



# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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CONSTRUCTION PERMIT GRANT -- OPERATING PERMIT DENIAL

## PERMITTEE

Green Era 83<sup>rd</sup> Street, LLC  
Attn: Erika Allen, President  
218 N. Jefferson Street, Suite 300  
Chicago, Illinois 60661-1307

Application No.: 21060012

I.D. No.: 031600TQW

Applicant's Designation:

Date Received: November 5, 2021

Subject: Anaerobic Digestion Biogas Handling Process

Date Issued: January 11, 2023

Location: 650 West 83<sup>rd</sup> Street, Chicago, Cook County 60620-1937

This permit is hereby granted to the above-designated Permittee to CONSTRUCT emission unit(s) and/or air pollution control equipment consisting of a Liquid and Solid Food Waste Recycling Facility to produce compost and pipeline quality biomethane gas for injection into natural gas pipeline system with the use of Wet Anaerobic Digesters and Biogas Treatment System comprised of the following emission units:

- One (1) 320,000 Gallon Biomass Equalization Tank (T-100);
- One (1) 1,640,000 Gallon Anaerobic Digester Tank (T-105) generating a maximum of 500 scfm Biogas;
- One (1) Biogas Handling and Processing System with two (2) potential operating scenarios:

- Biogas Upgrade (typical) operating scenario controlled by one (1) Thermal Oxidizer (F-330) handling 155-scfm tail gas (and with a maximum capacity of 360-scfm) and one (1) Flare (F-370) handling 226-scfm biomethane (and with a maximum capacity of 800 scfm); or
- Biogas No-Upgrade (contingent) operating scenario controlled by one (1) Flare (F-370) handling 500-scfm biogas (and with a maximum capacity of 800 scfm); and

Waste Handling and Process Equipment controlled by an Ionizer Canon and Carbon Guard Bed System for Odor Control and that contains food waste processing equipment consisting of:

- Two (2) 30,000 Gallon Liquid Food/Wash Water Tanks (T-050A & T-050B);
- One (1) 30,000 Gallon Screened Digestate Tank (T-205);
- Two (2) 14,000 Gallon Polymer Tanks (T-210A & T-210C);
- One (1) 2,000 Gallon Polymer Tank (T-210B)
- One (1) 200 Gallon Floc Tank (T-211);
- Two (2) 30,000 Gallon Filtrate Tanks (T-250A & T-250B);
- One (1) 30,000 Gallon Spare Tank (T-251);

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One (1) 90 Yard<sup>3</sup> Live-Bottom Receiving Bunker (H-062);  
One (1) Separation Mill (S-063);  
One (1) 5,500 Gallon Grit Separation Tank (T-065A);  
One (1) In-Line Solids Removal Screen Press (S-205);  
One (1) Belt Press (Y-211); and

Two (2) 40 Yard<sup>3</sup> Non-Digestible Waste Trash Compactors

pursuant to the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This permit is issued based on the potential to emit (PTE) for Hazardous Air Pollutants (HAPs), as listed in Section 112(b) of the Clean Air Act, from the source being less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs. As a result, this permit is issued based on the emissions of all HAPs from the above-listed equipment not triggering the requirements of Section 112(g) of the Clean Air Act.
- b. This permit is issued based on the construction of the Liquid and Solid Food Waste Recycling Facility not constituting a new major source or major modification pursuant to Title I of the Clean Air Act, specifically 35 Ill. Adm. Code Part 203, Major Stationary Source Construction and Modification. The source will have emissions of Volatile Organic Material (VOM) and Nitrogen Oxides (NO<sub>x</sub>) below the levels that would trigger the applicability of these rules.
- c. This permit is issued based on the construction of the Liquid and Solid Food Waste Recycling Facility not constituting a new major source or major modification pursuant to Title I of the Clean Air Act, specifically 40 CFR 52.21 and 35 Ill. Adm. Code Part 204 (Prevention of Significant Deterioration (PSD)). The source will have emissions of Carbon Monoxide (CO), Particulate Matter (PM), Particulate Matter less than 10 microns (PM<sub>10</sub>), and Sulfur Dioxide (SO<sub>2</sub>) below the levels that would trigger the applicability of these rules.
- d. Operation of the emission units listed above is allowed under this construction permit for a period of twelve (12) months after the initial start-up of the operations at this facility.
- e. Operation of the emission units included in this permit shall not begin until all associated air pollution control equipment has been constructed and is operational.
- 2a. The Biogas Handling and Processing (Upgrade and No-Upgrade) System, Waste Handling and Processing Equipment, and Non-Digestible Waste Trash Compactors, are subject to 35 Ill. Adm. Code Part 212 Subpart B (Visible Emissions). Pursuant to 35 Ill. Adm. Code 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 Ill. Adm. Code 212.122.

- b. Pursuant to 35 Ill. Adm. Code 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 m (1000 ft) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.
- c. This source is subject to 35 Ill. Adm. Code Part 212 Subpart K (Fugitive Particulate Matter). Pursuant to 35 Ill. Adm. Code 212.301, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source.
- d. Pursuant to 35 Ill. Adm. Code 212.302(a), 35 Ill. Adm. code 212.304 through 212.310 and 212.312 shall apply to all mining operations (SIC major groups 10 through 14), manufacturing operations (SIC major groups 20 through 39 except for those operations subject to 35 Ill. Adm. Code Part 212 Subpart S (Grain-Handling and Grain-Drying Operations) that are outside the areas defined in 35 Ill. Adm. Code 212.324(a)(1)), and electric generating operations (SIC group 491), which are located in the areas defined by the boundaries of the following townships, notwithstanding any political subdivisions contained therein, as the township boundaries were defined on October 1, 1979, in the following counties:  
  
Cook: All Townships
- e. Pursuant to 35 Ill. Adm. Code 212.302(b), in the geographical areas defined in 35 Ill. Adm. Code 212.324(a)(1), 35 Ill. Adm. Code 212.304 through 212.310, 212.312, and 212.316 shall apply to all emission units identified in 35 Ill. Adm. Code 212.302(a), and shall further apply to the following operations: grain handling and grain drying (35 Ill. Adm. Code Part 212 Subpart S), transportation, communications, electric, gas, and sanitary services (SIC major groups 40 through 49). Additionally, 35 Ill. Adm. Code 212.304 through 212.310, 212.312, and 212.316 shall apply to wholesale trade farm supplies (SIC Industry No. 5191) located in the vicinity of Calumet City, as defined in 35 Ill. Adm. Code 212.324(a)(1)(C) of this Part.
- f. Pursuant to 35 Ill. Adm. Code 212.316(f), unless an emission unit has been assigned a particulate matter, PM<sub>10</sub>, or fugitive particulate matter emissions limitation elsewhere in 35 Ill. Adm. Code 212.316 or in 35 Ill. Adm. Code Part 212 Subparts R or S, no person shall cause or allow fugitive particulate matter emissions from any emission unit to exceed an opacity of 20 percent.
- g. The Biogas Handling and Processing (Upgrade and No-Upgrade) System, Waste Handling and Processing Equipment, and Non-Digestible Waste Trash

Compactors are subject to 35 Ill. Adm. Code Part 212 Subpart L (Particulate Matter Emissions from Process Emission Units). Pursuant to 35 Ill. Adm. Code 212.321(a), except as further provided in 35 Ill. Adm. Code Part 212, no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 Ill. Adm. Code 212.321(c).

- h. Pursuant to 35 Ill. Adm. Code 212.321(b), interpolated and extrapolated values of the data in 35 Ill. Adm. Code 212.321(c) shall be determined by using the equation:

$$E = A(P)^B$$

where:

P = Process weight rate; and  
 E = Allowable emission rate; and,

- i. Up to process weight rates of 408 Mg/hr (450 T/hr):

	Metric	English
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

- ii. For process weight rate greater than or equal to 408 Mg/hr (450 T/hr):

	Metric	English
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

- i. Pursuant to 35 Ill. Adm. Code 212.321(c), Limits for Process Emission Units for Which Construction or Modification Commenced on or After April 14, 1972:

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lbs/hr
0.05	0.25	0.05	0.55
0.1	0.29	0.10	0.77
0.2	0.42	0.20	1.10
0.3	0.64	0.30	1.35
0.4	0.74	0.40	1.58
0.5	0.84	0.50	1.75

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lbs/hr
0.7	1.00	0.75	2.40
0.9	1.15	1.00	2.60
1.8	1.66	2.00	3.70
2.7	2.1	3.00	4.60
3.6	2.4	4.00	5.35
4.5	2.7	5.00	6.00
9.	3.9	10.00	8.70
13.	4.8	15.00	10.80
18.	5.7	20.00	12.50
23.	6.5	25.00	14.00
27.	7.1	30.00	15.60
32.	7.7	35.00	17.00
36.	8.2	40.00	18.20
41.	8.8	45.00	19.20
45.	9.3	50.00	20.50
90.	13.4	100.00	29.50
140.	17.0	150.00	37.00
180.	19.4	200.00	43.00
230.	22.	250.00	48.50
270.	24.	300.00	53.00
320.	26.	350.00	58.00
360.	28.	400.00	62.00
408.	30.1	450.00	66.00
454.	30.4	500.00	67.00

where:

P = Process weight rate in metric or T/hr, and  
E = Allowable emission rate in kg/hr or lbs/hr.

- j. The Biogas Handling and Processing (Upgrade and No-Upgrade) System, Waste Handling and Processing Equipment, and Non-Digestible Waste Trash Compactors are subject to 35 Ill. Adm. Code 212.324 (Process Emission Units in Certain Areas). Pursuant to 35 Ill. Adm. Code 212.324(b), except as otherwise provided in 35 Ill. Adm. Code 212.324, no person shall cause or allow the emission into the atmosphere, of PM<sub>10</sub> from any process emission unit to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period.
3. The Thermal Oxidizer (F-330) and Flare (F-370) associated with the Biogas Handling and Processing System are subject to 35 Ill. Adm. Code Part 214 Subpart K (Process Emission Sources). Pursuant to 35 Ill. Adm. Code 214.301, except as further provided by 35 Ill. Adm. Code Part 214, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2000 ppm.
- 4a. The Polymer Tanks (T-210A, T-210B & T-210C) and Spare Tank (T-251) are subject to 35 Ill. Adm. Code Part 218 Subpart B (Organic Emissions from Storage And Loading Operations). Pursuant to 35 Ill. Adm. Code 218.122(b), no person shall cause or allow the loading of any organic

material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe or an equivalent device approved by the Illinois EPA according to the provisions of 35 Ill. Adm. Code Part 201, and further processed consistent with 35 Ill. Adm. Code 218.108, or unless such tank is a pressure tank as described in 35 Ill. Adm. Code 218.121(a) or is fitted with a recovery system as described in 35 Ill. Adm. Code 218.121(b) (2).

- b. Biomass Equalization Tank (T-100), Anaerobic Digester Tank (T-105), Screened Digestate Tank (T-205), Filtrate Tanks (T-250A & T-250B), Floc Tank (T-211), Grit Separation Tank (T-065A), and Separation Mill (S-063) are subject to 35 Ill. Adm. Code Part 218 Subpart C (Organic Emissions from Miscellaneous Equipment). Pursuant to 35 Ill. Adm. Code 218.141(a), no person shall use any single or multiple compartment effluent water separator which receives effluent water containing 757 l/day (200 gal/day) or more of organic material from any equipment processing, refining, treating, storing or handling organic material unless such effluent water separator is equipped with air pollution control equipment capable of reducing by 85 percent or more the uncontrolled organic material emitted to the atmosphere. Exception: If no odor nuisance exists the limitations of 35 Ill. Adm. Code 218.141(a) shall not apply if the vapor pressure of the organic material is below 17.24 kPa (2.5 psia) at 294.3°K (70°F).
- c. The Biogas Handling and Processing (Upgrade and No-Upgrade) System is subject to 35 Ill. Adm. Code Part 218 Subpart G (Use of Organic Material). Pursuant to 35 Ill. Adm. Code 218.301, no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 Ill. Adm. Code 218.302, 218.303, or 218.304 and the following exception: If no odor nuisance exists the limitation of 35 Ill. Adm. Code Part 218 Subpart G shall apply only to photochemically reactive material.
- d. Pursuant to 35 Ill. Adm. Code 218.302(a), emissions of organic material in excess of those permitted by 35 Ill. Adm. Code 218.301 are allowable if such emissions are controlled by one of the following methods:  
  
Flame, thermal or catalytic incineration so as either to reduce such emissions to 10 ppm equivalent methane (molecular weight 16) or less, or to convert 85 percent of the hydrocarbons to carbon dioxide and water.
5. This permit is issued based on the Biogas Handling and Processing (Upgrade and No-Upgrade) System at this source not being subject to the New Source Performance Standards (NSPS) for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015, 40 CFR 60 Subpart OOOOa because the Biogas Handling and Processing (Upgrade and No-Upgrade) System is not an affected facility listed in 40 CFR 60.5365a(a) through (j), not located within the Crude Oil and Natural Gas Facilities, as defined

under 40 CFR 60.5430a, and does not produce or process natural gas, as defined in 40 CFR 60.41.

6. This permit is issued based on the Biogas Handling and Processing (Upgrade and No-Upgrade) System at this source not being subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Oil and Natural Gas Production Facilities, 40 CFR 63 Subpart HH because this source is an area source of HAP emissions and the source does not include a triethylene glycol (TEG) dehydration unit.
- 7a. Pursuant to 35 Ill. Adm. Code 212.314, 35 Ill. Adm. Code 212.301 shall not apply and spraying pursuant to 35 Ill. Adm. Code 212.304 through 212.310 and 35 Ill. Adm. Code 212.312 shall not be required when the wind speed is greater than 40.2 km/hr (25 mph). Determination of wind speed for the purposes of 35 Ill. Adm. Code 212.314 shall be by a one-hour average or hourly recorded value at the nearest official station of the U.S. Weather Bureau or by wind speed instruments operated on the site. In cases where the duration of operations subject to 35 Ill. Adm. Code 212.314 is less than one hour, wind speed may be averaged over the duration of the operations on the basis of on-site wind speed instrument measurements.
- b. Pursuant to 35 Ill. Adm. Code 212.324(d), the mass emission limits contained in 35 Ill. Adm. Code 212.324(b) and (c) shall not apply to those emission units with no visible emissions other than fugitive particulate matter; however, if a stack test is performed, 35 Ill. Adm. Code 212.324(d) is not a defense finding of a violation of the mass emission limits contained in 35 Ill. Adm. Code 212.324(b) and (c).
- 8a. This permit is issued based on the Polymer Tanks (T-210A, T-210B & T-210C) and Spare Tank (T-251) at this source not being subject to 35 Ill. Adm. Code 218.120 (Control Requirements for Storage Containers of VOL). Pursuant to 35 Ill. Adm. Code 218.119, the limitations of 35 Ill. Adm. Code 218.120 shall apply to all storage containers of volatile organic liquid (VOL) with a maximum true vapor pressure of 0.5 psia or greater in any stationary tank, reservoir, or other container of 151 cubic meters (40,000 gal) capacity or greater, except to vessels as provided below:

Vessels with storage capacity less than 40,000 gallons must comply with 35 Ill. Adm. Code 218.129(f).
- b. Pursuant to 35 Ill. Adm. Code 218.122(c), if no odor nuisance exists the limitations of 35 Ill. Adm. Code 218.122 shall only apply to the loading of VOL with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3°K (70°F).
- c. This permit is issued based on the Biogas Handling and Processing (Upgrade and No-Upgrade) System at this source not being subject to 35 Ill. Adm. Code Part 218 Subpart TT (Other Emission Units) because the source does not have the potential to emit 25 tons or more of VOM per year.

- 9a. Pursuant to 35 Ill. Adm. Code 212.306, all normal traffic pattern access areas surrounding storage piles specified in 35 Ill. Adm. Code 212.304 and all normal traffic pattern roads and parking facilities which are located on mining or manufacturing property shall be paved or treated with water, oils or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program required by 35 Ill. Adm. Code 212.309, 212.310 and 212.312.
- b. Pursuant to 35 Ill. Adm. Code 212.309(a), the emission units described in 35 Ill. Adm. Code 212.304 through 212.308 and 35 Ill. Adm. Code 212.316 shall be operated under the provisions of an operating program, consistent with the requirements set forth in 35 Ill. Adm. Code 212.310 and 212.312, and prepared by the owner or operator and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions.
- c. Pursuant to 35 Ill. Adm. Code 212.310, as a minimum the operating program shall include the following:
  - i. The name and address of the source;
  - ii. The name and address of the owner or operator responsible for execution of the operating program;
  - iii. A map or diagram of the source showing approximate locations of storage piles, conveyor loading operations, normal traffic pattern access areas surrounding storage piles and all normal traffic patterns within the source;
  - iv. Location of unloading and transporting operations with pollution control equipment;
  - v. A detailed description of the best management practices utilized to achieve compliance with 35 Ill. Adm. Code Part 212 Subpart K, including an engineering specification of particulate collection equipment, application systems for water, oil, chemicals and dust suppressants utilized and equivalent methods utilized;
  - vi. Estimated frequency of application of dust suppressants by location of materials; and
  - vii. Such other information as may be necessary to facilitate the Illinois EPA's review of the operating program.
- d. The Fugitive Particulate Operating Program, as submitted by the Permittee, pursuant to 35 Ill. Adm. Code 212.309, on March 28, 2022 is incorporated herein by reference. The source shall be operated under and shall comply with the provisions of this Fugitive Particulate Operating Program and any amendments to the Fugitive Particulate Operating Program submitted pursuant to Condition 9(b).



- e. Pursuant to 35 Ill. Adm. Code 212.312, the operating program shall be amended from time to time by the owner or operator so that the operating program is current. Such amendments shall be consistent with 35 Ill. Adm. Code Part 212 Subpart K and shall be submitted to the Illinois EPA within thirty (30) days of such amendment for its review. Any future revision to the Fugitive Particulate Operating Program made by the Permittee during the permit term is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the Illinois EPA. In the event that the Illinois EPA notifies the Permittee of a deficiency with any revision to the Fugitive Particulate Operating Program, the Permittee shall be required to revise and resubmit the Fugitive Particulate Operating Program within thirty (30) days of receipt of notification to address the deficiency.
- f. Pursuant to 35 Ill. Adm. Code 212.316(c), no person shall cause or allow fugitive particulate matter emissions from any roadway or parking area to exceed an opacity of 10 percent, except that the opacity shall not exceed 5 percent at quarries with a capacity to produce more than 1 million T/yr of aggregate.
- g. Pursuant to 35 Ill. Adm. Code 212.324(f), for any process emission unit subject to 35 Ill. Adm. Code 212.324(a), the owner or operator shall maintain and repair all air pollution control equipment in a manner that assures that the emission limits and standards in 35 Ill. Adm. Code 212.324 shall be met at all times. 35 Ill. Adm. Code 212.324(f) shall not affect the applicability of 35 Ill. Adm. Code 201.149. Proper maintenance shall include the following minimum requirements:
  - i. Visual inspections of air pollution control equipment;
  - ii. Maintenance of an adequate inventory of spare parts; and
  - iii. Expeditious repairs, unless the emission unit is shutdown.
- 10a. Pursuant to Sections 9(a) and 39(a) of the Act, this source shall be operated under an odor control plan prepared by the Permittee and submitted to the IEPA for its review. The odor control plan shall be designed to significantly reduce odors at the facility. The Permittee shall implement the odor control and monitoring plan and any amendments to the plan submitted pursuant to Condition 10(b). At a minimum, the odor control plan shall include the following:
  - i. A detailed description of the significant and potential fugitive odorant emission sources at the facility.
  - ii. The control measures and best work practices conducted by location for each type of the odorant emission sources.
  - iii. Such other information as may be necessary to facilitate the IEPA's review of the odor control plan.
- b. Pursuant to Section 39(a) of the Act, the odor control plan shall be

amended from time to time by the Permittee so that the plan is current. Such amendments shall be submitted to the IEPA within 30 days of such amendment. Any future revision to the plan made by the Permittee during the permit term is automatically incorporated by reference. In the event that the IEPA notifies the Permittee of a deficiency with any revision to the odor control plan, the Permittee shall be required to revise and resubmit the odor control plan within 30 days of receipt of notification to address the deficiency.

- c. The odor control plan, as submitted to the Illinois EPA by the Permittee on September 22, 2022 is incorporated herein by reference. The document constitutes the formal odor mitigation plan required under Condition 10(a), addressing the control of odorant emissions from the operations at the facility, including the operations of the storage tanks, a variety of odor control devices, properly handling of grit, scum, and sludge, odor recognition training, and routine odor patrol, etc.
  - d. Pursuant to Section 39(a) of the Act, the Permittee shall keep a copy of the odor control plan, any amendments or revisions to the plan (as required by Condition 10(c), and the Permittee shall also keep a record of activities completed according to the odor control plan.
- 11a. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the odor nuisance.
- b. The Thermal Oxidizer (F-330) and Flare (F-370) associated with the Biogas Handling and Processing System shall be in operation at all times with a flame present whenever there is flow to the thermal oxidizer or flare.
  - c. The thermal oxidizer's combustion chamber shall be preheated to at least the manufacturer's recommended temperature but no less than the temperature at which compliance was demonstrated in the most recent compliance test, or 1,400°F in the absence of a compliance test. This temperature shall be maintained during operation of the Biogas Handling and Processing System during the biogas upgrade operating scenario.
  - d. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic maintenance on the Thermal Oxidizer (F-330) and Flare (F-370) associated with the Biogas Handling and Processing System and the Ionizer Canon and Carbon Guard Bed System associated with the Process Building such that the thermal oxidizer, flare, ionizer canon, and carbon guard bed system are kept in proper working condition and not to cause a violation of the Environmental Protection Act or regulations promulgated therein.
  - e. The Thermal Oxidizer (F-330) and Flare (F-370) shall only use natural gas to support combustion and maintain the design operating temperatures. The use of any other fuel as support gas in the thermal oxidizer or flare may require that the Permittee first obtain a

construction permit from the Illinois EPA and perform stack testing to verify compliance with all applicable requirements.

- f. The Flare shall be designed and operated to comply with the following requirements in accordance with good air pollution control practices to minimize emissions:
    - i. The Flare shall be designed for and operated with no visible emissions as determined by USEPA Method 22, except for periods not to exceed a total of 5 minutes during any two (2) consecutive hours.
    - ii. The Flare shall be equipped with instrumentation, which shall be calibrated, maintained, and operated in accordance with the manufacturing specifications, to monitor the presence of the flame when the gas being vented to it and to measure flow to or bypass of the flare.
  - g. The Permittee shall maintain and operate instrumentation to measure the biogas and tail gas flow rate to the gas handling and processing system and throughput for the thermal oxidizer and the flare, in scf.
  - h. The Thermal Oxidizer associated with the Biogas Handling and Processing System (biogas upgrade operating scenario) shall be equipped with a temperature monitoring device and an audible alarm that is installed, calibrated, operated, and maintained, in accordance with vendor/manufacture specifications and 35 Ill. Adm. Code 218.105(d)(2). The audible alarm shall be set to alert the operator when the thermal oxidizer temperature is below the temperature at which compliance was determined in the most recent compliance test, or 1,400°F in the absence of a compliance test.
  - i. The monitoring devices required in Condition 11(h) shall be installed, calibrated, and fully operational prior to initial startup of the biogas upgrade operating scenario of the Biogas Handling and Processing System. The Permittee shall operate the continuous monitoring devices required by Condition 11(h) at all times that the Biogas Handling and Processing (Upgrade) System is in operation.
- 12a. Emissions from and operation of the Biogas Handling and Processing System (biogas upgrade operating scenario) with Thermal Oxidizer (F-330) and Flare (F-370) shall not exceed the following limits:
- i. Emissions from combustion of biomethane in Flare (F-370):

<u>Pollutant</u>	<u>Emission Factors</u> (lb/mmBtu)	<u>Emissions</u>	
		<u>(lbs/Hr)</u>	<u>(Tons/Yr)</u>
Carbon Monoxide (CO)	0.31	4.14	18.14
Nitrogen Oxides (NO <sub>x</sub> )	0.068	0.91	3.98
Volatile Organic Material (VOM)	0.14	1.87	8.19

These limits are based on the maximum 226 scfm of biomethane combusted in the Flare, biomethane heat content of 985 Btu/scf and standard emission factors (Table 13.5-1, AP-42, Fifth Edition, Volume I, February 2018).

- ii. Emissions from combustion of tailgas in Thermal Oxidizer (F-330):

<u>Pollutant</u>	<u>Emission</u>	<u>Emissions</u>	
	<u>Factors</u> <u>(lb/mmBtu)</u>	<u>(lbs/Hr)</u>	<u>(Tons/Yr)</u>
Carbon Monoxide (CO)	0.31	0.57	2.52
Nitrogen Oxides (NO <sub>x</sub> )	0.15	0.28	1.22
Sulfur Dioxide (SO <sub>2</sub> )	3.28	6.07	26.60
Volatile Organic Material (VOM)	0.14	0.26	1.13

These limits are based on the maximum tailgas inlet flowrate (155 scfm), tailgas heat content of 199.1 Btu/scf, NO<sub>x</sub> emission factor provided by the manufacturer, standard emission factors for CO and VOM from (Table 13.5-1, AP-42, Fifth Edition, Volume I, February 2018), and SO<sub>2</sub> emission factor derived based on an assumed H<sub>2</sub>S concentration of 1,500-PPMv in the biogas (and in the inlet to the gas upgrade system).

- b. Emissions from and operation of the Biogas Handling and Processing System (biogas no-upgrade operating scenario) with Flare (F-370) shall not exceed the following limits:

<u>Pollutant</u>	<u>Emission</u>	<u>Emissions</u>	
	<u>Factors</u> <u>(lb/mmBtu)</u>	<u>(lbs/Hr)</u>	<u>(Tons/Yr)</u>
Carbon Monoxide (CO)	0.31	4.46	24.44
Nitrogen Oxides (NO <sub>x</sub> )	0.068	1.22	5.36
Sulfur Dioxide (SO <sub>2</sub> )	0.422	7.59	33.25
Volatile Organic Material (VOM)	0.14	2.52	11.04

These limits are based on the maximum biogas inlet flowrate (500 scfm), biogas heat content of 600 Btu/scf, standard emission factors for NO<sub>x</sub>, CO, and VOM from (Table 13.5-1, AP-42, Fifth Edition, Volume I, February 2018), and SO<sub>2</sub> emission factor derived based on an assumed H<sub>2</sub>S concentration of 1,500-PPMv in the biogas, and stoichiometric conversion to SO<sub>2</sub> by combustion.

- c. This permit is issued based on negligible emissions of Particulate Matter (PM) from the Waste Handling and Processing Equipment and Non-Digestible Waste Trash Compactors. For this purpose, emissions from all such emission units shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year (combined).
- d. This permit is issued based on negligible emissions of Volatile Organic Material (VOM) from Biomass Equalization Tank (T-100), Anaerobic Digester Tank (T-105), Screened Digestate Tank (T-205), Polymer Tanks,

(T-210A, T-201B & T-210C), Spare Tank (T-251), Filtrate Tanks (T-250A & T-250B), Floc Tank (T-211), Grit Separation Tank (T-065A), and Separation Mill (S-063). For this purpose, emissions from all such emission units shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year (combined).

- e. This permit is issued based on negligible emissions of ammonia (NH<sub>3</sub>) and hydrogen sulfide (H<sub>2</sub>S) from the Carbon Bed System associated with the Process Building. For this purpose emissions of each pollutant shall not exceed 0.01 lb/hour and 0.04 Ton/Yr.
  - f. Compliance with the annual limits of this permit shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
13. This permit is issued based on the potential to emit (PTE) for hazardous air pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act being less than 10 tons/year of any single HAP or 25 tons/year of any combination of such HAPs, or such less quantity as USEPA may establish by rule which would require the Permittee to obtain a Clean Air Act Permit Program (CAAPP) permit from the Illinois EPA.
- 14a. Pursuant to 35 Ill. Adm. Code 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
- i. Testing by Owner or Operator. The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. The Illinois EPA may adopt procedures detailing methods of testing and formats for reporting results of testing. Such procedures and revisions thereto, shall not become effective until filed with the Secretary of State, as required by the APA Act. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests.
  - ii. Testing by the Illinois EPA. The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

- b. Testing required by Condition 15 and 16 shall be performed upon a written request from the Illinois EPA by a qualified independent testing service.
- 15a. Pursuant to 35 Ill. Adm. Code 212.107, for both fugitive and nonfugitive particulate matter emissions, a determination as to the presence or absence of visible emissions from emission units shall be conducted in accordance with Method 22, 40 CFR Part 60, Appendix A, except that the length of the observing period shall be at the discretion of the observer, but not less than one minute. 35 Ill. Adm. Code 212 Subpart A shall not apply to 35 Ill. Adm. Code 212.301.
- b. Pursuant to 35 Ill. Adm. Code 212.109, except as otherwise provided in 35 Ill. Adm. Code Part 212, and except for the methods of data reduction when applied to 35 Ill. Adm. Code 212.122 and 212.123, measurements of opacity shall be conducted in accordance with Method 9, 40 CFR Part 60, Appendix A, and the procedures in 40 CFR 60.675(c) and (d), if applicable, except that for roadways and parking areas the number of readings required for each vehicle pass will be three taken at 5-second intervals. The first reading shall be at the point of maximum opacity and second and third readings shall be made at the same point, the observer standing at right angles to the plume at least 15 feet away from the plume and observing 4 feet above the surface of the roadway or parking area. After four vehicles have passed, the 12 readings will be averaged.
  - c. Pursuant to 35 Ill. Adm. Code 212.110(a), measurement of particulate matter emissions from stationary emission units subject to 35 Ill. Adm. Code Part 212 shall be conducted in accordance with 40 CFR Part 60, Appendix A, Methods 5, 5A, 5D, or 5E.
  - d. Pursuant to 35 Ill. Adm. Code 212.110(b), the volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1, 1A, 2, 2A, 2C, 2D, 3, and 4.
  - e. Pursuant to 35 Ill. Adm. Code 212.110(c), upon a written notification by the Illinois EPA, the owner or operator of a particulate matter emission unit subject to 35 Ill. Adm. Code Part 212 shall conduct the applicable testing for particulate matter emissions, opacity, or visible emissions at such person's own expense, to demonstrate compliance. Such test results shall be submitted to the Illinois EPA within thirty (30) days after conducting the test unless an alternative time for submittal is agreed to by the Illinois EPA.
- 16a. Within 180 days of initial startup of the Liquid and Solid Food Waste Recycling Facility the Permittee shall:
- i. Measure and quantify the total reduced sulfur content in the building exhaust before and after the Ionizer Canon and Carbon Bed System, in the biogas before and after the Flare during the no-upgrade operations scenario and in the tail gas before and after the thermal oxidizer during representative operating

conditions. This testing shall be conducted within every five years thereafter.

- ii. Conduct opacity observations for the Biogas Handling and Processing (Upgrade and No-Upgrade) System and associated Thermal Oxidizer and Flare during conditions which are representative of maximum emissions in order to demonstrate compliance with 35 Ill. Adm. Code 212.123 of this permit. Thereafter, this testing shall be conducted once every five (5) years from the preceding testing date.
  - iii. Measure and quantify the emissions of CO (lb/hr), NO<sub>x</sub> (lb/hr), PM (gr/dscf and lb/hr), PM<sub>10</sub> (gr/dscf and lb/hr), SO<sub>2</sub> (lb/hr and ppm), and VOM (lb/hr and ppm) from the Thermal Oxidizer associated with the Biogas Handling and Processing System during the biogas upgrade operating scenario and during conditions which are representative of maximum emissions in order to demonstrate compliance with 35 Ill. Adm. Code 212.321, 214.301, and 218.301, and Conditions 12(a) and (b) of this permit.
- b. The following methods and procedures shall be used for testing of emissions, unless another method is approved by the Illinois EPA: Refer to 40 CFR 60, Appendix A, for USEPA test methods.

Sample and Velocity Traverses for Stationary Sources	USEPA Method 1
Sample and Velocity Traverses for Stationary Sources with Small Stacks or Ducts	USEPA Method 1A
Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)	USEPA Method 2
Direct Measurement of Gas Volume through Pipes and Small Ducts	USEPA Method 2A
Determination of Gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts (Standard Pitot Tube)	USEPA Method 2C
Measurement of Gas Volume Flow Rates in Small Pipes and Ducts	USEPA Method 2D
Gas Analysis for the Determination of Dry Molecular Weight	USEPA Method 3
Gas Analysis for the Determination of Dry Molecular Weight-Instrumental Method	USEPA Method 3A
Determination of Moisture Content in Stack Gases	USEPA Method 4
Determination of Particulate Matter from Stationary Sources	USEPA Method 5
Determination of Sulfur Dioxide from Stationary Sources	USEPA Method 6
Determination of Sulfur Dioxide Emissions from Stationary Sources (Instrumental Analyzer Procedure)	USEPA Method 6C
Determination of Nitrogen Oxide Emissions from Stationary Sources	USEPA Method 7
Visual Determination of the Opacity of Emissions from Stationary Sources	USEPA Method 9
Determination of Carbon Monoxide from Stationary Sources	USEPA Method 10
INSERT METHOD 16 FOR REDUCED SULFUR	USEPA Method 16
Visual Determination of Fugitive Emissions from Material Sources	USEPA Method 22

Determination of Total Gaseous Nonmethane Organic Emissions as Carbon	USEPA Method 25
Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer	USEPA Method 25A*
Determination of PM <sub>10</sub> and PM <sub>2.5</sub> Emissions from Stationary Sources (Constant Sampling Rate Procedure)	USEPA Method 201A
Dry Impinger Method for Determining Condensable Particulate Emissions from Stationary Sources	USEPA Method 202

\* USEPA Method 25A may only be used if outlet VOM concentration is less than 50 ppm as carbon (non-methane).

- c. At least sixty (60) days prior to the actual date of testing, the Permittee shall submit a written test plan to the Illinois EPA, Bureau of Air, Compliance Section Manager. The Illinois EPA may at the discretion of the Compliance Section Manager (or designee) accept a written test plan less than sixty (60) days prior to testing provided it does not interfere with the Illinois EPA's ability to review and comment on the written plan and does not deviate from the applicable state or federal rules and test methods. This plan shall include at a minimum:
- i. The name (or other identification) of the emission unit(s) to be tested and the name and address of the facility at which they are located;
  - ii. The name and address of the independent testing service(s) performing the tests, with the names of the individuals who may be performing sampling and analysis and their experience with similar tests;
  - iii. The specific determinations of emissions and/or performance which are intended to be made, including the site(s) in the ductwork or stack at which sampling will occur;
  - iv. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of the maximum emissions, maximum operating rate, minimum control performance, the levels of operating parameters for the emission unit, including associated control equipment, at or within which compliance is intended to be shown, and the means by which the operating parameters will be determined;
  - v. The test method(s) which will be used, with the specific analysis method, if the method can be used with different analysis methods. The specific sampling, analytical and quality control procedures which will be used, with an identification of the standard methods upon which they are based;
  - vi. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification;
  - vii. Any proposed use of an alternative test method, with detailed



justification; and

- viii. The format and content of the Source Test Report.
- d. The Permittee shall provide the Illinois EPA with written notification of testing at least thirty (30) days prior to testing and again five (5) days prior to the testing to enable the Illinois EPA to have an observer present. This notification shall include the name of emission unit(s) to be tested, scheduled date and time, and contact person with telephone number. The Illinois EPA may at the discretion of the Compliance Section Manager (or designee) accept notifications with shorter advance notice provided such notifications will not interfere with the Illinois EPA's ability to observe testing.
- e. If testing is delayed, the Permittee shall promptly notify the Illinois EPA by e-mail or facsimile, at least five (5) days prior to the scheduled date of testing or immediately, if the delay occurs in the five (5) days prior to the scheduled date. This notification shall also include the new date and time for testing, if set, or a separate notification shall be sent with this information when it is set.
- f. The Permittee shall submit the Final Source Test Report(s) for these tests accompanied by a cover letter stating whether or not compliance was shown, to the Illinois EPA, Bureau of Air, Compliance Section Manager, within thirty (30) days after the test results are compiled, but no later than sixty (60) days after the date of testing or sampling. The Final Source Test Report shall include as a minimum:
- i. General information describing the test, including the name and identification of the emission source which was tested, date of testing, names of personnel performing the tests, and Illinois EPA observers, if any;
  - ii. A summary of results;
  - iii. Description of test procedures and method(s), including description and map of emission units and sampling points, sampling train, testing and analysis equipment, and test schedule;
  - iv. Detailed description of test conditions, including:
    - A. List and description of the equipment (including serial numbers or other equipment specific identifiers) tested and process information (i.e., mode(s) of operation, process rate or throughput, fuel or raw material consumption rate, heat content of the fuels and biogas);
    - B. Control equipment information (i.e., equipment condition and operating parameters) during testing; and
    - C. A discussion of any preparatory actions taken (i.e., inspections, maintenance and repair).

- v. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration. Identification of the applicable regulatory standards and permit conditions that the testing was performed to demonstrate compliance with, a comparison of the test results to the applicable regulatory standards and permit conditions, and a statement whether the test(s) demonstrated compliance with the applicable standards and permit conditions;
  - vi. An explanation of any discrepancies among individual tests or anomalous data;
  - vii. The results and discussion of all quality control evaluation data, including a copy of all quality control data; and
  - viii. The applicable operating parameters of the pollution control device(s) during testing (temperature, pressure drop, flow rate, etc.), if any.
- 17a. Pursuant to 35 Ill. Adm. Code 218.105(d) (2) (A) (i), an owner or operator: That uses an afterburner or carbon adsorber to comply with any Section of 35 Ill. Adm. Code Part 218 shall use Illinois EPA and USEPA approved continuous monitoring equipment which is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use except as provided in 35 Ill. Adm. Code 218.105(d) (3). The continuous monitoring equipment must monitor the following parameters:
- For each afterburner which does not have a catalyst bed, the combustion chamber temperature of each afterburner.
- b. Pursuant to 35 Ill. Adm. Code 218.105(d) (2) (B), an owner or operator: Must install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring device, such as a strip chart, recorder or computer, having an accuracy of  $\pm 1$  percent of the temperature measured in degrees Celsius or  $\pm 0.5^\circ$  C, whichever is greater.
18. Pursuant to 40 CFR 63.10(b) (3), if an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants regulated by any standard established pursuant to section 112(d) or (f) of the Clean Air Act, and that stationary source is in the source category regulated by the relevant standard, but that source is not subject to the relevant standard (or other requirement established under 40 CFR Part 63) because of limitations on the source's potential to emit or an exclusion, the owner or operator must keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is

unaffected (e.g., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the USEPA and/or Illinois EPA to make a finding about the source's applicability status regarding the relevant standard or other requirement. If relevant, the analysis must be performed in accordance with requirements established in relevant subparts of 40 CFR Part 63 for this purpose for categories of stationary sources. If relevant, the analysis should be performed in accordance with USEPA guidance materials published to assist sources in making applicability determinations under Section 112 of the Clean Air Act, if any. The requirements to determine applicability of a standard under 40 CFR 63.1(b)(3) and to record the results of that determination under 40 CFR 63.10(b)(3) shall not by themselves create an obligation for the owner or operator to obtain a Title V permit.

- 19a. Pursuant to 35 Ill. Adm. Code 212.110(e), the owner or operator of an emission unit subject to 35 Ill. Adm. Code Part 212 shall retain records of all tests which are performed. These records shall be retained for at least three (3) years after the date a test is performed.
  - b.
    - i. Pursuant to 35 Ill. Adm. Code 212.324(g)(1), written records of inventory and documentation of inspections, maintenance, and repairs of all air pollution control equipment shall be kept in accordance with 35 Ill. Adm. Code 212.324(f).
    - ii. Pursuant to 35 Ill. Adm. Code 212.324(g)(2), the owner or operator shall document any period during which any process emission unit was in operation when the air pollution control equipment was not in operation or was malfunctioning so as to cause an emissions level in excess of the emissions limitation. These records shall include documentation of causes for pollution control equipment not operating or such malfunction and shall state what corrective actions were taken and what repairs were made.
    - iii. Pursuant to 35 Ill. Adm. Code 212.324(g)(3), a written record of the inventory of all spare parts not readily available from local suppliers shall be kept and updated.
    - iv. Pursuant to 35 Ill. Adm. Code 212.324(g)(5), the records required under 35 Ill. Adm. Code 212.324 shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Illinois EPA representatives during working hours.
20. Pursuant to 35 Ill. Adm. Code 218.129(f), the owner or operator of each storage vessel specified in 35 Ill. Adm. Code 218.119 shall maintain readily accessible records of the dimension of the storage vessel and an analysis of the capacity of the storage vessel. Each storage vessel with a design capacity less than 40,000 gallons is subject to no provisions of 35 Ill. Adm. Code Part 218 other than those required by maintaining readily accessible records of the dimensions of the storage vessel and analysis of the capacity of the storage vessel.

- 21a. The Permittee shall maintain records of the following items so as to demonstrate compliance with the conditions of this permit:
- i. Records addressing use of good operating practices for the Thermal Oxidizer (F-330) and Flare (F-370) associated with the Biogas Handling and Processing System and the Ionizer Canon and Carbon Bed System associated with the Process Building:
    - A. Records for periodic inspection of the thermal oxidizer, flare, ionizer canon, and carbon guard bed system with date, individual performing the inspection, and nature of inspection;
    - B. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date identified, date repaired, and nature of repair; and
    - C. An operating log for each control system which at a minimum includes any adjustments of the equipment's operating parameters.
  - ii. The Permittee shall keep a copy of the Fugitive Particulate Operating Program, any amendments or revisions to the Fugitive Particulate Operating Program, and the Permittee shall also keep a record of activities completed according to the Fugitive Particulate Operating Program.
  - iii. Biogas throughput for the Flare (F-370) (scf/day and scf/year);
  - iv. Tail gas throughput for the Thermal Oxidizer (F-330) (scf/day and scf/year);
  - v. Biomethane throughput for the Flare (F-3370) (scf/day and scf/year);
  - vi. Hours of operation for the Flare (F-370) when processing biogas (no-upgrade operation scenario) and when processing biomethane (upgrade operations scenario), and the Thermal Oxidizer (F-330) (hours/month and hours/year (each));
  - vii. Throughput for Biomass Equalization Tank (T-100), Anaerobic Digester Tank (T-105), Screened Digestate Tank (T-205), Polymer Tanks (T-210A, T-210B & T-210C), Spare Tank (T-251), Filtrate Tanks (T-250A & T-250B), Floc Tank (T-211), Grit Separation Tank (T-065A), and Separation Mill (S-063) (Gallons/Month and Gallons/year (each)); and
  - viii. Amount of material handled by the In-Line Solids Removal Screen Press (S-205), Belt Press (Y-211), Live-Bottom Receiving Bunker (H-062), Grit Separation Tank (T-065A), and Non-Digestible Waste Trash Compactors (tons/month and Tons/year);

- ix. Monthly and annual emissions of CO, NO<sub>x</sub>, PM, SO<sub>2</sub>, VOM, NH<sub>3</sub>, and hydrogen sulfide H<sub>2</sub>S emissions from the Liquid and Solid Food Waste Recycling Facility with supporting calculations (tons/month and tons/year).
  - b. All records and logs required by Condition 21(a) of this permit shall be retained at a readily accessible location at the source for at least five (5) years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer storage device) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
22. Within 30 days of the initial start-up of the operations at this facility, the Permittee shall submit a written notification to the Illinois EPA.
- 23a. Pursuant to 35 Ill. Adm. Code 212.110(d), a person planning to conduct testing for particulate matter emissions to demonstrate compliance shall give written notice to the Illinois EPA of that intent. Such notification shall be given at least thirty (30) days prior to the initiation of the test unless a shorter period is agreed to by the Illinois EPA. Such notification shall state the specific test methods from 35 Ill. Adm. Code 212.110 that will be used.
- b. Pursuant to 35 Ill. Adm. Code 212.324(g)(6), upon written request by the Illinois EPA, a report shall be submitted to the Illinois EPA for any period specified in the request stating the following: the dates during which any process emission unit was in operation when the air pollution control equipment was not in operation or was not operating properly, documentation of causes for pollution control equipment not operating or not operating properly, and a statement of what corrective actions were taken and what repairs were made.
24. Pursuant to 35 Ill. Adm. Code 218.990, upon request by the Illinois EPA, the owner or operator of an emission unit which is exempt from the requirements of 35 Ill. Adm. Code Part 218 Subparts PP, QQ, RR, TT or 35 Ill. Adm. Code 218.208(b) shall submit records to the Illinois EPA within 30 calendar days from the date of the request that document that the emission unit is exempt from those requirements.
- 25a. If there is an exceedance of or a deviation from the requirements of this permit as determined by the records required by this permit or otherwise, the Permittee shall submit a report to the Illinois EPA's Bureau of Air Compliance Section in Springfield, Illinois within thirty (30) days after the exceedance or deviation. The report shall identify the duration and the emissions impact of the exceedance or deviation, a copy of the relevant records and information to resolve the exceedance or deviation, and a description of the efforts to reduce emissions from, and the duration of exceedance or deviation, and to prevent future occurrences of any such exceedance or deviation.

b. One (1) copy of required reports and notifications shall be sent to:

i. Via mail or overnight delivery:

Illinois Environmental Protection Agency  
Bureau of Air  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

ii. and electronically:

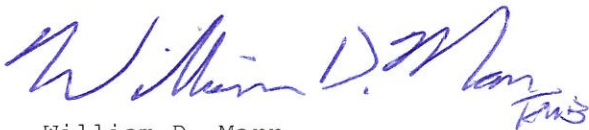
epa.boa.smu@illinois.gov

It should be noted that the boiler and the engine generator fired with natural gas are exempt from the state permitting requirement, pursuant to 35 Ill. Adm. Code 201.146(d) and (i), respectively.

It should also be noted that the application for a LIFETIME OPERATING permit is DENIED because the Illinois Environmental Protection Act, Section 9, and 35 Ill. Adm. Code 201.160(b) might be violated.

Pursuant to 35 Ill. Adm. Code 201.160(b), an operating permit may not be issued until the equipment has been constructed or modified in accordance with applicable conditions in this construction permit. The Illinois EPA suggests that you reapply for the operating permit after the construction and testing are successfully completed in accordance with the construction permit. This information must be submitted in duplicate and should reference the application and I.D. numbers assigned above.

If you have any questions on this permit, please contact Kunj Patel at 217/785-1705.



William D. Marr  
Manager, Permit Section  
Bureau of Air

WDM:KP:tan



STATE OF ILLINOIS  
ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL  
P. O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

**STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS  
ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) authorizes the Environmental Protection Agency to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special condition(s).

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year from the date of issuance, unless a continuous program of construction or development on this project has started by such time.
2. The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act, and Regulations adopted by the Illinois Pollution Control Board.
3. There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.
4. The Permittee shall allow any duly authorized agent of the Agency upon the presentation of credentials, at reasonable times:
  - a. to enter the Permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
  - b. to have access to and copy any records required to be kept under the terms and conditions of this permit,
  - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
  - d. to obtain and remove samples of any discharge or emission of pollutants, and
  - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
5. The issuance of this permit:
  - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,
  - b. does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities,
  - c. does not release the Permittee from compliance with the other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations,
  - d. does not take into consideration or attest to the structural stability of any units or parts of the project, and

- e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.
- 6.
    - a. Unless a joint construction/operation permit has been issued, a permit for operation shall be obtained from the Agency before the equipment covered by this permit is placed into operation.
    - b. For purposes of shakedown and testing, unless otherwise specified by a special permit condition, the equipment covered under this permit may be operated for a period not to exceed thirty (30) days.
- 7. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:
    - a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed, or
    - b. upon finding that any standard or special conditions have been violated, or
    - c. upon any violations of the Environmental Protection Act or any regulation effective thereunder as a result of the construction or development authorized by this permit.