033-47990-00143
MAI 8093

B PAUL CONSULTING, LLC
PERMITTING | COMPLIANCE | ADVOCACY

June 24, 2024 ***SUBMITTED VIA ELECTRONIC MAIL TO AIRPERMITAPPS@IDEM.IN.GOV***
SUBMITTED VIA USPS PRIORITY MAIL

Received
State of Indiana
JUN 25 2024
Dept of Environmental Mgmt
Office of Air Quality

HC

IDEM Air Permits Administration
ATTN: Incoming Application
100 North Senate Avenue
MC 61-53, IGCN 1003
Indianapolis, IN 46204-2251

RE: APPLICATION FOR SIGNIFICANT PERMIT REVISION TO MSOP 033-45195-00143 – IA BUTLER BIOGAS, LLC

To whom it may concern:

Please find enclosed an original application to the Indiana Department of Environmental Management Office of Air Quality Management for a significant permit modification to Minor Source Operating Permit 033-45195-00143 issued to IA Butler Biogas, LLC for its biogas production facility at 1867 County Road 59 in Butler, Indiana. This permit was revised on July 26, 2023 with Minor Permit Revision 033-46729-00143.

This application addresses three changes being made to the plant site.

1. Removal of the 1.0 scfm natural gas fired pilot flame on the Digester Flare FL-01. Instead of a pilot flame, the flare will be equipped with a continuous spark system.
2. Replacing the biogas upgrading system tailgas flare FL-02 with a natural gas fired thermal oxidizer. Like the tailgas flare, the thermal oxidizer will be used to combust the waste tailgas from the gas upgrading process. This gas consists primarily of CO2, CO, H2S, and traces of methane. The composition of the tailgas has not changed – instead IA Butler has chosen to use a thermal oxidizer to burn off the tailgas instead of a flare. The thermal oxidizer will be equipped with a 0.5 MMBtu/hr natural gas fired burner to assist in maintaining appropriate combustion temperatures.
3. Changing the specifications for boiler B-01 from a 1.2 MMBtu/hr natural gas/propane unit to a capacity of 3.0 MMBtu/hr and natural gas as the only fuel.

Because the unlimited Potential to Emit (PTE) of the new thermal oxidizer and the new boiler is greater than 25 tons per year for sulfur dioxide, these changes should be processed through a Significant Permit Revision. Appendix A of this application is the updated PTE calculations for all the emission units at the site.

These changes do not cause any applicable requirements cited in the permit to change, nor do the changes trigger new applicable requirements.

The only changes needed to the permit are updates to the emission unit descriptions in Condition A.2 which are described below. (The changes made to the boiler B-01 should also be made in the emission unit description box in Section D.1 of the permit.)

New text is highlighted in bold, underlined font and text which should be deleted is shown with bold, strikethrough font.

A.2 Emission Units and Pollution Control Equipment Summary

This stationary source consists of the following emission units and pollution control devices:

(a) Two (2) anaerobic digesters, identified as DIG-01 and DIG-02, each approved for construction in 2023, each with a maximum capacity of 1,037,664 gallons, and each using no controls.

(b) One (1) digester gas flare, identified as FL-01, approved in 2022 for construction, with a maximum capacity of 110 scfm raw biogas, using no control, ~~**equipped with a natural gas-fired pilot flame with a maximum capacity of 1.0 scfm,**~~ and exhausting outdoors.

(c) One (1) biogas upgrading system tailgas **thermal oxidizer, identified as TO-01, approved in 2024 for construction,** ~~**flare, identified as FL-02, approved in 2022 for construction,**~~ with a maximum capacity of 40 scfm tailgas, using no control, equipped with a natural gas-fired **burner**~~**pilot flame**~~ with a maximum capacity of **0.5 MMBtu/hr**~~**1.0 scfm**~~, and exhausting outdoors.

(d) One (1) natural gas-fired or propane-fired boiler, identified as B-01, approved in **2024**~~**2022**~~ for construction, with a maximum heat input capacity of **3.0**~~**1.2**~~ MMBtu per hour, using no control, and exhausting to the stack B-01.

(e) Unpaved roads and parking lots with public access.

No other changes are needed to the MSOP. No NSPS or NESHAP rules are triggered by these changes and the changes do not impact any IDEM rules.

This submittal also includes three IDEM permit application forms: the Application Cover Sheet, GSD-01 and GSD-15.

If you need any additional information, please contact me at (317) 344-9730 or by email at bernie@bpaulconsulting.com.

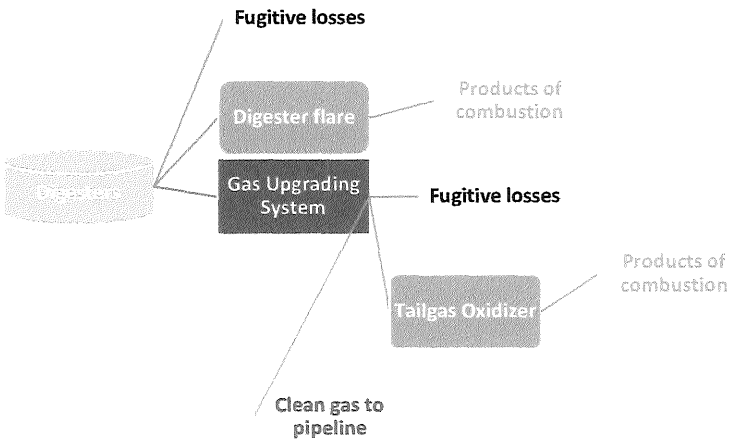
Sincerely,

Bernard Paul
President, B Paul Consulting, LLC

Appendix A: Attachment A-1
IA Butler Biogas, LLC
Application for Significant Permit Modification
Site Summary

Unlimited PTE											
	CO	NOx	PM	PM10	PM2.5	SO2	VOC	H2S	Single HAP		Total HAPs
Biogas fugitives								0.31			
Digester flare (FL-01)	0.04	0.04	0.01	0.01	0.01	1.62	0.14		0.0014	Ethylbenzene	0.0025
Gas upgrading system											
Without thermal oxidizer								15.04			
With thermal oxidizer TO-01	0.23	0.27	0.00	0.02	0.02	28.28	0.01		0.0050	Hexane	0.0050
Higher scenario	0.23	0.27	0.00	0.02	0.02	28.28	0.01	15.04	0.0050	Hexane	0.0050
Boiler B-01	1.08	1.29	0.020	0.10	0.10	0.01	0.07		0.0232	Hexane	0.0233
Unpaved surfaces			0.16	0.04	0.00						
Total Unlimited PTE	**1.35**	**1.60**	**0.19**	**0.17**	**0.13**	**29.91**	**0.22**	**15.35**	**0.0282**	**Hexane**	**0.0308**

Appendix A: Attachment A-2
IA Butler Biogas, LLC
Application for Significant Permit Modification
Biogas Production and Flow



Methodology and Assumptions

Raw biogas yield based on average capacity with +20% adjustment
Raw gas components cfm, mmcf/yr, & ton/yr
  cfm = Biogas yield cfm * component % by volume
  mmcf = Component cfm * 60 min/hr * 8760 hr/yr * mmcf/1,000,000 cf
  ton/yr = Biogas yield cfm * component ppmv/1,000,000 * MW * lb/385.1 ft3 * 60 min/hr * 8760 hr/yr * ton/2000 lb
Biogas MMBtu/yr = Biogas mmcf/yr * 600 MMBtu/mmcf
Fugitive losses = 2% of biogas yield

Digester flare does not utilize a pilot flame
Digester flare burns raw biogas in emergency mode < 500 hours per year
H2S sent to gas upgrading system = H2S sent to tailgas oxidizer
Products of combustion emissions are shown on Flares worksheet

Raw biogas characteristics	Raw biogas	CH4	H2S
% by volume	100%	60.00%	0.60%
ppmv	1,000,000	600,000	6,000
Molecular weight	--	16.04	34.08
Higher heating value (Btu/cf)	600	--	--
Tail gas characteristics	**Tailgas**	**CH4**	**H2S**
% by volume	100%	6.00%	~1.4%
ppmv	1,000,000	60,000	~14,000
Molecular weight	--	16.04	34.08
Higher heating value (Btu/cf)	60	--	--

Biogas Flow

Raw biogas yield	Raw biogas	CH4	H2S
cfm	110	66.00	0.66
mmcf/yr	57.82	34.69	0.35
ton/yr		722.44	15.35
MMBtu/yr	34,692		
Fugitive losses (2%)	**Raw biogas**	**CH4**	**H2S**
cfm	2.20	1.32	0.01
mmcf/yr	1.16	0.69	0.01
ton/yr		14.45	0.31
Sent to emergency flare (500 hours/year)	**Raw biogas**	**CH4**	**H2S**
cfm	107.80	64.68	0.65
mmcf/yr	3.23	1.94	0.02
ton/yr		40.41	0.86
MMBtu/yr	1,940.40		
Sent to gas upgrading system	**Raw biogas**	**CH4**	**H2S**
cfm	107.80	64.68	0.65
mmcf/yr	56.70	34.00	0.30
ton/yr		707.99	15.04
MMBtu/yr	34,020.00		
Tailgas sent to thermal oxidizer	**Tailgas**	**CH4**	**H2S**
cfm	40.00	2.40	
mmcf/yr	21.00	1.30	
ton/yr		--	15.04
MMBtu/yr	1,260.00		

Appendix A: Attachment A-3
IA Butler Biogas, LLC
Application for Significant Permit Modification
Digester Flare

Parameter	Units	Digester flare FL-01 in emergency mode
Raw biogas flow rate to flare	scfm	107.80
Methane flow rate to flare	scfm	64.68
H2S flow rate to flare	tons/yr	0.86
Projected hours per year	hours	500
Annual methane to flare	mmcf/yr	1.94
Annual heat input to flare	MMBtu/year	1,940

Criteria Pollutant	CO	NOx	PM	PM10	PM2.5	SO2	VOC
Emission factor	46.00	39.00	15.00	15.00	15.00	1.88	0.14
Units	lb/MMcf methane	lb/MMcf methane	lb/MMcf methane	lb/MMcf methane	lb/MMcf methane	lb/lb H2S	lb/MMcf methane
PTE (ton/yr)	**0.04**	**0.04**	**0.01**	**0.01**	**0.01**	**1.62**	**0.14**

Hazardous Air Pollutants	Acetal-dehyde	Acrolein	Ethyl-benzene	Formal-dehyde	Hexane	Methanol	Total HAPs
Emission factor	0.04300	0.01000	1.44400	1.16900	0.02900	0.00000	
Units	lb/MMcf methane	lb/MMcf methane	lb/MMcf methane	lb/MMcf methane	lb/MMcf methane	lb/MMcf methane	
PTE (ton/yr)	**0.0000**	**0.0000**	**0.0014**	**0.0011**	**0.0000**	**0.0000**	**0.0025**

Assumptions and references:

Biogas =60% methane by volume and one (1) cubic foot of biogas has a heat capacity of 600 Btu.

CO, NOx, PM, PM10, and PM2.5 emission factors are from 2008 draft AP-42, Chapter 2.4 - Municiapal Solid Waste Landfills, Table 2.4-4 (for control by Flare).

Assumed PM = PM10 = PM2.5

Table 2.4-4 emission factors are expressed in lb per mmcf methane

The SO2 emission factor of 1.88 lb SO2/lb H2S is based on converting all HS2 in digester gas to SO2 at rate of 32 lb S/34 lb H2S * 64 lb SO2/32 lb S

VOC emission factor is from AP-42, Chapter 13.5 - Industrial Flares, Table 13.5-1

HAP emission factors from Ventura County Air Pollution Control District guidance document AB 2588 Combustion Emission Factors (http://www.vcapcd.org/pubs/Engineering/AirToxics/combem.pdf)

Used by San Joaquin Valley APCD in digester flare emission calculations (http://www.valleyair.org/busind/pto/emission_factors/Criteria/Toxics/External%20Combustion/DairyGasExternalCombustion.xls)

Methodology:

For pollutants with lb/MMBtu emission factors

ton/year = emission factor in lb/MMBtu * Digester gas MMBtu/year * ton/2000 lb

For pollutants with lb/MMcf methane emission factors

ton/year = emission factor in lb/mmcf * Methane mmcf/year * ton/2000 lb

For SO2

ton/year = emission factor in lb/lb H2S * amount of H2S sent to flare (tons)

Appendix A: Attachment A-4
IA Butler Biogas, LLC
Application for Significant Permit Modification
Thermal Oxidizer

Parameter	Units	Thermal oxidizer TO-01 capacity
Projected hours per year	hours	8,760
Tailgas		
Tailgas flow to oxidizer	scfm	40.00
Tailgas methane to oxidizer	cfm	2.40
Annual tailgas to oxidizer	mmcf/yr	21.02
Annual tailgas methane to oxidizer	mmcf/yr	1.26
Annual H2S flow rate to oxidizer	tons/yr	15.04
Supplemental Natural Gas		
Natural gas burner capacity	MMBtu/hr	0.50
Annual natural gas consumed	mmcf/yr	4.29

	CO (ton/yr)	NOx (ton/yr)	PM ton/yr)	PM10 ton/yr)	PM2.5 ton/yr)	SO2	VOC
Emission factor (ton/ton)	***NA***	***NA***	***NA***	***NA***	***NA***	***1.88***	***NA***
Tailgas H2S combustion	NA	NA	NA	NA	NA	28.28	NA
Emission factor (lb/mmcf)	***84***	***100***	***1.9***	***7.6***	***7.6***	***0.6***	***5.5***
Tailgas methane combustion	0.05	0.06	0.00	0.00	0.00	0.00	0.00
Natural gas burner	0.18	0.21	0.00	0.02	0.02	0.00	0.01
Total PTE	**0.23**	**0.27**	**0.00**	**0.02**	**0.02**	**28.28**	**0.01**

	Organic HAPs					Metal HAPs				
	Benzene	Dichloro-benzene	Form-aldehyde	Hexane	Toluene	Cadmium	Chromium	Lead	Manganese	Nickel
Emission factor (lb/mmcf)	***0.0021***	***0.0012***	***0.0075***	***1.8***	***0.0034***	***0.0011***	***0.0014***	***0.00026***	***0.00038***	***0.0021***
Combined units	0.0000	0.0000	0.0000	0.0050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Highest single HAP	0.0050	Hexane
Total HAP	0.0050	

Assumptions and Methodology

Emission factors for combusting tailgas methane and natural gas are from AP-42 Section 1.4
PM10/PM2.5 emission factor = PM total
PM emission factor = PM filterable
PTE (ton/yr) = Maximum fuel usage (mmcf/yr) * Emission factor (lb/mmcf) * ton/2000 lb
Heat value of natural gas = 1020 MMBtu/mmcf
The SO2 emission factor of 1.88 lb SO2/lb H2S for tailgas H2S combustion is based on converting all HS2 in tailgas gas to SO2 at rate of 32 lb S/34 lb H2S * 64 lb SO2/32 lb S

For pollutants with lb/MMcf methane emission factors
ton/year = emission factor in lb/mmcf * Methane or natural gas mmcf/year * ton/2000 lb
For SO2 emissions from tailgas H2S combustion
ton/year = emission factor in ton/ton H2S * amount of H2S sent to flare (tons)

Appendix A: Attachment A-5
IA Butler Biogas, LLC
Application for Significant Permit Modification
Boiler

			Criteria Pollutant PTE (ton/yr)						
Emission unit	**Heat input (MMBtu/hr)**	**Max fuel usage/yr (mmcf/yr)**	**CO**	**NOx**	**PM**	**PM10**	**PM2.5**	**SO2**	**VOC**
Emission factor (lb/mmcf)			***84***	***100***	***1.9***	***7.6***	***7.6***	***0.6***	***5.5***
Boiler 1	3	25.76	1.08	1.29	0.02	0.1	0.1	0.01	0.07

	Organic HAPs					Metal HAPs				
	Benzene	**Dichloro-benzene**	**Form-aldehyde**	**Hexane**	**Toluene**	**Cadmium**	**Chromium**	**Lead**	**Manganese**	**Nickel**
Emission factor (lb/mmcf)	0.0021	0.0012	0.0075	1.8	0.0034	0.0011	0.0014	0.00026	0.00038	0.0021
	0.0000	0.0000	0.0001	0.0232	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Highest single HAP 0.0232 Hexane
Total HAP 0.0233

Assumptions and Methodology

Natural gas emission factors are from AP-42 Section 1.4
PM10/PM2.5 emission factor = PM total
PM emission factor = PM filterable
PTE (ton/yr) = Maximum fuel usage (mmcf/yr) * Emission factor (lb/mmcf) * ton/2000 lb
Heat value of natural gas 1020 MMBtu/mmcf
Rule 6-2-4 Limit 0.6 MMBtu/hr

Appendix A: Attachment A-6
IA Butler Biogas, LLC
Application for Significant Permit Modification
Unpaved Roads

Vehicle Information

Type	Total trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/yr)
Gas distribution truck (unloaded)	1.0	32.25	32.3	370	0.070	25.6
Gas distribution truck (loaded)	1.0	35.0	35.0	370	0.070	25.6
Totals	**2.0**		**67.3**			**51.2**

Average Vehicle Weight Per Trip = 33.6 tons/trip
Average Miles Per Trip = 0.07 miles/trip

Unmitigated Emission Factor, Ef = k*[(s/12)^a]*[(W/3)^b] (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	6.4	6.4	6.4	% = mean % silt content of unpaved roads (Municipal Solid Waste Landfill, Table 13.2.2-1 of AP-42)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	33.6	33.6	33.6	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = E * [(365 - P)/365] (Equation 2 from AP-42 13.2.2)
Mitigated Emission Factor, Eext = E * [(365 - P)/365]
where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	9.36	2.53	0.25	lb/mile
Mitigated Emission Factor, Eext =	6.16	1.66	0.17	lb/mile

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
Gas distribution truck (unloaded)	0.12	0.03	0.00	0.08	0.02	0.00
Gas distribution truck (loaded)	0.12	0.03	0.00	0.08	0.02	0.00
Totals	**0.24**	**0.06**	**0.01**	**0.16**	**0.04**	**0.00**

Methodology

Total Weight driven per year (ton/year) = [Maximum Weight Loaded (tons/trip)] * [Total trips per year (trip/year)]
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip) / [5280 ft/mile]
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per year (ton/year)] / SUM[Maximum trips per year (trip/year)]
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/year)] / SUM[Maximum trips per year (trip/year)]
Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Unmitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) * (1 - Dust Control Efficiency)

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

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 all 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.

FOR OFFICE USE ONLY

PERMIT NUMBER:

– –

DATE APPLICATION WAS RECEIVED:

Received
State of Indiana
JUN 25 2024
Dept of Environmental Mgmt
Office of Air Quality

1. Tax ID Number: [redacted]

PART A: Purpose of Application

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

2. Source / Company Name: IA Butler Biogas, LLC **3. Plant ID:** 033-00143

4. Billing Address: 6100 Emerald Parkway (ATTN: IGS Legal - Dave Mrowzinski)

City: Dublin **State:** OH **ZIP Code:** 43016

5. Permit Level: ☐ Exemption ☐ Registration ☐ SSOA ☒ MSOP ☐ FESOP ☐ TVOP ☐ PBR

6. Application Summary: *Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.*

☐ Initial Permit ☐ Renewal of Operating Permit ☐ Asphalt General Permit
☐ Review Request ☐ Revocation of Operating Permit ☐ Alternate Emission Factor Request
☐ Interim Approval ☐ Relocation of Portable Source ☐ Acid Deposition (Phase II)
☐ Site Closure ☐ Emission Reduction Credit Registry

☐ Transition (between permit levels) *From:* *To:*

☐ Administrative Amendment: ☐ *Company Name Change* ☐ *Change of Responsible Official*
☐ *Correction to Non-Technical Information* ☐ *Notice Only Change*
☐ *Other (specify):* Correction to descriptive information

☒ Modification: ☒ *New Emission Unit or Control Device* ☒ *Modified Emission Unit or Control Device*
☐ *New Applicable Permit Requirement* ☐ *Change to Applicability of a Permit Requirement*
☐ *Prevention of Significant Deterioration* ☐ *Emission Offset* ☐ *MACT Preconstruction Review*
☐ *Minor Source Modification* ☐ *Significant Source Modification*
☐ *Minor Permit Modification* ☒ *Significant Permit Modification*
☐ *Other (specify):*

7. Is this an application for an initial construction and/or operating permit for a **"Greenfield" Source**? ☐ Yes ☒ No

8. Is this an application for construction of a new emissions unit at an **Existing Source**? ☒ Yes ☐ No

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(35) 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.*

Dave Mrowzinski	Vice President
Name *(typed)*	Title
David Mrowzinski	6-21-2024
Signature	Date

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

State Form 50640 (R5 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Received
State of Indiana
JUN 25 2024
Dept of Environmental Mgmt
Office of Air Quality

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: Source / Company Location Information

1. **Source / Company Name**: IA Butler Biogas, LLC
2. **Plant ID**: 033 – 00143
3. **Location Address**: 1867 CR 59
   - **City**: Butler
   - **State**: IN
   - **ZIP Code**: 46271 –
4. **County Name**: DeKalb
5. **Township Name**: Franklin
6. **Geographic Coordinates**:
   - **Latitude**: 41.46381561760956 N
   - **Longitude**: 84.90760590200627 W
7. **Universal Transferal Mercadum Coordinates** *(if known)*:
   - **Zone**:
   - **Horizontal**:
   - **Vertical**:
8. **Adjacent States**: Is the source located within 50 miles of an adjacent state?
   ☐ No ☒ Yes – *Indicate Adjacent State(s):* ☐ Illinois (IL) ☒ Michigan (MI) ☒ Ohio (OH) ☐ Kentucky (KY)
9. **Attainment Area Designation**: Is the source located within a non-attainment area for any of the criteria air pollutants?
   ☒ No ☐ Yes – *Indicate Nonattainment Pollutant(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 ☒ Stationary

PART B: Source Summary

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

Continued on Next Page

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: Dave Mrowzinski

19. Title *(optional)*: Vice President

20. Mailing Address: 6100 Emerald Parkway (ATTN: IGS Legal - Dave Mrowzinski)

City: Dublin	**State**: OH	**ZIP Code**: 43016 –

21. Electronic Mail Address *(optional)*: IGS_IGDB_Permits@igs.com

22. Telephone Number: (614) 659 – 5000	**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: Dave Mrowzinski

25. Title: Vice President

26. Mailing Address: 6100 Emerald Parkway (ATTN: IGS Legal - Dave Mrowzinski)

City: Dublin	**State**: OH	**ZIP Code**: 43016 –

27. Telephone Number: (614) 659 – 5000	**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? *The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.*

☐ No ☒ Yes – ***Change Responsible Official to***: Dave Mrowzinski

PART E: Owner Information

30. Company Name of Owner: IA Butler Biogas, LLC

31. Name of Owner Contact Person: Dave Mrowzinski

32. Mailing Address: 6100 Emerald Parkway (ATTN: IGS Legal - Dave Mrowzinski)

City: Dublin	**State**: OH	**ZIP Code**: 43016 –

33. Telephone Number: (614) 659 – 5196	**34. Facsimile Number** *(optional)*: ( ) –

34. Operator: Does the "Owner" company also operate the source to which this application applies?

☐ No – *Proceed to Part F below.*	☒ 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)*: ( ) –

Continued on Next Page

PART G: Agent Information

40. Company Name of Agent: B Paul Consulting, LLC

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

42. Name of Agent Contact Person: Bernard Paul

43. Mailing Address: 285 Spring Drive

City: Zionsville	**State**: IN	**ZIP Code**: 46077 –

44. Electronic Mail Address *(optional)*: bernie@bpaulconsulting.com

45. Telephone Number: (317) 344 – 9730	**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: June 24, 2024

49. Name of Library:

50. Name of Librarian *(optional)*:

51. Mailing Address:

City:	**State**:	**ZIP Code**: –

52. Internet Address *(optional)*:

53. Electronic Mail Address *(optional)*:

54. Telephone Number: ( ) –	**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

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***:

Continued on Next Page

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
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
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–		to
–		to
–		to
–		to
–		to
–		to

PART K: Request to Change Location of Portable Source *(if applicable)*

Complete this section to request a change of location for a portable source.

62. Current Location:

Address:		
City:	**State**:	**ZIP Code**: –
County Name:		

63. New Location:

Address:		
City:	**State**:	**ZIP Code**: –
County Name:		

Continued on Next Page

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
Digester gas production	Biogas	4925/4953	562219

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
45195	Entire source	6/23/2027
46729	Entire source	6/23/2027

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

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 cover letter/narrative			

OAQ GENERAL SOURCE DATA APPLICATION
GSD-15: Government Officials Notified

State Form 51608 (R3 / 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-15 is to identify local government officials that are to be notified that an air permit application has been submitted.
- 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.

Government Officials Notified

Use this table to identify local government officials that should be notified pursuant to Indiana Code (IC) 13-15-3-1 that an air permit application has been submitted. If you need additional space, you may make copies of this form.

1. Name:		**2. Date Notified**: 6/24/2024
3. Title: DeKalb County Commissioners		
4. Address: 100 S Main Street		
City: Auburn	**State**: IN	**ZIP Code**: 46706 –
5. Electronic Mail:	**6. Telephone Number**: ( ) -	
7. Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☒ **Other** *(specify)*: USPS Priority		
Name:		**Date Notified**: 6/24/2024
Title: DeKalb County Council		
Address: 100 S. Main Street		
City: Auburn	**State**: IN	**ZIP Code**: 46706 –
Electronic Mail:	**Telephone Number**: ( ) -	
Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☒ **Other** *(specify)*: USPS Priority		
Name: Mike Hartman		**Date Notified**: 6/24/2024
Title: Mayor, City of Butler		
Address: 215 S Broadway		
City: Butler	**State**: IN	**ZIP Code**: 46721 –
Electronic Mail: mayor@butler.in.us	**Telephone Number**: ( ) -	
Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☒ **Other** *(specify)*: USPS Priority		
Name:		**Date Notified**:
Title:		
Address:		
City:	**State**:	**ZIP Code**: –
Electronic Mail:	**Telephone Number**: ( ) -	
Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		

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JUN 25 2024
Dept of Environmental Mgmt
Office of Air Quality

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See International Mail Manual at *http://pe.usps.com* for availability and limitations of coverage.

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EP14F July 2022
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ZIONSVILLE IN 46077-2024

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SHIP TO: ATTN: INCOMING APPLICATION
IDEM OAQ AIR PERMITS ADMINISTRATION
100 N SENATE AVE
INDIANAPOLIS IN 46204-2273

USPS SIGNATURE TRACKING #

9410 8361 0553 6336 5989 66