

June 24, 2024

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

Received
State of Indiana

JUN 26 2024

Dept of Environmental Mgmt
Office of Air Quality

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LG
2

RE: Renewal and Modification
Minor Source Operating Permit (MSOP) M127-40870-00071

To Whom It May Concern:

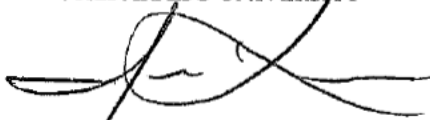
Valparaiso University (VU) requests to modify and renew its Minor Source Operating Permit (MSOP). VU has removed, replaced, and added emission units and identified unpermitted units. An Equipment List is attached. Below is a summary of the changes:

1. Two natural gas heating units were removed in 2024 (building demolished).
2. Six natural gas heating units were replaced with equal or lesser capacity units.
3. Two natural gas heating units were replaced with larger capacity units.
4. Seven new natural gas heating units were installed in 2024.
5. Twenty-three units were identified as previously unpermitted.

Additionally, it was identified during the modification process that the permit issued in 2019 used the heat output capacity for several natural gas units instead of the heat input capacity. The calculations for the natural combustion units were updated and emission changes were determined from the corrected values.

The changes resulted in a 6% increase in emissions for all pollutants. Refer to the PTE Summary Table attached. For technical information, please contact Amy Harvell, Wessler Engineering, at (317) 788-4551 or amyh@wesslerengineering.com. Please contact Jason Kutch, Executive Director of Facilities Management, for additional information at (219) 464-5131 or Jason.Kutch@valpo.edu.

Sincerely,
VALPARAISO UNIVERSITY



Jason Kutch
Executive Director of Facilities Management

Enclosures: Air Permit Application Cover Sheet
GSD-01 Basic Source Level Information
Equipment List
PTE Summary Table

PART B: Pre-Application Meeting

Part 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

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

No Yes

PART D: Certification Of Truth, Accuracy, and Completeness

Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" 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.

Jason Kutch
Name (typed)

Executive Director of Facilities Management
Title

Signature

Date

6/21/2024



**OAQ GENERAL SOURCE DATA APPLICATION
GSD-01: Basic Source Level Information**

State Form 50640 (R6 / 1-10)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Received
State of Indiana

JUN 26 2024

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 on a stationary 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.

127-48009-00071

PART A: Source / Company Location Information

1. Source / Company Name: Valparaiso University		2. Plant ID: 127 – 00071	
3. Location Address: 610 Don Hovey Drive			
City: Valparaiso		State: IN	ZIP Code: 46383 – 5828
4. County Name: Porter County		5. Township Name: Center	
6. Geographic Coordinates:			
Latitude: 41.4633N		Longitude: 87.0424W	
7. Universal Transferred Mercator Coordinates (if known):			
Zone: N/A	Horizontal: N/A	Vertical:	N/A
8. Adjacent States: Is the source located within 50 miles of an adjacent state? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>Indicate Adjacent State(s):</i> <input checked="" type="checkbox"/> Illinois (IL) <input checked="" type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY)			
9. Attainment Area Designation: Is the source located within a non-attainment area for any of the criteria air pollutants? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>Indicate Nonattainment Pollutant(s):</i> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO _x <input checked="" type="checkbox"/> O ₃ <input type="checkbox"/> PM <input type="checkbox"/> PM ₁₀ <input checked="" type="checkbox"/> PM _{2.5} <input type="checkbox"/> SO ₂			
10. Portable / Stationary: Is this a portable or stationary source? <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Stationary			

PART B: Source Summary

11. Company Internet Address (optional): www.valpo.edu
12. Company Name History: Has this source operated under any other name(s)? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Provide information regarding past company names in Part I, Company Name History.</i>
13. Portable Source Location History: Will the location of the portable source be changing in the near future? <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.</i>
14. Existing Approvals: Have any exemptions, registrations, or permits been issued to this source? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>List these permits and their corresponding emissions units in Part M, Existing Approvals.</i>
15. Unpermitted Emissions Units: Does this source have any unpermitted emissions units? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>List all unpermitted emissions units in Part N, Unpermitted Emissions Units.</i>
16. New Source Review: Is this source proposing to construct or modify any emissions units? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List all proposed new construction in Part O, New or Modified Emissions Units.</i>
17. Risk Management Plan: Has this source submitted a Risk Management Plan? <input checked="" type="checkbox"/> Not Required <input type="checkbox"/> No <input type="checkbox"/> Yes → Date submitted: _____ EPA Facility Identifier: – –

PART C: Source Contact Information

IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.

18. Name of Source Contact Person: Aleshia Perkins		
19. Title (optional): Project Coordinator, Facilities Management		
20. Mailing Address: 610 Don Hovey Drive		
City: Valparaiso	State: IN	ZIP Code: 46383 – 5828
21. Electronic Mail Address (optional): aleshia.perkins@valpo.edu		
22. Telephone Number: (219) 464 – 5132	23. Facsimile Number (optional): () –	

PART D: Authorized Individual/Responsible Official Information

IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.

24. Name of Authorized Individual or Responsible Official: Jason Kutch, P.E.		
25. Title: Executive Director of Facilities Management		
26. Mailing Address: 610 Don Hovey Drive		
City: Valparaiso	State: IN	ZIP Code: 46383 – 5828
27. Telephone Number: (219) 464 – 5132	28. Facsimile Number (optional): () –	
29. Request to Change the Authorized Individual or Responsible Official: Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? <i>The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.</i>		
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – Change Responsible Official to:		

PART E: Owner Information

30. Company Name of Owner: Valparaiso University		
31. Name of Owner Contact Person: Jose Padilla, President		
32. Mailing Address: Kretzmann Hall President's Office, 1700 Chapel Drive		
City: Valparaiso	State: IN	ZIP Code: 46383 – 5828
33. Telephone Number: (219) 464 – 5000	34. Facsimile Number (optional): () –	
34. Operator: Does the "Owner" company also operate the source to which this application applies?		
<input type="checkbox"/> No – Proceed to Part F below. <input checked="" type="checkbox"/> Yes – Enter "SAME AS OWNER" on line 35 and proceed to Part G below.		

PART F: Operator Information

35. Company Name of Operator: SAME AS OWNER		
36. Name of Operator Contact Person:		
37. Mailing Address:		
City:	State:	ZIP Code: –
38. Telephone Number: () –	39. Facsimile Number (optional): () –	

PART G: Agent Information

40. **Company Name of Agent:** Wessler Engineering

41. **Type of Agent:** Environmental Consultant Attorney Other (specify):

42. **Name of Agent Contact Person:** Amy Harvell

43. **Mailing Address:** 6219 South East Street

City: Indianapolis	State: IN	ZIP Code: 46227 -
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44. **Electronic Mail Address (optional):** amyh@wesslerengineering.com

45. **Telephone Number:** (317) 788 - 4551

46. **Facsimile Number (optional):** () -

47. **Request for Follow-up:** Does the "Agent" wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination? No Yes

PART H: Local Library Information

48. **Date application packet was filed with the local library:** Mailed 6/24/2024

49. **Name of Library:** Valparaiso Public Library

50. **Name of Librarian (optional):**

51. **Mailing Address:** 103 Jefferson Street

City: Valparaiso	State: IN	ZIP Code: 46383 -
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52. **Internet Address (optional):** pcpls.org

53. **Electronic Mail Address (optional):**

54. **Telephone Number:** (219) 462 - 0524

55. **Facsimile Number (optional):** () -

PART I: Company Name History (if applicable)

Complete this section only if the source has previously operated under a legal name that is different from the name listed above in Section A.

56. Legal Name of Company	57. Dates of Use
	to
	to
	to
	to
	to
	to
	to
	to
	to
	to
	to

58. **Company Name Change Request:** Is the source officially requesting to change the legal name that will be printed on all official documents issued by IDEM, OAQ?

No Yes - **Change Company Name to:**

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
University	Natural Gas Boilers provide hot water and heat to campus buildings.	8221	61131009
University	Natural Gas Generators provide backup energy during power outage.	8221	61131009

PART M: Existing Approvals (if applicable)

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
127-40870-00071	Natural gas boilers/water heaters (84), natural gas emergency generators (11)	8/21/2024

PART N: Unpermitted Emissions Units (if applicable)

Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.

71. Emissions Unit ID	72. Type of Emissions Unit	73. Actual Dates		
		Began Construction	Completed Construction	Began Operation
	See Equipment List			

PART O: New or Modified Emissions Units (if applicable)

Complete this section only if the source is proposing to add new emission units or modify existing emission units.

74. Emissions Unit ID	75. NEW	76. MOD	77. Type of Emissions Unit	78. Estimated Dates		
				Begin Construction	Complete Construction	Begin Operation
			See Equipment List			

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VALPARAISO UNIVERSITY
FACILITIES MANAGEMENT
EQUIPMENT LIST

EQUIPMENT NAME & UNIT INFORMATION	LOCATION	EMISSION UNIT ID#	STACK ID	INPUT CAPACITY MMBTU/HR	INSTALL DATE	MANUF	MODEL	SERIAL	PERMIT DATE	PERMIT ACTIONS
NATURAL GAS HEATING UNIT	ALUMNI HALL	ALUH-1	ALUH-1-S1	2.00	2007	FULTON	PHW-2000	101437	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNIT
NATURAL GAS HEATING UNIT	ALUMNI HALL	ALUH-2	ALUH-2-S1	2.00	2007	FULTON	PHW-2000	101442	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNIT
NATURAL GAS HEATING UNIT	ALUMNI HALL	ALUH-3	ALUH-3-S1	0.745	2024	LOCHINVAR	CWN0747PM	213312560128	06/24/24	RENEWAL/MODIFICATION - NEW EMISSION UNIT
NATURAL GAS HEATING UNIT	ALUMNI HALL	ALUH-4	ALUH-4-S1	0.745	2024	LOCHINVAR	CWN0747PM	2404137408555	06/24/24	RENEWAL/MODIFICATION - NEW EMISSION UNIT
NATURAL GAS HEATING UNIT - REMOVED	ART PSYCHOLOGY BUILDING	APB-1		0.45	2016				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - DEMOLISHED 2024; REMOVE FROM PERMIT
NATURAL GAS HEATING UNIT - REMOVED	ART PSYCHOLOGY BUILDING	APB-2		0.45	2016				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - DEMOLISHED 2024; REMOVE FROM PERMIT
NATURAL GAS HEATING UNIT	ATHLETICS RECREATION CENTER	ARC-1	ARC-1-S1	10.46	1984	AZTEC	5-5-1276	9175	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS HEATING UNIT	ATHLETICS RECREATION CENTER	ARC-2	ARC-2-S1	10.46	1984	AZTEC	5-5-1276	9176	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS WATER HEATER - REPLACED	ATHLETICS RECREATION CENTER	ARC-3 REPLACED		0.51	1989	RAYPAK			8/21/19 06/04/24	NEW SOURCE CONSTRUCTION & MSOP: RAYPAK 0.51 MMBTU/HR RENEWAL/MODIFICATION - REPLACED W/RAYPAK 0.5115; REMOVE
NATURAL GAS WATER HEATER	ATHLETICS RECREATION CENTER	ARC-3	ARC-3-S1	0.5115	2023	RAYPAK		1204338805	06/24/24	RENEWAL/MODIFICATION - REPLACED EXISTING UNIT
NATURAL GAS HEATING UNIT	ARTS AND SCIENCES BUILDING	AS-1	AS-1-S1	1.50	2013	PATTERSON KELLY	C-1500	R717-11-6702	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	ARTS AND SCIENCES BUILDING	AS-2	AS-2-S1	1.50	2013	PATTERSON KELLY	C-1500	R717-11-6704	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	EASTGATE	BASE-1	BASE-1-S1	0.199	2015	A.O. SMITH	HW-200M	1530M000861	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS WATER HEATER	BEACON HALL	BEH-1	BEH-1-S1	1.06	2014	AERCO	INN106	G-13-2509	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	BEACON HALL	BEH-2	BEH-2-S1	1.06	2014	AERCO	INN106	G-13-2510	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	BEACON HALL	BEH-3	BEH-3-S1	2.00	2014	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	BEACON HALL	BEH-4	BEH-4-S1	2.00	2014	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	BRANDT HALL	BRH-1	BRH-1-S1	1.63	2006	RAYPAK	H3-1631	278881	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	BRANDT HALL	BRH-2	BRH-2-S1	1.00	2007	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	BRANDT HALL	BRH-3	BRH-3-S1	2.00	2007	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	BRANDT HALL	BRH-4	BRH-4-S1	2.00	2007	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	CHRISTOPHER CENTER FOR LIBRARY AND INFORMATION SERVICES	CC-1	CC-1-S1	0.61	2013				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	CHRISTOPHER CENTER FOR LIBRARY AND INFORMATION SERVICES	CC-2	CC-2-S1	2.00	2003	AERCO	BENCHMARK 2.0	G-03-0184	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	CHRISTOPHER CENTER FOR LIBRARY AND INFORMATION SERVICES	CC-3	CC-3-S1	2.00	2003	AERCO	BENCHMARK 2.0	G-03-0185	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	CHRISTOPHER CENTER FOR LIBRARY AND INFORMATION SERVICES	CC-4	CC-4-S1	2.00	2003	AERCO	BENCHMARK 2.0	G-03-0186	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS-FIRED HEATING UNIT	CENTER FOR THE SCIENCES	CFS-1	CFS-1-S1	2.00	2017	AERCO	BMK-2000	G-16-1132	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS-FIRED HEATING UNIT	CENTER FOR THE SCIENCES	CFS-2	CFS-2-S1	2.00	2017	AERCO	BMK-2000	G-16-1133	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES

EQUIPMENT NAME & UNIT INFORMATION	LOCATION	EMISSION UNIT ID#	STACK ID	INPUT CAPACITY MMBTU/HR	INSTALL DATE	MANUF	MODEL	SERIAL	PERMIT DATE	PERMIT ACTIONS
NATURAL GAS-FIRED HEATING UNIT	CENTER FOR THE SCIENCES	CFS-3	CFS-3-S1	2.00	2017	AERCO	BMK-2000	G-16-1134	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS-FIRED HEATING UNIT	CENTER FOR THE SCIENCES	CFS-4	CFS-4-S1	2.00	2017	AERCO	BMK-2000	G-16-1139	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS-FIRED HEATING UNIT	CENTER FOR THE SCIENCES	CFS-5	CFS-5-S1	2.00	2017	AERCO	BMK-2000	G-16-1140	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	CONFUCIUS INSTITUTE	COF-1	COF-1-S1	0.13	2012	NEW YORKER	CG50DNI-L2	65366140	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED EMISSION UNIT
NATURAL GAS HEATING UNIT	CHAPEL OF THE RESURRECTION	CR-1	CR-1-S1	1.40	2007	FULTON	PHW-1400		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	CHAPEL OF THE RESURRECTION	CR-2	CR-2-S1	1.40	2007	FULTON	PHW-1400		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	CHAPEL OF THE RESURRECTION	CR-3	CR-3-S1	3.00	2013	ADANCED THERMAL HYDRONIC	KN30 KD	13877	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	CHAPEL OF THE RESURRECTION	CR-4	CR-4-S1	3.00	2013	ADANCED THERMAL HYDRONIC	KN30 KD	13878	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	GELLERSON ENGINEERING & MATH CENTER	GEMC-1	GEMC-1-S1	2.00	2007	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT - REPLACED	GELLERSON ENGINEERING & MATH CENTER	GEMC-2 REPLACED		1.80	2006				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - REPLACED WITH FULTON 1.85; REMOVE
NATURAL GAS HEATING UNIT	GELLERSON ENGINEERING & MATH CENTER	GEMC-2	GEMC-2-S1	1.85	2022	FULTON	EDR-2000	8093-HFTC	06/24/24	RENEWAL/MODIFICATION - REPLACED EXISTING UNIT
NATURAL GAS HEATING UNIT	GELLERSON FITES CENTER	GFC-1	GFC-1-S1	0.75	2011	FULTON	PHW-750		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	GELLERSON FITES CENTER	GFC-2	GFC-2-S1	0.75	2011	FULTON	PHW-750		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	GUILD/MEMORIAL HALL	GMH-1	GMH-1-S1	0.985	2016	LOCHINVAR	CWN0987PM	1643103689354	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED EMISSION UNIT
NATURAL GAS WATER HEATER	GUILD/MEMORIAL HALL	GMH-2	GMH-2-S1	0.985	2016	LOCHINVAR	CWN0987PM	1729106845061	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED EMISSION UNIT
NATURAL GAS HEATING UNIT	GUILD/MEMORIAL HALL	GMH-3	GMH-3-S1	0.406	2018	CLEAVER BROOKS	K810HENEI-L	7738501270	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED EMISSION UNIT
NATURAL GAS HEATING UNIT	GUILD/MEMORIAL HALL	GMH-4	GMH-4-S1	0.406	2024	CLEAVER BROOKS	K810HENEI-L	604168	06/24/24	RENEWAL/MODIFICATION - NEW EMISSION UNIT
NATURAL GAS HEATING UNIT	GUILD/MEMORIAL HALL	GMH-5	GMH-5-S1	0.406	2024	CLEAVER BROOKS	K810HENEI-L	60116102	06/24/24	RENEWAL/MODIFICATION - NEW EMISSION UNIT
NATURAL GAS HEATING UNIT	GUILD/MEMORIAL HALL	GMH-6	GMH-6-S1	0.406	2024	CLEAVER BROOKS	K810HENEI-L		06/24/24	RENEWAL/MODIFICATION - NEW EMISSION UNIT
NATURAL GAS HEATING UNIT	GUILD/MEMORIAL HALL	GMH-7	GMH-7-S1	0.406	2024	CLEAVER BROOKS	K810HENEI-L		06/24/24	RENEWAL/MODIFICATION - NEW EMISSION UNIT
NATURAL GAS WATER HEATER	GUILD/MEMORIAL HALL	GMH-8	GMH-8-S1	0.406	2024	CLEAVER BROOKS	K810HENEI-L		06/24/24	RENEWAL/MODIFICATION - NEW EMISSION UNIT
NATURAL GAS HEATING UNIT	HELGE CENTER	HC-1	HC-1-S1	0.75	2015	AERCO	BMK-750	G-14-1740	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	HELGE CENTER	HC-2	HC-2-S1	0.75	2015	AERCO	BMK-750	G-14-1742	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	HARRE UNION	HU-1	HU-1-S1	2.00	2018	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	HARRE UNION	HU-2	HU-2-S1	2.00	2007	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	HARRE UNION	HU-3	HU-3-S1	2.00	2007	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	HARRE UNION	HU-4	HU-4-S1	2.00	2007	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES

EQUIPMENT NAME & UNIT INFORMATION	LOCATION	EMISSION UNIT ID#	STACK ID	INPUT CAPACITY MMBTU/HR	INSTALL DATE	MANUF	MODEL	SERIAL	PERMIT DATE	PERMIT ACTIONS
NATURAL GAS HEATING UNIT	HARRE UNION	HU-5	HU-5-S1	2.00	2007	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	HARRE UNION	HU-6	HU-6-S1	2.00	2007	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	HARRE UNION	HU-7	HU-7-S1	1.00	2007	FULTON	PDHW-1000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	HARRE UNION	HU-8	HU-8-S1	1.00	2007	FULTON	PDHW-1000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	KADE GERMAN CULTURAL CENTER	KGCC-1	KGCC-1-S1	0.334	2018	RAYPAK	H3-0330A	1805465622	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNITS
NATURAL GAS HEATING UNIT	KADE GERMAN CULTURAL CENTER	KGCC-2	KGCC-2-S1	0.334	2000	RAYPAK	H3-0330A	1008312718	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNITS
NATURAL GAS HEATING UNIT	KALLEY CHRISTOPHER HALL/SCHNABEL HALL	KCSH-1	KCSH-1-S1	0.75	2007	FULTON	PHW-750		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	KALLEY CHRISTOPHER HALL/SCHNABEL HALL	KCSH-2	KCSH-2-S1	0.75	2007	FULTON	PHW-750		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	KRETZMANN HALL	KH-1	KH-1-S1	1.00	2012	FULTON	PHW-1000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	KRETZMANN HALL	KH-2	KH-2-S1	1.00	2012	FULTON	PHW-1000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT - REPLACED	LANKENAU HALL	LAH-1 REPLACED		2.00	2006	FULTON			8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - REPLACED WITH FULTON 1.85; REMOVE
NATURAL GAS HEATING UNIT	LANKENAU HALL	LAH-1	LAH-1-S1	1.85	2021	FULTON	EDR-2000	7905-HFTC	06/24/24	RENEWAL/MODIFICATION - REPLACED EXISTING UNIT
NATURAL GAS HEATING UNIT	LANKENAU HALL	LAH-2	LAH-2-S1	2.00	2007	FULTON	PHW-2000	295062	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	LANKENAU HALL	LAH-3	LAH-3-S1	0.9677	1988	RHEEM/ RUUD	RC962	889105408	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	LANKENAU HALL	LAH-4	LAH-4-S1	0.9677	1988	RHEEM/ RUUD	RC962	889105415	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT - REPLACED	LEBIEN HALL	LEH-1 REPLACED		1.49	1976				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - REPLACED WITH BURNHAM; REMOVE
NATURAL GAS HEATING UNIT	LEBIEN HALL	LEH-1	LEH-1-S1	1.386	2023	BURNHAM	V908A	889105408	06/24/24	RENEWAL/MODIFICATION - REPLACED EXISTING UNIT
NATURAL GAS HEATING UNIT - REPLACED	LEBIEN HALL	LEH-2 REPLACED		1.49	1976				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - REPLACED WITH BURNHAM; REMOVE
NATURAL GAS HEATING UNIT	LEBIEN HALL	LEH-2	LEH-2-S1	1.386	2023	BURNHAM	V908A	889105415	06/24/24	RENEWAL/MODIFICATION - REPLACED EXISTING UNIT
NATURAL GAS WATER HEATER	LEBIEN HALL ANNEX B	LEH-3	LEH-3-S1	0.0751	2018	STATE INDUSTRIAL	SBS-100- 76N3300	100119056	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNIT
NATURAL GAS HEATING UNIT	LINWOOD HOUSE	LIN-1	LIN-1-S1	0.0370	2015	NEW YORKER	CG20D	65468800	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNIT
NATURAL GAS HEATING UNIT	LOKE HALL	LOH-1	LOH-1-S1	0.366	1995	WEIL- MCLAIN	PGF-7-PIN	550-223-125	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	LOKE HALL	LOH-2	LOH-2-S1	0.30	1995	VALIANT	GA200-300 RES KP EI	376-207	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	LOKE HALL	LOH-3	LOH-3-S1	0.30	1995	VALIANT	GA200-300 RES KP EI	376-208	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	MEIER HALL	MEH-1	MEH-1-S1	0.04	2004				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	MEIER HALL	MEH-2	MEH-2-S1	1.00	2007	FULTON	PHW-1000	101010	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	MEIER HALL	MEH-3	MEH-3-S1	1.00	2015	FULTON	PHW-1000	117421	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	MOUND STREET RESIDENCE	MSRH-1	MSRH-1-S1	0.20	1999				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - BUILDING NOT IN USE; NO CHANGES
NATURAL GAS WATER HEATER	MOUND STREET RESIDENCE	MSRH-2	MSRH-2-S1	0.20	1999				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - BUILDING NOT IN USE; NO CHANGES
NATURAL GAS HEATING UNIT	MOUND STREET RESIDENCE	MSRH-3	MSRH-3-S1	0.68	1991				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - BUILDING NOT IN USE; NO CHANGES
NATURAL GAS HEATING UNIT - REPLACED	MUELLER HALL	MUH-1 REPLACED		0.04	2017				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - REPLACED WITH FULTON 1.0; REMOVE

EQUIPMENT NAME & UNIT INFORMATION	LOCATION	EMISSION UNIT ID#	STACK ID	INPUT CAPACITY MMBTU/HR	INSTALL DATE	MANUF	MODEL	SERIAL	PERMIT DATE	PERMIT ACTIONS
NATURAL GAS HEATING UNIT	MUELLER HALL	MUH-1	MUH-1-S1	1.00	2019	FULTON	EDR-1000	122008	06/24/24	RENEWAL/MODIFICATION - REPLACED EXISTING UNIT
NATURAL GAS HEATING UNIT - REHEAT	MUELLER HALL	MUH-2	MUH-2-S1	0.75	2004	THERMAL SOLUTIONS	EVHM-750	64640521	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT - REPLACED	MUELLER HALL	MUH-3 REPLACED		1.80	2006				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - REPLACED WITH FULTON 1.0; REMOVE
NATURAL GAS HEATING UNIT	MUELLER HALL	MUH-3	MUH-3-S1	1.00	2007	FULTON	PHW-1000		06/24/24	RENEWAL/MODIFICATION - REPLACED EXISTING UNIT
NATURAL GAS STEAM HEAT - REPLACED	NEIL SCIENCE CENTER	NSC-1 REPLACED		10.04	1966	KEWANEE			8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - REPLACED WITH CROWN 1.89 AND SEVERAL SMALLER UNITS (NSC 1-8); REMOVE
NATURAL GAS STEAM HEAT	NEIL SCIENCE CENTER	NSC-1	NSC-1-S1	1.89	2023	CROWN	24-11		06/24/24	RENEWAL/MODIFICATION - REPLACED EXISTING UNIT
NATURAL GAS STEAM HEAT	NEIL SCIENCE CENTER	NSC-2	NSC-2-S1	1.89	2023	CROWN	24-11		06/24/24	RENEWAL/MODIFICATION - UNPERMITTED
NATURAL GAS STEAM HEAT	NEIL SCIENCE CENTER	NSC-3	NSC-3-S1	1.50	2023	CLEAVER BROOKS	CFC-E	604369300621	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED
NATURAL GAS STEAM HEAT	NEIL SCIENCE CENTER	NSC-4	NSC-4-S1	1.50	2023	CLEAVER BROOKS	CFC-E	604369300622	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED
NATURAL GAS WATER HEATER	NEIL SCIENCE CENTER	NSC-5	NSC-5-S1	0.20	2023	NORITZ	NCC199CDV	2022.08-050724	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED
NATURAL GAS WATER HEATER	NEIL SCIENCE CENTER	NSC-6	NSC-6-S1	0.20	2023	NORITZ	NCC199CDV	2022.08-050719	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED
NATURAL GAS WATER HEATER	NEIL SCIENCE CENTER	NSC-7	NSC-7-S1	0.20	2023	NORITZ	NCC199CDV	2022.04-034775	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED
NATURAL GAS WATER HEATER	NEIL SCIENCE CENTER	NSC-8	NSC-8-S1	0.20	2023	NORITZ	NCC199CDV	2022.04-034792	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED
NATURAL GAS HEATING UNIT	SCHEELE HALL	SCH-1	SCH-1-S1	2.00	2005				8/21/19 06/04/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - BUILDING NOT IN USE; NO CHANGES
NATURAL GAS HEATING UNIT	SCHEELE HALL	SCH-2	SCH-2-S1	2.00	2006				8/21/19 06/04/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - BUILDING NOT IN USE; NO CHANGES
NATURAL GAS WATER HEATER	SCHEELE HALL	SCH-3	SCH-3-S1	0.96	2007	RHEEM	GBCP 0962	207197086	8/21/19 06/04/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - BUILDING NOT IN USE; NO CHANGES
NATURAL GAS WATER HEATER	SORORITY HOUSING	SOR-1	SOR-1-S1	0.06232	2016	STATE INDUSTRIES	GS675YRPDTL	1549A0230813	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNIT
NATURAL GAS WATER HEATER	SORORITY HOUSING	SOR-2	SOR-2-S1	0.06232	2016	STATE INDUSTRIES	GS675YRPDTL	1549A023075	06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNIT
NATURAL GAS WATER HEATER	SORORITY HOUSING	SOR-3	SOR-3-S1	0.06232	2016	STATE INDUSTRIES	GS675YRPDTL		06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNIT
NATURAL GAS WATER HEATER	SORORITY HOUSING	SOR-4	SOR-4-S1	0.06232	2016	STATE INDUSTRIES	GS675YRPDTL		06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNIT
NATURAL GAS WATER HEATER	SORORITY HOUSING	SOR-5	SOR-5-S1	0.06232	2016	STATE INDUSTRIES	GS675YRPDTL		06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNIT
NATURAL GAS WATER HEATER	SORORITY HOUSING	SOR-6	SOR-6-S1	0.06232	2016	STATE INDUSTRIES	GS675YRPDTL		06/24/24	RENEWAL/MODIFICATION - UNPERMITTED UNIT
NATURAL GAS HEATING UNIT	URSHEL HALL	URSH-1	URSH-1-S1	0.75	2007	FULTON	PHW-750		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	URSHEL HALL	URSH-2	URSH-2-S1	0.75	2007	FULTON	PHW-750		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT/HUMIDIFICATION	CENTER FOR THE ARTS	VCFA-1	VCFA-1-S1	0.70	1993	AJAX	SGXED-700	85518	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	CENTER FOR THE ARTS	VCFA-2	VCFA-2-S1	3.082	2017	WEIL-MCLAIN	1088		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	CENTER FOR THE ARTS	VCFA-3	VCFA-3-S1	3.082	2017	WEIL-MCLAIN	1088		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	CENTER FOR THE ARTS	VCFA-4	VCFA-4-S1	0.07	2015				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	CENTER FOR THE ARTS	VCFA-5	VCFA-5-S1	0.08	2015				8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	DUESENBERG WELCOME CENTER	WC-1	WC-1-S1	0.75	2013	AERCO	BMK-750	G-12-2075	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	DUESENBERG WELCOME CENTER	WC-2	WC-2-S1	0.75	2013	AERCO	BMK-750	G-12-2076	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES

EQUIPMENT NAME & UNIT INFORMATION	LOCATION	EMISSION UNIT ID#	STACK ID	INPUT CAPACITY MMBTU/HR	INSTALL DATE	MANUF	MODEL	SERIAL	PERMIT DATE	PERMIT ACTIONS
NATURAL GAS HEATING UNIT	WEHRENBURG HALL	WEH-1	WEH-1-S1	2.00	2006	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	WEHRENBURG HALL	WEH-2	WEH-2-S1	2.00	2006	FULTON	PHW-2000		8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	WEHRENBURG HALL	WEH-3	WEH-3-S1	1.63	1988	RAYPAK	H3-1631	151388	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	WESEMANN HALL	WES-1	WES-1-S1	0.794	1995	WEIL-MCLAIN	976	118533542	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS HEATING UNIT	WESEMANN HALL	WES-2	WES-2-S1	0.794	1995	WEIL-MCLAIN	976	118533543	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS WATER HEATER	WESEMANN HALL	WES-3	WES-3-S1	0.199	2017	STATE INDUSTRIES	SBD81199NE118	1610M000352	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - EU UPDATES
NATURAL GAS EMERGENCY GENERATOR (LIGHTING), 20 KW, 4-STROKE, RICH BURN.	ATHLETICS RECREATION CENTER	ARCGN-1	ARCGN-1-S1	0.07	2003	GENERAC	SG002	207158	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS EMERGENCY GENERATOR (HVAC & LIGHTING), 230 KW, 4-STROKE, LEAN BURN.	CENTER FOR THE SCIENCES	CFSGN-1	CFSGN-1-S1	0.17	2017	GENERAC	SG230	3001505119	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS EMERGENCY GENERATOR (HVAC & LIGHTING), 100 KW, 4-STROKE, RICH BURN.	DICKMEYER HALL	DKMGN-1	DKMGN-1-S1	0.20	1998	ONAN	100GGHD	H908782354	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS EMERGENCY GENERATOR (FIRE SYSTEMS & LIGHTING), 125 KW, 4-STROKE, RICH BURN.	FACILITIES MANAGEMENT	FACGN-1	FACGN-1-S1	0.34	2007	ONAN	GGLA5743759	K050852605	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS EMERGENCY GENERATOR (LIGHTING & TELECOMMUNICATION), 350 KW, 4-STROKE, RICH BURN.	HARRE UNION	HAUGN-1	HAUGN-1-S1	0.34	2008	ONAN	350GFEB	BM071223165	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS EMERGENCY GENERATOR (LIGHTING & DATA CENTER), 130 KW, 4-STROKE, RICH BURN.	KRETMANN HALL	KRTGN-1	KRTGN-1-S1	0.43	2004	GENERAC	4189320300	2077880	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS EMERGENCY GENERATOR (PHONE SWITCHGEAR), 125 KW, 4-STROKE, RICH BURN	LANKENAU HALL	LANGN-1	LANGN-1-S1	0.43	2007	OLYMPIAN	G125G1	OLYG01090	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS EMERGENCY GENERATOR (IT EQUIPMENT), 100 KW, 4-STROKE, RICH BURN	MEMORIAL HALL	MEMGN-1	MEMGN-1-S1	0.44	1996	ONAN	100ENBA	E960606739	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS EMERGENCY GENERATOR (LIGHTING), MUELLER HALL, 50 KW, 4-STROKE, RICH BURN.	MUELLER HALL	MULGN-1	MULGN-1-S1	0.44	1970	KOHLER	55R82	79119829	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS EMERGENCY GENERATOR (WEATHER EQUIPMENT), 130 KW, 4-STROKE, RICH BURN.	SCHNABEL HALL	SCHGN-1	SCHGN-1-S1	0.78	2004	GENERAC	4189320300	2077879	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES
NATURAL GAS EMERGENCY GENERATOR (COMMUNICATIONS), 60 KW, 4-STROKE, LEAN BURN.	POLICE DEPARTMENT	VPDGN-1	VPDGN-1-S1	1.19	2015	GENERAC	SG060	9827705	8/21/19 06/24/24	NEW SOURCE CONSTRUCTION & MSOP RENEWAL/MODIFICATION - NO CHANGES

**VALPARAISO UNIVERSITY
PTE SUMMARY TABLE
RENEWAL AND MODIFICATION FOR EQUIPMENT REPLACEMENT**

EXISTING PERMITTED UNCONTROLLED POTENTIAL TO EMIT

NOTE: THE PM10 AND PM2.5 TOTAL PTE DO NOT MATCH THE EMISSION CALCULATIONS IN APPENDIX A OF THE EXISTING MSOP. AN ERROR MAY HAVE OCCURRED WITH THE FORMULAS IN THE CURRENT PERMIT/TECHNICAL SUPPORT DOCUMENT.

EXISTING EMISSION UNITS	PM	PM10	PM2.5	SO₂	NO_x	VOC	CO	Total HAPs
NATURAL GAS COMBUSTION	0.97	3.88	3.88	0.31	50.99	2.80	42.83	9.61E-01
NATURAL GAS EMERGENCY GENERATORS (4SLB)	0.00	0.00	0.00	0.00	0.29	0.04	0.19	2.44E-02
NATURAL GAS EMERGENCY GENERATORS (4SRB)	0.01	0.02	0.02	0.00	1.92	0.03	3.23	2.79E-02
TOTAL	0.98	3.90	3.90	0.31	53.20	2.87	46.25	1.01
<i>Fugitive Emissions - Paved Roads</i>	1.84	0.37	0.09	-	-	-	-	-
GRAND TOTAL	2.81	4.26	3.99	0.31	53.20	2.87	46.25	1.01

CORRECTED UNCONTROLLED POTENTIAL TO EMIT

NOTE: THE OUTPUT CAPACITIES WERE USED ON SOME OF THE NATURAL GAS COMBUSTION UNITS IN THE 2019 CALCULATIONS INSTEAD OF THE MAXIMUM INPUT CAPACITIES. THIS TABLE CORRECTS THE CAPACITIES AND SHOWS THE CORRECTED EMISSIONS.

CORRECTED EMISSION UNITS	PM	PM10	PM2.5	SO₂	NO_x	VOC	CO	Total HAPs
NATURAL GAS COMBUSTION	1.11	4.44	4.44	0.35	58.40	3.21	49.06	1.09E+00
NATURAL GAS EMERGENCY GENERATORS (4SLB)	0.00	0.00	0.00	0.00	0.29	0.04	0.19	2.44E-02
NATURAL GAS EMERGENCY GENERATORS (4SRB)	0.01	0.02	0.02	0.00	1.92	0.03	3.23	2.79E-02
TOTAL	1.12	4.46	4.46	0.35	60.61	3.28	52.48	1.15
<i>Fugitive Emissions - Paved Roads</i>	1.84	0.37	0.09	-	-	-	-	-
GRAND TOTAL	2.96	4.83	4.55	0.35	60.61	3.28	52.48	1.15

CHANGED EQUIPMENT UNCONTROLLED POTENTIAL TO EMIT

PERMITTED UNITS REMOVED AND REPLACED WITH OTHER UNITS.

REMOVED EMISSION UNITS	PM	PM10	PM2.5	SO₂	NO_x	VOC	CO	Total HAPs
NATURAL GAS COMBUSTION - APB-1	0.00	0.01	0.01	0.00	0.19	0.01	0.16	3.65E-03
NATURAL GAS COMBUSTION - APB-2	0.00	0.01	0.01	0.00	0.19	0.01	0.16	3.65E-03
NATURAL GAS COMBUSTION - ARC-3	0.00	0.02	0.02	0.00	0.22	0.01	0.18	4.13E-03
NATURAL GAS COMBUSTION - GEMC-2	0.01	0.06	0.06	0.00	0.77	0.04	0.65	1.46E-02
NATURAL GAS COMBUSTION - LAH-1	0.02	0.07	0.07	0.01	0.86	0.05	0.72	1.62E-02
NATURAL GAS COMBUSTION - LEH-1	0.01	0.05	0.05	0.00	0.64	0.04	0.54	1.21E-02
NATURAL GAS COMBUSTION - LEH-2	0.01	0.05	0.05	0.00	0.64	0.04	0.54	1.21E-02
NATURAL GAS COMBUSTION - MUH-1	0.00	0.00	0.00	0.00	0.02	0.00	0.01	3.24E-04

REMOVED EMISSION UNITS	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	Total HAPs
NATURAL GAS COMBUSTION - MUH-3	0.01	0.06	0.06	0.00	0.77	0.04	0.65	1.46E-02
NATURAL GAS COMBUSTION - NSC-1	0.08	0.33	0.33	0.03	4.31	0.24	3.62	8.14E-02
TOTAL REMOVED	0.16	0.65	0.65	0.05	8.62	0.47	7.24	0.163

UNITS LISTED WERE EITHER REPLACEMENTS FOR PERMITTED UNITS, UNITS IN NEW BUILDINGS, OR PREVIOUSLY UNPERMITTED AND IDENTIFIED DURING THE RENEWAL PROCESS.

REPLACEMENT/NEW/UNPERMITTED EMISSION UNITS	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	Total HAPs
NATURAL GAS COMBUSTION - ALUH-1	0.02	0.07	0.07	0.01	0.86	0.05	0.72	0.02
NATURAL GAS COMBUSTION - ALUH-2	0.02	0.07	0.07	0.01	0.86	0.05	0.72	0.02
NATURAL GAS COMBUSTION - ALUH-3	0.01	0.02	0.02	0.00	0.32	0.02	0.27	0.01
NATURAL GAS COMBUSTION - ALUH-4	0.01	0.02	0.02	0.00	0.32	0.02	0.27	0.01
NATURAL GAS COMBUSTION - ARC-3	0.00	0.02	0.02	0.00	0.22	0.01	0.18	0.00
NATURAL GAS COMBUSTION - COF-1	0.00	0.00	0.00	0.00	0.06	0.00	0.05	0.00
NATURAL GAS COMBUSTION - GEMC-2	0.02	0.06	0.06	0.00	0.79	0.04	0.67	0.01
NATURAL GAS COMBUSTION - GMH-1	0.01	0.03	0.03	0.00	0.42	0.02	0.36	0.01
NATURAL GAS COMBUSTION - GMH-2	0.01	0.03	0.03	0.00	0.42	0.02	0.36	0.01
NATURAL GAS COMBUSTION - GMH-3	0.00	0.01	0.01	0.00	0.17	0.01	0.15	0.00
NATURAL GAS COMBUSTION - GMH-4	0.00	0.01	0.01	0.00	0.17	0.01	0.15	0.00
NATURAL GAS COMBUSTION - GMH-5	0.00	0.01	0.01	0.00	0.17	0.01	0.15	0.00
NATURAL GAS COMBUSTION - GMH-6	0.00	0.01	0.01	0.00	0.17	0.01	0.15	0.00
NATURAL GAS COMBUSTION - GMH-7	0.00	0.01	0.01	0.00	0.17	0.01	0.15	0.00
NATURAL GAS COMBUSTION - GMH-8	0.00	0.01	0.01	0.00	0.17	0.01	0.15	0.00
NATURAL GAS COMBUSTION - KGCC-1	0.00	0.01	0.01	0.00	0.14	0.01	0.12	0.00
NATURAL GAS COMBUSTION - KGCC-2	0.00	0.01	0.01	0.00	0.14	0.01	0.12	0.00
NATURAL GAS COMBUSTION - LAH-1	0.02	0.06	0.06	0.00	0.79	0.04	0.67	0.01
NATURAL GAS COMBUSTION - LEH-1	0.01	0.05	0.05	0.00	0.60	0.03	0.50	0.01
NATURAL GAS COMBUSTION - LEH-2	0.01	0.05	0.05	0.00	0.60	0.03	0.50	0.01
NATURAL GAS COMBUSTION - LEH-3	0.00	0.00	0.00	0.00	0.03	0.00	0.03	0.00
NATURAL GAS COMBUSTION - LIN-1	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00
NATURAL GAS COMBUSTION - MUH-1	0.01	0.03	0.03	0.00	0.43	0.02	0.36	0.01
NATURAL GAS COMBUSTION - MUH-3	0.01	0.03	0.03	0.00	0.43	0.02	0.36	0.01
NATURAL GAS COMBUSTION - NSC-1	0.02	0.06	0.06	0.00	0.81	0.04	0.68	0.02
NATURAL GAS COMBUSTION - NSC-2	0.02	0.06	0.06	0.00	0.81	0.04	0.68	0.02
NATURAL GAS COMBUSTION - NSC-3	0.01	0.05	0.05	0.00	0.64	0.04	0.54	0.01
NATURAL GAS COMBUSTION - NSC-4	0.01	0.05	0.05	0.00	0.64	0.04	0.54	0.01

REPLACEMENT/NEW/UNPERMITTED EMISSION UNITS	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	Total HAPs
NATURAL GAS COMBUSTION - NSC-5	0.00	0.01	0.01	0.00	0.09	0.00	0.07	0.00
NATURAL GAS COMBUSTION - NSC-6	0.00	0.01	0.01	0.00	0.09	0.00	0.07	0.00
NATURAL GAS COMBUSTION - NSC-7	0.00	0.01	0.01	0.00	0.09	0.00	0.07	0.00
NATURAL GAS COMBUSTION - NSC-8	0.00	0.01	0.01	0.00	0.09	0.00	0.07	0.00
NATURAL GAS COMBUSTION - SOR-1	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00
NATURAL GAS COMBUSTION - SOR-2	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00
NATURAL GAS COMBUSTION - SOR-3	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00
NATURAL GAS COMBUSTION - SOR-4	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00
NATURAL GAS COMBUSTION - SOR-5	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00
NATURAL GAS COMBUSTION - SOR-6	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00
TOTAL ADDED	0.23	0.91	0.91	0.07	11.91	0.66	10.01	0.225

NATURAL GAS COMBUSTION	1.11	4.44	4.44	0.35	58.40	3.21	49.06	1.09
REMOVED NATURAL GAS COMBUSTION	0.16	0.65	0.65	0.05	8.62	0.47	7.24	0.16
ADDED NATURAL GAS COMBUSTION	0.23	0.91	0.91	0.07	11.91	0.66	10.01	0.22
INCREASED EMISSIONS	0.06	0.25	0.25	0.02	3.30	0.18	2.77	0.06
TOTAL	1.17	4.69	4.69	0.37	61.70	3.39	51.83	1.16
% CHANGE	6%	6%	6%	6%	6%	6%	6%	6%

RENEWAL/MODIFIED UNCONTROLLED POTENTIAL TO EMIT

EXISTING EMISSION UNITS	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	Total HAPs
NATURAL GAS COMBUSTION	1.17	4.69	4.69	0.37	61.70	3.39	51.83	1.16
NATURAL GAS EMERGENCY GENERATORS (4SLB)	0.00	0.00	0.00	0.00	0.29	0.04	0.19	0.02
NATURAL GAS EMERGENCY GENERATORS (4SRB)	0.01	0.02	0.02	0.00	1.92	0.03	3.23	0.03
TOTAL	1.18	4.71	4.71	0.37	63.91	3.46	55.24	1.21
<i>Fugitive Emissions - Paved Roads</i>	1.84	0.37	0.09	-	-	-	-	-
GRAND TOTAL	3.02	5.08	4.80	0.37	63.91	3.46	55.24	1.21

JUN 26 2024

WESSLER ENGINEERING

Dept of Environmental Mgmt
Office of Air Quality

LETTER OF TRANSMITTAL

DATE: 6/24/24		JOB NO: 278124
TO: IDEM – Office of Air Quality	FROM: Amy Harvell	
Permits Branch	Wessler Engineering	
100 North Senate Avenue	6219 South East Street	
MC 61-53, Room 1003	Indianapolis, IN 46227	
Indianapolis, IN 46204-2251	PHONE: (317) 788-4551	
	E-MAIL: amyh@wesslerengineering.com	
RE: Valparaiso University – Air Permit Renewal (127-00071)		

LG
2

WE ARE SENDING YOU THE FOLLOWING ITEMS: Attached Under Separate Cover via

COPIES	DATE	NO.	DESCRIPTION
1	6/24/24	1	Cover Letter
1	6/21/24	2	Air Permit Application Cover Sheet
1	6/24/24	3	GSD-01 Basic Source Level Information
1	6/24/24	4	Equipment List
1	6/24/24	5	PTE Summary Table

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit copies for approval
- For your use Approved as noted Submit copies for distribution
- As requested Returned for corrections Return corrected prints
- For review and comment
- For Bids due: _____

REMARKS:

Please contact me if you have questions.

Received by:

Amy Harvell

Copy to: Jason Kutch, Valparaiso University

Name: Amy Harvell
Title: Environmental Services Sr. Project Manager II

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