	8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	40	6:01 AM	X		8 hr	sole flues plugged	adjusted uptakes
11/19/2018	В	58	6:03 AM	X		8 hr	sole flues plugged	adjusted uptakes
11/19/2018 11/20/2018	С	60	6:03AM 3:42 AM	X		8 hr 19 min	sole flues plugged low draft	adjusted uptakes Adjusted crowns and sole flues.
		1 20					plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/20/2018	В	65	12:37 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
44 400 40040		-					plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/20/2018	В	62	12:37 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/20/2018	В	39	12:38 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-1, -0, 2016		,,,,	12.30 FIVI			× 13 IIIII	and / or low / loss of draft	uptakes, door dampers and / or draft
11/20/2018	В	35	12:38 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
11/20/2018	В	29	12:39 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
11/20/2018	В	28	12:39 PM	х	7	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/21/2018	В	6	12:52 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
		-			\ .		plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/21/2018	В	28	12:54 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft

		_	-				labored aslathos the advance	
11/21/2018	В	32	12:54 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/21/2018	В	33	12:54 PM	lo l	x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
			1		Canelle.		and / or low / loss of draft	uptakes, door dampers and / or draft
11/21/2018	В	41	12:55 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/21/2018	В	44	12:55 PM	150	x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/21/2016	ь	77	12.55 FW		^	/45 IIIIII	and or low / loss of draft	uptakes, door dampers and or draft
11/21/2018	В	59	1:14 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
	_				(FEE) 6	all the same of the same	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/21/2018	В	32	1:14 PM	Х	10.5	> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/21/2018	В	21	1:15 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						V-STATE OF THE STA	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/21/2018	В	19	1:15 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/21/2018	В	6	1:16 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/21/2018	С	33	11:00 PM	X		30 min	and / or low / loss of draft	uptakes, door dampers and / or draft Adjusted crowns and sole flues.
11/22/2018	В	31	6:00 AM	X	X	8 hr	sole flues plugged	adjusted uptakes
11/22/2018	В	37	6:00AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/22/2018	В	38	6:00AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/22/2018	В	64	6:00AM	Х	X	8 hr	sole flues plugged	adjusted uptakes
11/23/2018	В	28	6:00 AM	X		8 hr	sole flues plugged	adjusted uptakes
11/23/2018	В	29	6:00 AM	X		8 hr	sole flues plugged	adjusted uptakes
11/23/2018	В	36	6:00AM	X	X	8 hr	sole flues plugged	adjusted uptakes
11/23/2018	В	40	6:00AM	X	X	8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
11/23/2018	В	63	6:00 AM	X	1	8 hr	sole flues plugged	adjusted uptakes
11/24/2018	В	20	6:00 AM	Х	i	8 hr	sole flues plugged	adjusted uptakes
11/24/2018	В	35	6:00AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/24/2018	В	62	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
11/25/2018	В	65	6:51AM	x		> 15 min	plugged soleflues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/25/2018	В	60	6:51 AM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/25/2018	В	58	6:51AM	x		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/25/2018	В	40	6:51 AM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/25/2018	B	65	6:51AM		X	8 hr	sole flues plugged	adjusted uptakes
11/25/2018	В	40	6:51 AM		Х	8 hr	sole flues plugged	adjusted uptakes
11/25/2018	В	32	6:52AM	X	88 W	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/25/2018	В	31	6:52 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11,13,1010		32	0.5271101	^		- 13 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
11/25/2018	В	22	6:52AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/25/2018	В	21	6:52 AM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/25/2018	В	32	6:52AM		X	8 hr	and / or low / loss of draft sole flues plugged	uptakes, door dampers and / or draft adjusted uptakes
11/25/2018	В	31	6:52 AM		X	8 hr	sole flues plugged	adjusted uptakes
11/25/2018	В	28	6:52AM		X	8 hr	sole flues plugged	adjusted uptakes
11/25/2018	В	22	6:52 AM		Х	8 hr	sole flues plugged	adjusted uptakes
11/25/2018	В	20	6:52 AM		x	8 hr	sole flues plugged	adjusted uptakes
11/26/2018	В	45	7:35 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/26/2018	В	43	7:35 AM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/26/2018	В	42	7:35 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/26/2018	В	39	7:35 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/26/2018	В	38	7:35 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/26/2018	В	36	7:35 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues,
11/26/2018	В	35	7:35 AM	х		> 15 min	plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
				2000		Commence of the commence of th	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
11/26/2018	В	33	7:36AM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
11/27/2018	В	48	6:49 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft

11/27/2018	В	37	6:49 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/27/2018	В	28	6:50AM			> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	0		650444	v		F-12/24-5-7	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/27/2018	В	6	6:50 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
1/28/2018	В	64	1:03 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/28/2018	В	63	1:03 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/28/2018	В	62	1:03 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/28/2018	В	60	1:03 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/28/2018	В	58	1:03 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						7 5	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/28/2018	В	41	1:04 PM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
1/28/2018	В	40	1:04 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/28/2018	В	35	1:04 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-, -, -, -, -, -, -, -, -, -, -, -, -, -	_						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/28/2018	В	33	1:04 PM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/28/2018	В	23	1:05 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/28/2018	В	22	1:05 PM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/28/2018	В	20	1:05 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
. /20 /20/0		46	4.05.004			> 4F	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/28/2018	В	16	1:05 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/28/2018	В	6	2:00 PM		X	8 hr	sole flues plugged	adjusted uptake and door holes
/28/2018	B	21	2:00 PM 2:00 PM		X	8 hr	sole flues plugged	adjusted uptake and door holes adjusted uptake and door holes
/28/2018	В				X	8 hr	sole flues plugged	adjusted uptake and door holes
1/28/2018 1/28/2018	В	38 41	2:01 PM 2:02 PM		X	B hr	sole flues plugged sole flues plugged	adjusted uptake and door holes
1/28/2018	В	60	2:02 PM	-	X	8 hr	sole flues plugged	adjusted uptake and door holes
1/28/2018	В	64	2:02 PM		X	8 hr	sole flues plugged	adjusted uptake and door holes
			i	_			plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
1/29/2018	В	12	12:48 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/29/2018	В	16	12:48 PM		x	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/29/2018	В	25	12:51 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues,
							plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/29/2018	В	27	12:51 PM		X	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
1/29/2018	В	31	12:51 PM	. 0	x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
1/29/2018	В	32	12:51 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-,,	L 1		1				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/29/2018	В	42	12:54 PM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
1/29/2018	В	44	12:54 PM		х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
400 40040		24	4 42 554			. 4F	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/29/2018	В	21	1:43 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and/ or draft
1/29/2018	В	25	1:43 PM	х	15	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/29/2018	В	27	1:43 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
1/29/2018	В	31	1:43 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
1/29/2018	В	32	1:43 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
11/29/2018	В	39	1:44 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
11/30/2018	В	16	6:00AM	Х		8 hr	and / or low / loss of draft sole flue blocked	uptakes, door dampers and / or draft adjust uptakes, door holes
1/30/2018	В	19	6:00 AM	X	15.00	8 hr	sole flue blocked	adjust uptakes, door holes
1/30/2018	В	21	6:00 AM	,	X	8 hr	sole flue blocked	adjust uptakes, door holes
11/30/2018	В	35	6:01 AM	Х		8 hr	sole flue blocked	adjust uptakes, door holes
	В	38	6:01AM	Х		8 hr	sole flue blocked	adjust uptakes, door holes
11/30/2018								

11/30/2018	В	16	8:02AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
11/30/2018	D	3	8:22AM	Х		1 hr 53 min	low draft	adjusted sole flue and Increased draf
12/2/2018	В	65	7:25 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/2/2018	В	58	7:25AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
12/2/2018	В	40	7:25 AM	Х		> 12 MIII	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
12/2/2018	В	37	7:25 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
12/2/2018	В	32	7:26AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/2/2018	В	31	7:26AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/2/2018	В	20	7:26 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	В	6		х	W 5 5 1	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/2/2018	В	0	7:26AM	^	- 60		and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/2/2018	В	6	7:53 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or drag
12/2/2018	В	31	7:54AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or drai
12/2/2018	В	32	7:54 AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/2/2018	В	58	7:57 AM		x	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
				v		. 15	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/3/2018	В	64	12:17 PM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/3/2018	В	63	12:17 PM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or dra
12/3/2018	В	62	12:17 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/3/2018	В	35	12:18 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/3/2018	В	25	12:19 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
or the state of	В	23	12:19 PM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/3/2018			23				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra- contacted CCR, adjusted sole flues
12/3/2018	В	22	12:19 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
12/3/2018	В	21	12:19 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/4/2018	В	20	12:40 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/4/2018	В	21	12:40 PM		x	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
12/4/2018	В	22	12:40 PM		×	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/4/2018	В	27	12:40 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
12/4/2018	В	38	12:41 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/4/2018	В	41	12:44 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/4/2018	В	59	12:45 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
12/4/2018	В	63	12:45 PM		x	> 45 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
				74.7		A TO BE MANUFACTURE OF	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/4/2018	В	64	12:45 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
12/4/2018	В	59	1:20 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/4/2018	В	48	1:21 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/4/2018	В	40	1:21 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/4/2018	В	38	1:21 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
	7/50					727 12 10 10 10 10 10	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/4/2018	В	30	1:22 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or dra
12/4/2018	В	28	1:22 PM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra

							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/4/2018	В	20	1:22 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/4/2018	В	19	1:22 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
						8 hr	and / or low / loss of draft	uptakes, door dampers and / or draft
12/4/2018	В	23	2:01 PM		X	0 111	sole flues plugged plugged sole flues, floor drops,	adjusted uptakes contacted CCR, adjusted sole flues,
12/5/2018	В	58	12:30 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/5/2010	_	22	42.24.004			45	plugged sale flues, floor drops,	contacted CCR, adjusted sole flues,
12/5/2018	В	33	12:31 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/6/2018	В	27	8:07 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
			5.67 71111			- 25 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
12/6/2018	В	25	8:07 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/6/2018	В	58	2:00 PM		X	8 hr	and / or low / loss of draft sole flues plugged	uptakes, door dampers and / or draft adjust uptakes and door
12/7/2018	В	6	2:00 PM	Х	X	8 hr	sole flues plugged	adjusted uptakes
2/7/2018	В	32	2:00 PM	X		8 hr	sole flues plugged	adjusted uptakes
2/7/2018	В	40	2:00 PM	Х		8 hr	sole flues plugged	adjusted uptakes
2/7/2018	В	64	2:37 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2///2016		04	2.37 FIVI	^		> 13	and / or low / loss of draft	uptakes, door dampers and / or draft
12/8/2018	В	64	7:03AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft	uptakes, door dampers and / or draft
12/8/2018	В	63	7:03 AM	Х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/8/2018	В	60	7:03 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
0.40.405	_		2.00	.,		4= .	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/8/2018	В	59	7:03AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/8/2018	В	39	7:04 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/8/2018	В	39	7:04 AIVI	^	100	> 12 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/8/2018	В	38	7:04 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_			1			and / or low / loss of draft	uptakes, door dampers and / or draft
2/8/2018	В	36	7:04 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/8/2018	В	34	7: 0 5 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
						The state of the s	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/8/2018	В	31	7:05AM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/8/2018	В	31	2:00 PM		X	8 hr	sole flues blocked	adjusted uptakes
12/8/2018	В	38	2:02 PM		X	8 hr	sole flues blocked	adjusted uptakes
2/8/2018	В	59	2:02 PM		X	B hr	sole flues blocked	adjusted uptakes
12/8/2018	В	64	2:03 PM		X	8 hr	sole flues blocked	adjusted uptakes
12/9/2018	С	53	4:27 AM		X	5 0 min	low draft	adjusted sole flues and dampers
12/9/2018	В	65	6:55 AM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/9/2018	В	58	6:55 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
10/0/000		25	6.55.444	.,		46	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/9/2018	В	35	6:55 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/9/2018	В	23	6:56AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12,3,2010		2.5	0.50/101			> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
12/9/2018	В	22	6:56AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	_						and / or low / loss of draft	uptakes, door dampers and / or draft
12/9/2018	В	21	6:56AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues,
							plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/9/2018	В	20	6:56AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/0/200	_		6.56	.,		. 45 .	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/9/2018	В	19	6:56AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/0/2010	В	12	6-57 004	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/9/2018		12	6:57 AM				and / or low / loss of draft	uptakes, door dampers and / or draft
12/9/2018	В	28	7:01 AM	Х	X	8 hr	sole flues blocked	adjusted uptakes and door holes
2/9/2018	В	30	7:01 AM	Х	X	8 hr	sole flues blocked	adjusted uptakes and door holes
2/9/2018	В	34	7:02AM		X	8 hr	sole flues blocked	adjusted uptakes and door holes
12/9/2018	В	35	7:02 AM		X	8 hr	sole flues blocked	adjusted uptakes and door holes
12/9/2018	В	12	7:25 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
14.15	7 - 5 - 5		100 min 110 mi				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/9/2018	В	20	7:26AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
			7.26 414			- AF .	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/0/2015	В	22	7:26 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/9/2018							1 8110 / 01 1049 / 1033 01 01811	
12/9/2018	В	23	7:26AM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,

12/9/2018	В	32	7:26 AM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/10/2018	8	40	12:47 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/10/2018	В	27	12:47 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/11/2018	В	27	12:45 PM		x	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
12/11/2018	В	32	12:45 PM		X	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
12/11/2018	В	36	12:46 PM	11-6	Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draf
12/11/2018	В	62	1:20 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/11/2018	В	36	1:21 PM	×		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/11/2018	В	35	1:21 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/11/2018	В	33	1:21 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/11/2018	В	32	1:21 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
			1 7				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
12/11/2018	В	25	1:22 PM	Х	1000	> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
12/12/2018	В	44	12:48 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
12/12/2018	В	41	12:48 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/12/2018	В	39	12:48 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/12/2018	В	38	12:48 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/12/2018	В	31	12:49 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/12/2018	8	28	12:49 PM	x		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
						A CASTAGORIA	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/12/2018	В	24	12:49 PM	X		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
12/13/2018	В	37	6:00AM	X		8 hr 8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
12/13/2018	В	64	6:01 AM	X		8 hr	sole flues plugged	adjusted uptakes
12/13/2018	В	6	7:12 AM	X		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
12/14/2018	В	40	12:02 PM	X		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
	al lear						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/14/2018	В	29	12:02 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra- contacted CCR, adjusted sole flues
12/14/2018	В	22	12:03 PM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	uptakes, door dampers and / or dra
12/14/2018	В	21	12:03 PM	X		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or draw
12/14/2018	В	16	12:03 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or dra
12/14/2018	В	6	2:00 PM		х	8 hr	sole flues plugged	adjusted uptakes
12/14/2018	В	31	2:01 PM	LUA.	X	8 hr	sole flues plugged	adjusted uptakes
12/14/2018	В	60	2:02 PM		х	8 hr	sole flues plugged	adjusted uptakes
12/15/2018	В	63	7:18 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/15/2018	В	62	7:18 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/15/2018	В	25	7:19 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
	25/11						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/15/2018	В	24	7:19 AM	Х		> 15 min	and / or low / loss of draft door not properly sealed due to	uptakes, door dampers and / or draft
12/15/2018	D	41	7:27 AM	X		3 hr 33 min	lintel damage	adjusted sole flues and dampers
12/15/2018	D	3	7:27 AM	Х		3 hr 33 min	low draft	adjusted sole flues and dampers
12/16/2018	8	43	7:28 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or dra
12/16/2018	В	38	7:28 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or drai

12/16/2018	В	32	7:29 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/16/2019	В	31	7:29AM	х		> 15 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/16/2018				^			and / or low / loss of draft	uptakes, door dampers and / or draft
12/16/2018	В	31	7:29 AM 7:29 AM		X	8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/16/2018	В	28	7:56 AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/16/2018	В	41	7:59 AM		x	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
							plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/16/2018	В	44	7:59 AM		х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/17/2018	В	60	7:09AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/17/2018	В	59	7:09 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/17/2018	В	47	7:09 AM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				1		No. of the State o	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/17/2018	В	45	7:09 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/17/2018	В	40	7:09 AM	х	11 11	> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low/ loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/17/2018	В	35	7:09 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
12/17/2018	В	33	7:10AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,-,		55	7.120				and / or low / loss of draft	uptakes, door dampers and / or draft
12/17/2018	В	12	7:10 AM	Х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/10/2010	В	39	7:14AM	х	1 1 1	> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/18/2018	В	39	7:14AIVI	^	- /4	> 13 111111	and / or low / loss of draft	uptakes, door dampers and / or draft
12/18/2018	В	24	7:15 AM	х	24	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/10/2010	,	22	7.15 444	v	1000	. 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/18/2018	В	22	7:15 AM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/18/2018	В	21	7:15 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
		20	7.45.444			45.45	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/18/2018	В	20	7:15AM	X		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/18/2018	В	19	7:15 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
40/40/0040			42.25.004				plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/19/2018	В	6	12:26 PM		Х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	22	12:28 PM		x	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
	TIE.	-					plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/19/2018	В	27	12:28 PM		х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	32	12:29 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/19/2018	В	41	12:32 PM		х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	62	12:33 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/19/2018	В	64	12:33 PM		х	> 45 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	65	1:07 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
	19.00						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/19/2018	В	64	1:07 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	62	1:07 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12,13,2020			1.07 1 101	~		7 23 11111	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	36	1:08 PM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/19/2018	В	32	1:08 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,	_	-	2.00 / 101			- 25 (7)	and / or low / loss of draft	uptakes, door dampers and / or draft
12/19/2018	В	25	1:09 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/19/2018	В	6	1:10 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
,,		-	1.107 1	^		~ 13 iiiii	and / or low / loss of draft	uptakes, door dampers and / or draft
12/20/2018	В	40	1:17 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/20/2019	В	20	1-17 DM	v		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/20/2018	ن	38	1:17 PM	Х		> 13 IIIIII	and / or low / loss of draft	uptakes, door dampers and / or draft

12/20/2018	В	37	1:17 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/20/2018	В	35	1:17 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or drai
12/20/2018	В	33	1:17 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
12/20/2018	В	28	1:18 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
	В	63	1:20 PM	x		1	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/21/2018	В	03	1:20 PIVI	^		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/21/2018	В	58	1:20 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
12/21/2018	В	39	1:21 PM	х	47.9	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/21/2018	В	34	1:21 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/21/2018	В	31	1:22 PM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/23/2018	В	59	8:28 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/23/2018	В	42	8:28 AM	х	-	> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
12/23/2018	В	41	8:28 AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
- 18-22-4		No.					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/23/2018	В	40	8:28AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
12/23/2018	В	36	8:28 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
12/22/2010		25	0.20 AM	v	14,100	s 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/23/2018	В	35	8:28 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
12/23/2018	В	34	8:28 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/23/2018	В	32	8:29AM	х	51.0	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue uptakes, door dampers and / or dra
12/23/2018	В	27	8:29AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
12/23/2018	В	25	8:29AM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
	-		1				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/23/2018	В	24	8:29 AM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or dra
12/23/2018	В	23	8:29 AM	Х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/23/2018	В	22	8:29 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/23/2018	В	21	8:29AM	x		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/23/2018	В	19	8:29 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/23/2018	В	16	8:29 AM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues
12/23/2018	В	27	8:43AM		х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/23/2018	В		0.43AW			2 43 IIIIII	and / or low / loss of draft	uptakes, door dampers and / or dra
12/23/2018	В	31	8:43 AM	5.7	X	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/23/2018	В	32	8:43AM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues uptakes, door dampers and / or dra
12/23/2018	В	33	8:43 AM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flue:
12/23/2018	В	36	8:43AM		х	> 45 min	plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/23/2018	В	40	8:46 AM		х	> 45 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or dra contacted CCR, adjusted sole flues
12/23/2018	В	63	8:47 AM		X	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or dra
12/24/2018	В	21	6:00 AM 6:00AM		X	8 hr 8 hr	sole flues plugged	adjusted uptakes
12/24/2018	8	28	6:00AM	Х	A		sole flues plugged	adjusted uptakes
12/24/2018	В	28	6:00AM	X		8 hr 8 hr	sole flues plugged sole flues plugged	adjusted uptakes
12/24/2018	В	39	6:01 AM	x		8 hr	sole flues plugged	adjusted uptakes adjusted uptakes
12/24/2018	В	65	6:02AM	x	х	8 hr	sole flues plugged	adjusted uptakes
12/24/2018	В	43	6:02 AM	X	X	8 hr	sole flues plugged	adjusted uptakes
12/24/2018	В	62	6:02 AM	X		8 hr	sole flues plugged	adjusted uptakes
, _ , ,		64					Tole Haes plugged	anjusten ahtaves

12/25/2018	В	28	6:00AM		X	8 hr	sole flues blocked	adjusted uptakes, door holes
2/25/2018	В	38	6:00 AM	Х	X	8 hr	sole flues blocked	adjusted uptakes, door holes
2/25/2018	В	59	6:00 AM		Х	8 hr	sole flues blocked	adjusted uptakes, door holes
2/26/2018	В	6	12:45 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/26/2018	В	20	12:46 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/26/2018	В	22	12:46 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/26/2018	В	26	12:46 PM		x	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
-	Total Miles						and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/26/2018	В	31	12:49 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2018	В	32	12:49 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/26/2018	В	33	12:49 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/26/2018	В	34	12:49 PM		х	> 45 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
2/26/2018	В	35	12:50 PM		x	> 45 mln	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
						1.512-6-8	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/26/2018	В	37	12:50 PM		Х	> 45 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2018	В	40	12:50 PM		х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/26/2018	В	44	12:53 PM		х	> 45 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/26/2018	В	63	12:54 PM		х	> 45 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				v			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/26/2018	В	58	1:38 PM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/26/2018	В	40	1:39 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2018	В	37	1:39 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/26/2018	В	32	1:39 PM	х	MAG	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/26/2018	В	31	1:39 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
				322			and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
12/26/2018	В	20	1:40 PM	Х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draft contacted CCR, adjusted sole flues,
2/26/2018	В	19	1:40 PM	х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draft
2/26/2018	В	6	1:41 PM	х	1	> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
2/27/2018	В	63	1:48 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/27/2018	В	60	1:48 PM	х		> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
			V2-5				and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
12/27/2018	В	43	1:49 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
12/27/2018	В	39	1:49 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/27/2018	В	36	1:49 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
2/27/2018	В	35	1:50 PM	х	1970	> 15 mln	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
							and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
12/27/2018	В	28	1:50 PM	X		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
2/27/2018	В	21	1:51 PM	Х		> 15 mln	and / or low / loss of draft	uptakes, door dampers and / or draf
2/27/2018	В	27	1:51 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
2/27/2018	В	25	1:51 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,
12/27/2018	В	23	1:51 PM	х		> 15 min	and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
		0 -0					and / or low / loss of draft plugged sole flues, floor drops,	uptakes, door dampers and / or draf contacted CCR, adjusted sole flues,
12/27/2018	В	22	1:51 PM	Х		> 15 min	and / or low / loss of draft	uptakes, door dampers and / or draf
12/28/2018	В	42	1:14 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/28/2018	В	38	1:14 PM	х		> 15 min	plugged sole flues, floor drops,	contacted CCR, adjusted sole flues,

12/28/2018	В	35	1:14 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/28/2018	В	34	1:14 PM	x		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/28/2018	В	27	1:15 PM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/28/2018	В	21	2:00 PM		Х	B hr	sole flues blocked	adjusted uptakes and door holes
12/28/2018	В	43	2:02 PM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/29/2018	В	62	7:23 AM	х		> 15 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/29/2018	В	58	7:23 AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/29/2018	В	33	7:23 AM	x	F 1 13	> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draft
12/29/2018	В	32	7:24AM	х		> 15 min	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/30/2018	В	16	6:00AM	Х	7-1-	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	19	6:00 AM	Х		8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	20	6:00 AM	Х		B hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	22	6:00 AM	Х	Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	23	6:01AM	X	Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	28	6:01AM	Х	Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	29	6:01 AM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	31	6:01 AM	Х		8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	33	6:02 AM		Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	36	6:02 AM	Х	Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	40	6:02 AM	Х	11-11	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	64	6:02 AM	. х	Х	8 hr	sole flues blocked	adjusted uptakes and door holes
12/30/2018	В	31	8:26 AM	1	х	> 45 mln	plugged sole flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/30/2018	В	32	8:26 AM		х	> 45 min	plugged so le flues, floor drops, and / or low / loss of draft	contacted CCR, adjusted sole flues, uptakes, door dampers and / or draf
12/31/2018	В	6	6:00 AM	Х		8 hr	sole flues plugged	adjusted uptakes
12/31/2018	В	29	6:00 AM	Х	Х	8 hr	sole flues plugged	adjusted uptakes
12/31/2018	В	65	6:00 AM	Х	Х	8 hr	sole flues plugged	adjusted uptakes



SunCoke Energy, Inc.

3210 Watling St. MC 2-990 East Chicago, IN 46312 219-378-3900 Phone 219-397-4590 Fax

April 3, 2019

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, IN 46204 – 2251

RE: Annual Compliance Certification – Permit No. T089-30043-00382

In accordance with the general reporting requirements established in Condition B.9(a) of T089-35127-00382, (Part 70 Operating Permit Renewal No. T089-30043-00382), attached you will find Indiana Harbor Coke Company's (IHCC) Part 70 Operating Permit Annual Compliance Certification for the reporting period from January 1, 2018 to December 31, 2018. If you have any questions regarding this report, please contact me at (219) 378-3968 or email me at ilkirby@suncoke.com.

Sincerely,

Jostin L. Kirby

Environmental Manager

cc:

United States Environmental Protection Agency, Region V Air and Radiation Division, Air Enforcement Branch-Indiana (AE-17J) 77 Jackson Boulevard Chicago, IL 60604-3590

Attachments:

Part 70 Operating Permit - Annual Compliance Certification Report for 2018

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE BRANCH 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, IN 46204-2251

PART 70 / FESOP PERMIT- ANNUAL COMPLIANCE CERTIFICATION

This form can be used to satisfy the annual compliance certification requirements for Part 70 sources under 326 IAC 2-7-5, 326 IAC 2-7-6(5)(C) and FESOP

sources under 326 IAC 2-8-5(a)(1)(C).

	SOU	RCE INFORMATION							
1) Source name:	Indiana Harbor Coke Company L.P. – contractor of Arcelor Mittal Steel – Indiana Harbor East								
2) Source address:	3210 Watling Street, MC 2 – 990								
(3) City:	East Chicago (4) State: Indiana (5) Zip code: 4								
6) Mailing address: if different from above)	3210 Watling Street, MC 2 – 990								
(7) Mailing City:	East Chicago	(8) Mailing State:	Indiana	(9) Mailing Zip code:	46312				
(10) Permit numbers:	T089-30043-00382	(11) Reporting Period:	January 1,	2018 to Decembe	r 31, 2018				
(12) Contact person:	Justin L. Kirby (13) Email Address: jlkirby@suncoke.com								
(14) Phone number:	219-378-3968 (15) Fax number: 219-397-4590								
(16) Comments:									

SOURCE COMPLIANCE INFORMATION

(17) CHECK THE BOX NEXT TO EITHER (A) OR (B) BELOW. (The terms "continuous compliance" and "intermittent compliance" are defined on the Definitions page).

(A) This source was in CONTINUOUS COMPLIANCE with all of the permit terms and conditions that impose a work practice or emission standard or requires performance testing, monitoring, record keeping or reporting based on the monitoring methods in the permit.	
(B) This source was in CONTINUOUS COMPLIANCE with all of the permit terms and conditions that impose a work practice or emission standard or requires performance testing, monitoring, record keeping or reporting based on the monitoring methods in the permit, except for the terms and conditions listed in the following table for which the source reported intermittent compliance.	Х

IMPORTANT: If you select option (B), you must complete the following table in which you list any permit terms for which compliance was intermittent during the permit for the reporting period covered by this Compliance Certification.

Source Name: - Indiana Ha	Indiana Harbor Coke Company L rbor East	.P. – contrac	tor of Arcelor Mittal Steel Source Permit Number: T089-30043-00382
Permit Term/ Condition	Description of Permit Condition	*Method Codes	Report Date/Comments
C.5(k)	Fugitive PM Emissions	VE RR	1 st Quarterly Deviation Report 2 nd Quarterly Deviation Report 3 rd Quarterly Deviation Report 4 th Quarterly Deviation Report
D.1.4(a)	Lead Limitation	Calc RR	2 nd Quarterly Deviation Report EORs submitted: May 11, 2018
D.1.5(c)	Particulate Matter (PM) Limit	Calc RR	2 nd Quarterly Deviation Report EORs submitted: May 11, 2018
D.1.6(b)(1)	Fugitive PM Emissions	INSP RR	1st Quarterly Deviation Report 2nd Quarterly Deviation Report 3rd Quarterly Deviation Report 4th Quarterly Deviation Report
D.1.9(a)(5)	SO2 Limit	Calc RR	2 nd Quarterly Deviation Report EORs submitted: May 11, 2018
D.1.9(b)	Daily Venting Limit	Calc RR	2 nd Quarterly Deviation Report EORs submitted: May 11, 2018
D.1.12(a)	Particulate Control	RR RK	1st Quarterly Deviation Report 1st Half Semiannual Compliance Certification submitted on July 20, 2018
D.1.12(b)	Particulate Control	WP RK	1st Quarterly Deviation Report 2nd Quarterly Deviation Report 3rd Quarterly Deviation Report 4th Quarterly Deviation Report 1st Half Semiannual Compliance Certification submitted on July 20, 2018 2nd Half Semiannual Compliance Certification submitted on January 24, 2019

Permit Term/ Condition			Report Date/Comments				
D.1.13 / D1.18	Duct Temperature	RK	1st Quarterly Deviation Report 2nd Quarterly Deviation Report 3rd Quarterly Deviation Report 4th Quarterly Deviation Report				
D.1.16	Parametric Monitoring	INSP RK	1st Quarterly Deviation Report				
E.2.2(c)	NESHAP – Door Leaks	WP RK	1st Quarterly Deviation Report 2nd Quarterly Deviation Report 3rd Quarterly Deviation Report 4th Quarterly Deviation Report 1st Half Semiannual Compliance Certification submitted on July 20, 2018 2nd Half Semiannual Compliance Certification submitted on January 24, 2019				
E.2.2(c)	NESHAP – Common Tunnel Pressure	WP RK	1st Quarterly Deviation Report 2nd Quarterly Deviation Report 4th Quarterly Deviation Report 1st Half Semiannual Compliance Certification submitted on July 20, 2018 2nd Half Semiannual Compliance Certification submitted on January 24, 2019				

*Method Codes:

Monitoring methods: CEMS = continuous emissions monitoring system; COMS = continuous opacity monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of the continuous emissions monitoring system; RC = visible emissions monitoring system; RC = visible emissions monitoring system; RC = visible emissi records; MB = mass balance; EF = emissions factor; Insp = inspections; FA = fuel analysis; WP = work practice; PM = parametric monitoring; Calc = calculations; O = other (specify in Comments)

For Part 70 sources: The submittal by the Permittee requires the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

<u>For FESOP sources:</u> The notification which shall be submitted by the Permittee requires the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.									
Signature:	tatuel to	ât	Title/Position:	General Manager					
Printed Name:	Patrick Nigl		Date:	April 3, 2019					
Phone number:	219-378-3902		Email Address:	pgnigl@suncoke.com					

PLEASE NOTE: YOU MUST EITHER SIGN THIS FORM OR ATTACH THE CERTIFICATION FORM INCLUDED IN YOUR PERMIT.



SunCoke Energy, Inc.

3210 Watling St MC 2-990 East Chicago, IN 46312 219-378-3900 Phone 219-397-4590 Fax

April 3, 2019

United States Environmental Protection Agency, Region V Air and Radiation Division Air Enforcement Branch – Indiana (AE-17J) 77 West Jackson Boulevard Chicago, IL 60604-3590

RE: Annual Compliance Certification - Permit No. T089-30043-00382

Attached you will find Indiana Harbor Coke Company's (IHCC) Part 70 Operating Permit Annual Compliance Certification for the reporting period from January 1, 2018 to December 31, 2018. If you have any questions regarding this report, please contact me at (219) 378-3968 or email me at jlkirby@suncoke.com.

Sincerely,

Justin L. Kirby

Environmental Manager

cc:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, IN 46204 – 2251

Attachments:

Part 70 Operating Permit - Annual Compliance Certification Report for 2018

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE BRANCH 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, IN 46204-2251

PART 70 / FESOP PERMIT- ANNUAL COMPLIANCE CERTIFICATION

This form can be used to satisfy the annual compliance certification requirements for Part 70 sources under 326 IAC 2-7-5, 326 IAC 2-7-6(5)(C) and FESOP sources under 326 IAC 2-8-5(a)(1)(C).

	SOURC	E INFORMATION							
(1) Source name:	Indiana Harbor Coke Company L.P. – contractor of Arcelor Mittal Steel – Indiana Harbor East								
(2) Source address:	3210 Watling Street, MC 2 – 990								
(3) City:	East Chicago (4) State: Indiana (5) Zip code:								
(6) Mailing address: (if different from above)	3210 Watling Street, MC 2 – 990								
(7) Mailing City:	East Chicago	(8) Mailing State:	Indiana	(9) Mailing Zip code:	46312				
(10) Permit numbers:	T089-30043-00382	(11) Reporting Period:	January 1,	2018 to December	r 31, 2018				
(12) Contact person:	Justin L. Kirby (13) Email Address: jlkirby@suncoke.com								
(14) Phone number:	er: 219-378-3968 (15) Fax number: 219-397-4590								
(16) Comments:			·						

SOURCE COMPLIANCE INFORMATION

(17) CHECK THE BOX NEXT TO EITHER (A) OR (B) BELOW. (The terms "continuous compliance" and "intermittent compliance" are defined on the Definitions page).

(A) This source was in CONTINUOUS COMPLIANCE with all of the permit terms and conditions that impose a work practice or emission standard or requires performance testing, monitoring, record keeping or reporting based on the monitoring methods in the permit.	
(B) This source was in CONTINUOUS COMPLIANCE with all of the permit terms and conditions that impose a work practice or emission standard or requires performance testing, monitoring, record keeping or reporting based on the monitoring methods in the permit, except for the terms and conditions listed in the following table for which the source reported intermittent compliance.	Х

IMPORTANT: If you select option (B), you must complete the following table in which you list any permit terms for which compliance was intermittent during the permit for the reporting period covered by this Compliance Certification.

 Indiana Ha 			
Permit Term/ Condition	Description of Permit Condition	*Method Codes	Report Date/Comments
C.5(k)	Fugitive PM Emissions	VE RR	1st Quarterly Deviation Report 2nd Quarterly Deviation Report 3rd Quarterly Deviation Report 4th Quarterly Deviation Report
D.1.4(a)	Lead Limitation	Calc RR	2 nd Quarterly Deviation Report EORs submitted: May 11, 2018
D.1.5(c)	Particulate Matter (PM) Limit	Calc RR	2 nd Quarterly Deviation Report EORs submitted: May 11, 2018
D.1.6(b)(1)	Fugitive PM Emissions	INSP RR	1 st Quarterly Deviation Report 2 nd Quarterly Deviation Report 3 rd Quarterly Deviation Report 4 th Quarterly Deviation Report
D.1.9(a)(5)	SO2 Limit	Calc RR	2 nd Quarterly Deviation Report EORs submitted: May 11, 2018
D.1.9(b)	Daily Venting Limit	Calc RR	2 nd Quarterly Deviation Report EORs submitted: May 11, 2018
D.1.12(a)	Particulate Control	RR RK	1st Quarterly Deviation Report 1st Half Semiannual Compliance Certification submitted on July 20, 2018
D.1.12(b)	Particulate Control	WP RK	1 st Quarterly Deviation Report 2 nd Quarterly Deviation Report 3 rd Quarterly Deviation Report 4 th Quarterly Deviation Report 1 st Half Semiannual Compliance Certification submitted on July 20, 2018 2 nd Half Semiannual Compliance Certification submitted on January 24, 2019

Permit Term/ Condition	Description of Permit Condition	*Method Codes	Report Date/Comments
D.1.13 / D1.18	Duct Temperature	RK	1 st Quarterly Deviation Report 2 nd Quarterly Deviation Report 3 rd Quarterly Deviation Report 4 th Quarterly Deviation Report
D.1.16	Parametric Monitoring	INSP RK	1st Quarterly Deviation Report
E.2.2(c)	NESHAP – Door Leaks	WP RK	1st Quarterly Deviation Report 2nd Quarterly Deviation Report 3rd Quarterly Deviation Report 4th Quarterly Deviation Report 1st Half Semiannual Compliance Certification submitted on July 20, 2018 2nd Half Semiannual Compliance Certification submitted on January 24, 2019
E.2.2(c)	NESHAP – Common Tunnel Pressure	WP RK	1 st Quarterly Deviation Report 2 nd Quarterly Deviation Report 4 th Quarterly Deviation Report 1 st Half Semiannual Compliance Certification submitted on July 20, 2018 2 nd Half Semiannual Compliance Certification submitted on January 24, 2019

*Method Codes:

Monitoring methods: CEMS = continuous emissions monitoring system; COMS = continuous opacity monitoring system; ST = stack test; VE = visible emissions; RK = record keeping; RR = review of records; MB = mass balance; EF = emissions factor; Insp = inspections; FA = fuel analysis; WP = work practice; PM = parametric monitoring; Calc = calculations; O = other (specify in Comments)

For Part 70 sources: The submittal by the Permittee requires the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

<u>For FESOP sources:</u> The notification which shall be submitted by the Permittee requires the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.								
Signature: Title/Position: General Manager								
Printed Name:	Patrick Nigl	T1	Date:	April 3, 2019				
Phone number:	219-378-3902	J	Email Address:	pgnigl@suncoke.com				

PLEASE NOTE: YOU MUST EITHER SIGN THIS FORM OR ATTACH THE CERTIFICATION FORM INCLUDED IN YOUR PERMIT.

Attachment F List of Lightning Stand-downs

Date	Delay	A/B PCM (minutes)	C/D PCM (minutes)	Shift	Lightning Stand Down Start Time	Lightning Stand Down End Time
10/31/2018	Lightning Stand Down	60	60	T1	23:37	00:37
12/01/2018	Lightning Stand Down	60	60	T3	15:33	16:33
12/01/2018	Lightning Stand Down	20	20	Т3	18:43	19:03
12/02/2018	Lightning Stand Down	30	30	T1	03:50	04:20
02/07/2019	Lightning Stand Down	30	30	Т3	15:30	16:00
03/15/2019	Lightning Stand Down	30	0	T3	15:30	16:00
03/26/2019	Lightning Stand Down	90	90	Т3	14:15	15:45

Attachment G List of Coke Oven Leaks Caused by High Winds

Shift	Battery	Oven #	Date	Time Leak Noticed	P/S Leak End Time	P/S Leak Duration (hh:mm)	C/S Leak End Time	C/S Duration (hh:mm)	Crown P/S Leak End Time	Crown P/S Duration (hh:mm)	Crown C/S Leak End Time	Crown C/S Duration (hh:mm)	Wind Direction	Wind Speed (mph)	Wind Related?
1	С	1	11/5/2018	11:00 PM		-	11:01 PM	0:01		-		-	W	29 mph	Υ
1	С	13	11/5/2018	11:10 PM		-	11:11 PM	0:01		-		-	W	29 mph	Υ
3	С	14	11/5/2018	7:49 PM	7:55 PM	0:06		-		-		-	W	29 mph	Υ
3	С	18	11/5/2018	7:49 PM		-	8:03 PM	0:14		-		-	W	29 mph	Υ
2	С	31	11/5/2018	7:00 AM	7:01 AM	0:01		-		-		-	W	29 mph	Υ
3	С	34	11/5/2018	8:30 PM	8:41 PM	0:11		-		-		-	W	29 mph	Υ
1	С	37	11/5/2018	11:32 PM		-	11:33 PM	0:01		-		-	W	29 mph	Υ
3	С	50	11/5/2018	9:00 PM	9:08 PM	0:08		-		-		-	W	29 mph	Υ
1	С	53	11/5/2018	11:50 PM		-	11:51 PM	0:01		-		-	W	29 mph	Υ
3	С	54	11/5/2018	9:00 PM	9:14 PM	0:14		-		-		-	W	29 mph	Υ
2	С	31	11/6/2018	7:00 AM	7:01 AM	0:01		-		-		-	W	46 mph	Υ
1	С	65	11/6/2018	12:02 AM		-	12:03 AM	0:01		-		-	W	46 mph	Υ
2	D	37	11/6/2018	1:00 PM		-	1:20 PM	0:20		-		-	W	47 mph	Υ
1	D	3	11/15/2018	11:01 PM	11:13 PM	0:12		-		-		-	ESE	6 mph	Υ
1	D	31	11/15/2018	11:48 PM	12:00 AM	0:12		-		-		-	ESE	6 mph	Υ
3	С	14	11/25/2018	7:30 PM		-		-		1	7:40 PM	0:10	NE	30-40 mph	Υ
3	С	18	11/25/2018	7:30 PM	7:53 PM	0:23		-		-	8:01 PM	0:31	NE	30-40 mph	Υ
3	С	34	11/25/2018	8:30 PM	9:09 PM	0:39		-		-		-	NE	30-40 mph	Υ
3	С	46	11/25/2018	9:11 PM	9:15 PM	0:04		-		i		-	NE	30-40 mph	Υ
3	D	2	11/25/2018	9:00 PM	9:28 PM	0:28		-		i		-	NE	30-40 mph	Υ
3	D	3	11/25/2018	9:00 PM	9:30 PM	0:30		-		-		-	NE	30-40 mph	Υ
3	D	14	11/25/2018	9:00 PM	9:33 PM	0:33		-		i		-	NE	30-40 mph	Υ
1	С	16	11/26/2018	4:59 AM	5:13 AM	0:14		-		-		-	NE	50 mph	Υ
1	С	32	11/26/2018	4:59 AM	5:10 AM	0:11		-		i		-	NE	50 mph	Υ
2	В	1	11/26/2018	7:40 AM	7:50 AM	0:10		-		i		-	NW	Gusts up to 50 mph	Υ
2	В	3	11/26/2018	7:40 AM	7:50 AM	0:10		-		-		-	NW	Gusts up to 50 mph	Υ
2	В	7	11/26/2018	7:40 AM	7:50 AM	0:10		-		-		-	NW	Gusts up to 50 mph	Υ
2	В	7	1/6/2019	8:30 AM		-	9:16 AM	0:46		-		-	ENE	15 mph	Υ
2	В	3	1/6/2019	8:30 AM		-	9:16 AM	0:46		-		-	ENE	15 mph	Υ
2	В	4	1/9/2019	8:02 AM	8:18 AM	0:16		-		-		-	SE	18.3 mph; gusts up to 33 mph	Υ
2	В	7	1/9/2019	8:02 AM	8:18 AM	0:16		-		-		-	SE	18.3 mph; gusts up to 33 mph	Υ

		1	I	1	11.00	1	1				Π	1	I	I	ı
2	С	36	1/19/2019	8:02 AM	11:00 AM	2:58		-		-		-	NNW	35 mph	Y
2	D	1	1/19/2019	7:00 AM	11:00 AM	4:00		-		-		-	NW	35 MPH	Υ
2	D	2	1/19/2019	7:00 AM	11:00 AM	4:00		-		-		-	NW	35 MPH	Υ
2	D	3	1/19/2019	7:00 AM	11:00 AM	4:00		-		-		-	NW	35 MPH	Υ
2	D	4	1/19/2019	7:00 AM	11:00 AM	4:00		-		-		-	NW	35 MPH	Υ
2	D	5	1/19/2019	7:00 AM	11:00 AM	4:00		-		-		-	NW	35 MPH	Υ
2	D	11	1/19/2019	7:00 AM	11:00 AM	4:00		-		-		-	NW	35 MPH	Υ
2	D	12	1/19/2019	7:00 AM	11:00 AM	4:00		-		-		-	NW	35 MPH	Υ
3	D	1	2/15/2019	12:00 AM		-	12:46 AM	0:45		-		-	W	19 mph; gusts up to 28 mph	Υ
3	D	2	2/15/2019	12:00 AM		-	12:46 AM	0:45		-		-	W	19 mph; gusts up to 28 mph	Υ
3	D	3	2/15/2019	12:00 AM		-	12:46 AM	0:45		-		-	W	19 mph; gusts up to 28 mph	Υ
3	D	4	2/15/2019	12:00 AM		-	12:46 AM	0:45		-		-	W	19 mph; gusts up to 28 mph	Υ
3	D	67	2/15/2019	12:00 AM		-	12:46 AM	0:45		-		-	W	19 mph; gusts up to 28 mph	Υ
3	D	66	2/15/2019	12:00 AM		-	12:46 AM	0:45		-		-	W	19 mph; gusts up to 28 mph	Υ
3	D	65	2/15/2019	12:00 AM		-	12:46 AM	0:45		-		-	W	19 mph; gusts up to 28 mph	Υ
3	D	34	2/15/2019	12:00 AM		-	12:46 AM	0:45		-		-	W	19 mph; gusts up to 28 mph	Υ
2	В	4	2/24/2019	8:04 AM	8:09 AM	0:05		-		-		-	W	32 mph; gusts up to 44 mph	Y
2	В	2	2/24/2019	8:04 AM	8:20 AM	0:16		1		1		-	W	32 mph; gusts up to 44 mph	Υ
2	В	7	3/3/2019	6:50 AM	7:00 AM	0:10		-		-		-	NW	25 mph	Υ
2	В	3	3/3/2019	6:51 AM	6:58 AM	0:07		-		-		-	NW	25 mph	Υ
2	В	1	3/3/2019	6:52 AM	6:59 AM	0:07		-		-		-	NW	25 mph	Υ
2	D	2	3/25/2019	7:08 AM	7:28 AM	0:20		-		-		-	NNE	21 mph	Υ
2	D	3	3/25/2019	7:09 AM	7:30 AM	0:21		-		-		-	NNE	21 mph	Y
2	D	4	3/25/2019	7:10 AM	7:40 AM	0:30		-		_		-	NNE	21 mph	Υ
2	D	12	3/25/2019	7:11 AM	7:42 AM	0:31		-		-		-	NNE	21 mph	Y
2	D	16	3/25/2019	7:12 AM	7:46 AM	0:34		-		_		-	NNE	21 mph	Υ
2	D	56	3/25/2019	7:15 AM	7:33 AM	0:18		-		_		-	NNE	21 mph	Υ
2	D	66	3/25/2019	7:16 AM	7:37 AM	0:21		-		-		-	NNE	21 mph	Υ
2	С	33	3/30/2019	6:30 AM		-		-	1:00 PM	6:30		-	NNE	21 mph	Υ
							1					i	1	1	

2	В	3	3/31/2019	6:55 AM	6:58 AM	0:03		-	=	NW	14	Υ
2	В	7	3/31/2019	7:04 AM	7:35 AM	0:31		-	-	NW	14	Υ

Attachment H

Daily Bypass Venting Percentages

Date	Daily Venting
10/25/2018	9.82%
10/26/2018	15.00%
10/27/2018	15.79%
10/28/2018	16.18%
10/29/2018	12.17%
10/30/2018	8.91%
10/31/2018	3.68%
11/1/2018	3.68%
11/2/2018	3.70%
11/3/2018	3.68%
11/4/2018	3.68%
11/5/2018	3.68%
11/6/2018	3.68%
11/7/2018	3.68%
11/8/2018	3.68%
11/9/2018	7.22%
11/10/2018	13.36%
11/11/2018	5.15%
11/12/2018	5.88%
11/13/2018	5.88%
11/14/2018	5.88%
11/15/2018	5.88%
11/16/2018	5.88%
11/17/2018	5.88%
11/18/2018	5.88%
11/19/2018	7.61%
11/20/2018	5.88%
11/21/2018	5.88%
11/22/2018	5.88%
11/23/2018	5.88%
11/24/2018	5.88%
11/25/2018	7.35%
11/26/2018	8.26%
11/27/2018	8.82%
11/28/2018	8.82%
11/29/2018	8.82%
11/30/2018	2.57%
12/1/2018	2.57%
12/2/2018	2.57%
12/3/2018	2.61%
12/4/2018	4.33%
12/5/2018	2.57%

12/6/2018	4.51%
12/7/2018	2.58%
12/8/2018	2.57%
12/9/2018	2.76%
12/10/2018	2.57%
12/11/2018	4.78%
12/12/2018	2.57%
12/13/2018	2.57%
12/14/2018	2.57%
12/15/2018	2.57%
12/16/2018	2.57%
12/17/2018	2.57%
12/18/2018	2.57%
12/19/2018	2.57%
12/20/2018	4.76%
12/21/2018	2.57%
12/22/2018	2.57%
12/23/2018	2.57%
12/24/2018	2.57%
12/25/2018	2.57%
12/26/2018	2.57%
12/27/2018	2.57%
12/28/2018	2.57%
12/29/2018	2.57%
12/30/2018	2.57%
12/31/2018	2.57%
1/1/2019	2.57%
1/2/2019	2.57%
1/3/2019	2.57%
1/4/2019	2.57%
1/5/2019	2.57%
1/6/2019	2.77%
1/7/2019	2.57%
1/8/2019	2.57%
1/9/2019	2.77%
1/10/2019	2.57%
1/11/2019	2.57%
1/12/2019	2.57%
1/13/2019	2.57%
1/14/2019	2.57%
1/15/2019	2.57%
1/16/2019	2.57%
1/17/2019	2.57%

1/18/2019	1.84%
1/19/2019	1.47%
1/20/2019	1.10%
1/21/2019	1.15%
1/22/2019	0.74%
1/23/2019	0.00%
1/24/2019	0.16%
1/25/2019	3.82%
1/26/2019	0.41%
1/27/2019	0.23%
1/28/2019	0.02%
1/29/2019	0.36%
1/30/2019	9.77%
1/31/2019	0.74%
2/1/2019	0.25%
2/2/2019	0.00%
2/3/2019	0.12%
2/4/2019	0.00%
2/5/2019	0.00%
2/6/2019	0.00%
2/7/2019	0.00%
2/8/2019	0.00%
2/9/2019	0.00%
2/10/2019	0.00%
2/11/2019	0.00%
2/12/2019	0.04%
2/13/2019	0.00%
2/14/2019	0.00%
2/15/2019	0.00%
2/16/2019	0.02%
2/17/2019	0.06%
2/18/2019	0.01%
2/19/2019	0.00%
2/20/2019	0.09%
2/21/2019	1.03%
2/22/2019	0.00%
2/23/2019	0.01%
2/24/2019	0.23%
2/25/2019	0.00%
2/26/2019	0.04%
2/27/2019	1.96%
2/28/2019	0.00%
3/1/2019	0.27%

3/2/2019	0.15%
3/3/2019	0.12%
3/4/2019	0.44%
3/5/2019	0.00%
3/6/2019	0.53%
3/7/2019	1.08%
3/8/2019	0.52%
3/9/2019	2.81%
3/10/2019	7.07%
3/11/2019	6.52%
3/12/2019	7.57%
3/13/2019	9.09%
3/14/2019	6.76%
3/15/2019	6.25%
3/16/2019	6.25%
3/17/2019	6.36%
3/18/2019	6.25%
3/19/2019	6.25%
3/20/2019	4.30%
3/21/2019	5.20%
3/22/2019	6.25%
3/23/2019	6.25%
3/24/2019	6.25%
3/25/2019	6.25%
3/26/2019	6.63%
3/27/2019	4.60%
3/28/2019	5.14%
3/29/2019	6.25%
3/30/2019	6.25%
3/31/2019	6.25%