

Iowa Department of Natural Resources

Draft Title V Operating Permit Fact Sheet

This document has been prepared to fulfill the public participation requirements of 40 CFR Part 70 and 567 Iowa Administrative Code (IAC) 22.107(6). 40 CFR Part 70 contains operating permit regulations pursuant to Title V of the Clean Air Act.

The Iowa Department of Natural Resources (DNR) finds that:

1. Des Moines Metropolitan Wastewater Reclamation Authority, located at 3000 Vandalia Road, Des Moines, Iowa 50317 has applied for a Title V Operating Permit. The designated responsible official of this facility is Mr. Scott Hutchens, P.E., WRA Director.
2. Des Moines Metropolitan Wastewater Reclamation Authority is a Wastewater Treatment facility (SIC 4952) (NAICS 20200254). This facility consists of twenty-six (26) significant emission units with potential emissions of:

Pollutant	Abbreviation	Potential Emissions (Tons per Year)
Particulate Matter ($\leq 10 \mu\text{m}$)	PM ₁₀	12.70
Particulate Matter	PM	12.70
Sulfur Dioxide	SO ₂	7.95
Nitrogen Oxides	NO _x	92.35
Volatile Organic Compounds	VOC	59.51
Carbon Monoxide	CO	192.12
Hazardous Air Pollutants ⁽¹⁾	HAP	10.57

⁽¹⁾ May include the following: 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,3-Butadiene, 1,3-Dichloropropene, 2,2,4-Trimethylpentane, Acetaldehyde, Acrolein, Benzene, Carbon Tetrachloride, Chlorobenzene, Chloroform, Ethylbenzene, Dibromoethane, Formaldehyde, Hexane, Methanol, Dichloromethane, Naphthalene, Phenol, Polycyclic Organic Matter, Styrene, Toluene, and Xylene (mixed isomers).

3. Des Moines Metropolitan Wastewater Reclamation Authority submitted a Title V Operating Permit application on January 14, 2016 and any additional information describing the facility on March 17, 2016 and April 6, 2016. Based on the information provided in these documents, DNR has made an initial determination that the facility meets all the applicable criteria for the issuance of an operating permit specified in 567 IAC 22.107.
4. DNR has complied with the procedures set forth in 567 IAC 22.107, including those regarding public notice, opportunity for public hearing, and notification of EPA and surrounding state and local air pollution programs.

DNR procedures for reaching a final decision on the draft permit:

1. The public comment period for the draft permit will run from May 30, 2016 through June 29, 2016. The beginning date of this public comment period also serves as the beginning of the U.S. Environmental Protection Agency's (EPA) 45-day review period, provided the EPA does not seek a separate review period. During this time, anyone may submit written comments on the permit. Mail signed comments to Jeff Gabby at the Polk County address shown below.
2. Written requests for a public hearing concerning the permit may also be submitted during the comment period. Any hearing request must state the person's interest in the subject matter, and the nature of the issues proposed to be raised at the hearing. DNR will hold a public hearing upon finding, on the basis of requests, a significant degree of relevant public interest in a draft permit. Mail hearing requests to Jeff Gabby at the Polk County address shown below.
3. DNR will keep a record of the issues raised during the public participation process, and will prepare written responses to all comments received. The comments and responses will be compiled into a responsiveness summary document. After the close of the public comment period, DNR will make a final decision on the permit application. The responsiveness summary and the final permit will be available to the public upon request.

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DNR concludes that:

1. DNR has authority under 455B.133 Code of Iowa to promulgate rules contained in 567 IAC Chapters 20-35, including, but not limited to, rules containing emission limits, providing for compliance schedules, compliance determination methods and issuance of permits.
2. DNR has the authority to issue operating permits for air contaminant sources and to include conditions in such permits under 455B.134 Code of Iowa.
3. The emission limits included in this permit are authorized by 455B.133 Code of Iowa and 567 IAC Chapters 20-35.
4. DNR is required to comply with 567 IAC Chapter 22 in conjunction with issuing a Title V Operating Permit.
5. The issuance of this permit does not preclude the DNR from pursuing enforcement action for any violation.

Applicant: Des Moines Metropolitan Wastewater Reclamation Authority
EIQ Number: 92-6801
Facility File Number: 77-01-317

Review Engineer:
Jeff Gabby

Application Evaluation

A. Project Briefing:

This project regards a Part 70 Title V permit application to operate the following significant emission units: Air Make-up Unit (3) (EU 02-MAU-01 / EP 02-MAU-01), (EU 02-MAU-02 / EP 02-MAU-02), (EU 02-MAU-03 / EP 02-MAU-03); Unit Heater (2) (EU 02-UH-01 / EP 02-UH-01), (EU 02-UH-02 / EP 02-UH-02); 60 kW Caterpillar Model C4.4 DIT Emergency Generator (EU 01 / EP 01); GE Jenbacher Emergency Generator, 1966 hp (2) (EU 71-GEN-06 / EP 71-GEN 06), (EU 71-GEN-07 / EP 71-GEN 07); Unit Heater (4) (EU 71-UH-01 / EP 71-UH-01), (EU 71-UH-02 / EP 71-UH-02); (EU 71-UH-03 / EP 71-UH-03), (EU 71-UH-04 / EP 71-UH-04); GE Jenbacher Non-Emergency Generator, 1966 hp, Biogas and Natural Gas (2) (EU 72-GEN-04-B, EU 72-GEN-04-NG / EP 72-GEN-04), (EU 72-GEN-05-B, EU 72-GEN-05-NG / EP 72-GEN-05), Weil-McClain Bldg 75 Boiler #1, #2, and #3, Natural Gas and Biogas (EU 75-BLR-1-NG, 75-BLR-1-B, 75-BLR-2-NG, 75-BLR-2-B, 75-BLR-3-NG, 75-BLR-3-B / EP 75-BLRS); Kato Reliant Bldg 75 Generator #1, #2, and #3, Biogas (EU 75-ENG-1 / EP 75-ENG-1) (EU 75-ENG-2 / EP 75-ENG-2) (EU 75-ENG-3 / EP 75-ENG-3); and Digester Tanks (6), with Digester Flare #1 & #2 (EU 85-1-6 / CE 244W, 249W / EP 244W, 249W).

The following emission units are insignificant, per 567 IAC 22.103(2):

1. Natural Gas Boiler, 2.563 MMBtu/ hr
2. Makeup Air Unit, 2.5 MMBtu/ hr
3. Makeup Air Unit, 0.275 MMBtu/ hr
4. Water Heater, 1.26 MMBtu/ hr
5. Boiler, 5.412 MMBtu/ hr
6. Boiler, 5.412 MMBtu/ hr
7. Boiler, 5.412 MMBtu/ hr
8. Water Heater, 0.055 MMBtu/ hr
9. Boiler, 8.4 MMBtu/ hr
10. Boiler, 8.4 MMBtu/ hr
11. Makeup Air Unit, 1.375 MMBtu/ hr
12. Makeup Air Unit, 0.55 MMBtu/ hr
13. Water Heater, 0.1999 MMBtu/ hr
14. Water Heater, 0.66 MMBtu/ hr
15. Water Heater, 0.2 MMBtu/ hr
16. Water Heater, 0.2 MMBtu/ hr
17. Water Heater, 0.2 MMBtu/ hr
18. Water Heater, 0.03 MMBtu/ hr
19. Water Heater, 0.197 MMBtu/ hr
20. Boiler, 0.52 MMBtu/ hr
21. Boiler, 0.52 MMBtu/ hr
22. Boiler, 0.52 MMBtu/ hr
23. Boiler, 0.668 MMBtu/ hr
24. Water Heater, 0.25 MMBtu/ hr
25. Boiler, 1.73 MMBtu/ hr
26. Makeup Air Unit, 0.225 MMBtu/ hr
27. Makeup Air Unit, 0.15 MMBtu/ hr
28. Rooftop Unit, 0.2 MMBtu/ hr
29. Rooftop Unit, 0.12 MMBtu/ hr
30. Makeup Air Unit, 0.75 MMBtu/ hr

31. Burner (Car Wash) , 0.825 MMBtu/ hr
32. Humidifier, 0.527 MMBtu/ hr
33. Water Heater, 0.200 MMBtu/ hr
34. Water Heater, 0.200 MMBtu/ hr
35. Boiler, 1.232 MMBtu/ hr
36. Boiler, 1.232 MMBtu/ hr
37. Boiler, 1.232 MMBtu/ hr
38. Makeup Air Unit, 0.250 MMBtu/ hr
39. Gas Unit Heater, 0.050 MMBtu/ hr
40. Gas Unit Heater, 0.050 MMBtu/ hr
41. Gas Unit Heater, 0.050 MMBtu/ hr
42. Gas Unit Heater, 0.050 MMBtu/ hr
43. Gas Unit Heater, 0.060 MMBtu/ hr
44. Water Heater, 0.199 MMBtu/ hr
45. Water Heater, 0.199 MMBtu/ hr
46. Water Heater, 0.199 MMBtu/ hr
47. Unit Heater, 0.075 MMBtu/ hr

48. Building 5, 5 Bar Screens
49. Aerated Grit Chambers (6)
50. Primary Clarifiers (6)
51. Aeration Tanks (6)
52. Secondary Clarifiers (12)
53. Chlorine Contact Basins (2)
54. Belt Filter Presses (3)
55. Biosolid Storage
56. Diesel Fueling Tank
57. Gasoline Tank

Notes regarding insignificant activities:

- #1. The first group of 47 insignificant emission units (#1 – 47) listed above are all less than 10 mmBtu/ hr., and are natural gas fired only, making them exempt from Polk County Construction Permits under Chapter V, Article X, Division I, ¶5-33 (1).
- #2. The second set of ten insignificant emission units (#48 – 57) listed above are VOC/ HAP VOC sources only, with the exception of Biosolid Storage (#55). They have installation dates prior to 4/22/1987, (PSD Adoption Date), making them exempt from Polk County Construction Permitting.
- #3. Biosolid Storage (#55) is an open storage bunker used to store solids recovered from wastewater, while it waits to be transported and applied to farmland. It has been determined that it does not require a Polk County Construction Permit, because it is a fugitive source and has very insignificant PTE, (75 lbs/yr PM/ PM₁₀, 11.33 lbs/yr VOC, and 5.69 lbs/ yr HAP).
- #4. The facility has biofilters that are designed for odor control. The primary constituent of the stream being controlled is H₂S, which is not a regulated pollutant. The biofilters are designed to remove 95% of H₂S prior to venting to final atmosphere. As H₂S and odor are not regulated with air emissions and any incidental constituents in the air stream would be fugitive emissions, air construction permit regulations do not apply as they are not being controlled by the biofilter. The biofilters are exempt under exempt from construction permitting under Polk County Board of Health Chapter V, Article X, Division I, ¶5-33 (13).

B. Applicable rules and regulations:

1. Emission limits and conditions: Polk County Construction Permit # 2892 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.03 lbs./ hr, 0.11 tons per 12-month period rolled monthly, PM to 0.10 gr./ dscf , Opacity to <20%, SO₂ to 0.002 lbs./ hr, 0.009 tons per 12-month period rolled monthly and 500 ppmv, NO_x to 0.33 lbs./ hr, 1.45 tons per 12-month period rolled monthly, VOC to 0.02 lbs./ hr, 0.08 tons per 12-month period rolled monthly, CO to 0.28 lbs./ hr, 1.21 tons per 12-month period rolled monthly, from the Air Make-up Unit (EU 02-MAU-01 / EP 02-MAU-01).

Polk County Construction Permit # 2893 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.01 lbs./ hr, 0.05 tons per 12-month period rolled monthly, PM to 0.10 gr./ dscf , Opacity to <20%, SO₂ to 500ppmv, NOx to 0.14 lbs./ hr, 0.61 tons per 12-month period rolled monthly, VOC to 0.01 lbs./ hr, 0.03 tons per 12-month period rolled monthly, CO to 0.12 lbs./ hr, 0.52 tons per 12-month period rolled monthly, from the Air Make-up Unit (EU 02-MAU-02 / EP 02-MAU-02).

Polk County Construction Permit # 2894 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.002 lbs./ hr, 0.007 tons per 12-month period rolled monthly, PM to 0.10 gr./ dscf , Opacity to <20%, SO₂ to 0.001 tons per 12-month period rolled monthly and 500ppmv, NOx to 0.020 lbs./ hr, 0.088 tons per 12-month period rolled monthly, VOC to 0.001 lbs./ hr, 0.005 tons per 12-month period rolled monthly, CO to 0.017 lbs./ hr, 0.074 tons per 12-month period rolled monthly, from the Air Make-up Unit (EU 02-MAU-03 / EP 02-MAU-03).

Polk County Construction Permits # 2895 through 2900 limit PM/ PM₁₀/ PM_{2.5} emissions to 0.002 tons per 12-month period rolled monthly, PM to 0.10 gr./ dscf , Opacity to <20%, SO₂ to 500ppmv, NOx to 0.006 lbs./ hr, 0.026 tons per 12-month period rolled monthly, VOC to 0.001 tons per 12-month period rolled monthly, CO to 0.005 lbs./ hr, 0.022 tons per 12-month period rolled monthly, (all emission limits are for each emission unit/ point), from six (6) space heaters (EU / EP 71-UH-01, 71-UH-02, 71-UH-03, 71-UH-04, 02-UH-01, and 02-UH-02).

Polk County Construction Permit # 2276 limits PM/ PM₁₀ emissions to 0.053 lbs./ hr, 0.013 tons per 12-month period rolled monthly, and 0.40 gram/kw-hr; Opacity to <20%, SO₂ to 0.20 lbs./ hr, 0.05 tons per 12-month period rolled monthly and 0.5 gram/kw-hr; NOx to 0.60 lbs./ hr, 0.15 tons per 12-month period rolled monthly, 4.7 gram/kw-hr; VOC to 0.25 lbs./ hr, 0.06 tons per 12-month period rolled monthly, CO to 0.66 lbs./ hr, 0.17 tons per 12-month period rolled monthly, 5.0 gram/kw-hr; from the 60 kW Caterpillar Model C4.4 DIT Emergency Generator (EU 01 / EP 01).

Polk County Construction Permits # 2890 and 2891 limit PM/ PM₁₀/ PM_{2.5} emissions to 0.58 lbs./ hr and 0.15 tons per 12-month period rolled monthly; PM to 0.10 gr./ dscf; Opacity to <20%; SO₂ to 0.01 lbs./ hr and 500ppmv; NOx to 8.67 lbs./ hr, 2.17 tons per 12-month period rolled monthly, 2.0 gram/HP-hr; VOC to 4.33lbs./ hr, 1.08 tons per 12-month period rolled monthly, 1.0 gram/HP-hr; and CO to 17.34 lbs./ hr, 4.34 tons per 12-month period rolled monthly, 4.0 gram/HP-hr, (all emission limits are for each emission unit/ point from GE Jenbacher Emergency Generators, 1966 hp (2) (EU 71-GEN-06 / EP 71-GEN 06) , (EU 71-GEN-07 / EP 71-GEN 07).

Polk County Construction Permits # 2888 and 2889 limit PM/ PM₁₀/ PM_{2.5} emissions to 0.57 lbs./ hr and 2.40 tons per 12-month period rolled monthly; PM to 0.10 gr./ dscf; Opacity to <20%; SO₂ to 0.64 lbs./ hr, 0.16 tons per 12-month period rolled monthly, and 500ppmv; NOx to 4.33 lbs./ hr, 18.29 tons per 12-month period rolled monthly, 1.0 gram/HP-hr; VOC to 3.03lbs./ hr, 12.80 tons per 12-month period rolled monthly, 0.7 gram/HP-hr; CO to 8.67 lbs./ hr, 36.63 tons per 12-month period rolled monthly, 2.0 gram/HP-hr [when combusting Natural Gas or combination of Biogas and Natural Gas]; and CO to 10.84 lbs./ hr, 45.80 tons per 12-month period rolled monthly, 2.5 gram/HP-hr [when combusting Biogas only] (all emission limits are for each emission unit/ point) from GE Jenbacher Non-Emergency Generator, 1966 hp, Biogas and Natural Gas (2) (EU 72-GEN-04-B, EU 72-GEN-04-NG / EP 72-GEN-04), (EU 72-GEN-05-B, EU 72-GEN-05-NG / EP 72-GEN-05).

Polk County Construction Permit # 2962 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.052 lbs./ hr, 0.228 tons per 12-month period rolled monthly, PM to 0.10 gr./ dscf , Opacity to <20%, SO₂ to 0.004 lbs./ hr, 0.018 tons per 12-month period rolled monthly and 500 ppmv, NO_x to 0.686 lbs./ hr, 3.01 tons per 12-month period rolled monthly, VOC to 0.038 lbs./ hr, 0.166 tons per 12-month period rolled monthly, CO to 0.576 lbs./ hr, 2.52 tons per 12-month period rolled monthly from each of the 3 natural gas and/ or biogas boilers. PC #2962 also limits PM/ PM₁₀/ PM_{2.5} emissions to 0.156 lbs./ hr, 0.684 tons per 12-month period rolled monthly, PM to 0.10 gr./ dscf , Opacity to <20%, SO₂ to 0.012 lbs./ hr, 0.054 tons per 12-month period rolled monthly and 500 ppmv, NO_x to 2.06 lbs./ hr, 9.02 tons per 12-month period rolled monthly, VOC to 0.114 lbs./ hr, 0.498 tons per 12-month period rolled monthly, CO to 1.73 lbs./ hr, 7.56 tons per 12-month period rolled monthly from all 3 boilers combined. The emission group is Weil-McClain Bldg 75 Boilers #1, #2, and #3, Natural Gas and Biogas (EU 75-BLR-1-NG, 75-BLR-1-B, 75-BLR-2-NG, 75-BLR-2-B, 75-BLR-3-NG, 75-BLR-3-B / EP 75-BLRS).

Polk County Construction Permits # 2963, 2964, and 2965 each limits PM/ PM₁₀/ PM_{2.5} emissions to 0.08 lbs./ hr and 0.02 tons per 12-month period rolled monthly; PM to 0.10 gr./ dscf; Opacity to <20%; SO₂ to 0.005 lbs./ hr, 0.001 tons per 12-month period rolled monthly, and 500ppmv; NO_x to 33.58 lbs./ hr, 8.40 tons per 12-month period rolled monthly, VOC to 0.97 lbs./ hr, 0.24 tons per 12-month period rolled monthly, CO to 2.61 lbs./ hr, 0.65 tons per 12-month period rolled monthly, (all emission limits are for each emission unit/ point) from Kato Reliant Bldg 75 Generators #1, #2, and #3, Biogas (EU 75-ENG-1 / EP 75-ENG-1) (EU 75-ENG-2 / EP 75-ENG-2) (EU 75-ENG-3 / EP 75-ENG-3).

Polk County Construction Permits # 2423 limits PM/ PM₁₀ emissions to 0.10 gr./ dscf; Opacity to <20%; SO₂ to 1.71 lbs./ hr, 7.51 tons per 12-month period rolled monthly, and 500ppmv; NO_x to 3.37 lbs./ hr, 14.76 tons per 12-month period rolled monthly, VOC to 6.93 lbs./ hr, 30.35 tons per 12-month period rolled monthly, CO to 18.31 lbs./ hr, 80.22 tons per 12-month period rolled monthly, (all emission limits are for EP 244 W and EP 249 W combined) from Digester Tanks (6), with Digester Flare #1 & #2 (EU 85-1-6 / CE 244W, 249W / EP 244W, 249W).

2. Opacity is limited to <20% for the Air Make-up Units: (EU 02-MAU-01 / EP 02-MAU-01), (EU 02-MAU-02 / EP 02-MAU-02), (EU 02-MAU-03 / EP 02-MAU-03), (EU / EP 71-UH-01, 71-UH-02, 71-UH-03, 71-UH-04, 02-UH-01, and 02-UH-02), (EU 01 / EP 01), (EU 71-GEN-06 / EP 71-GEN 06) , (EU 71-GEN-07 / EP 71-GEN 07), (EU 72-GEN-04-B, EU 72-GEN-04-NG / EP 72-GEN-04), (EU 72-GEN-05-B, EU 72-GEN-05-NG / EP 72-GEN-05), (EU 75-BLR-1-NG, 75-BLR-1-B, 75-BLR-2-NG, 75-BLR-2-B, 75-BLR-3-NG, 75-BLR-3-B / EP 75-BLRS), (EU 75-ENG-1 / EP 75-ENG-1) (EU 75-ENG-2 / EP 75-ENG-2) (EU 75-ENG-3 / EP 75-ENG-3), and (EU 85-1-6 / CE 244W, 249W / EP 244W, 249W).

Opacity for the remainder of the facility: Less than 20% opacity- Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9.

3. NSPS: 60 kW Caterpillar Model C4.4 DIT Emergency Generator (EU 01 / EP 01) is subject to NSPS Subpart IIII- Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. Polk County Construction Permit # 2276 contains the applicable requirements from the subpart. A web link to Subpart IIII is found in Appendix A of the permit.

GE Jenbacher Emergency Generators, 1966 hp (2) (EU 71-GEN-06 / EP 71-GEN 06) , (EU 71-GEN-07 / EP 71-GEN 07) are subject to 40 CFR 60 Subpart JJJJ-Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. Polk County Construction Permits # 2890 and 2891 contain the applicable requirements from the subpart. A web link to Subpart JJJJ is found in Appendix A of the permit.

GE Jenbacher Non-Emergency Generator, 1966 hp, Biogas and Natural Gas (2) (EU 72-GEN-04-B, EU 72-GEN-04-NG / EP 72-GEN-04), (EU 72-GEN-05-B, EU 72-GEN-05-NG / EP 72-GEN-05) are subject to 40 CFR 60 Subpart JJJJ-Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. Polk County Construction Permits # 2888 and 2889 contain the applicable requirements from the subpart. A web link to Subpart JJJJ is found in Appendix A of the permit.

Weil-McClain Bldg 75 Boilers #1, #2, and #3, Natural Gas and Biogas (EU 75-BLR-1-NG, 75-BLR-1-B, 75-BLR-2-NG, 75-BLR-2-B, 75-BLR-3-NG, 75-BLR-3-B / EP 75-BLRS). Per §60.40c (a) the Boilers are not subject to Subpart Dc-Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, as each unit is less than 10 MMBtu.

Kato Reliant Bldg 75 Generators #1, #2, and #3, Biogas (EU 75-ENG-1 / EP 75-ENG-1) (EU 75-ENG-2 / EP 75-ENG-2) (EU 75-ENG-3 / EP 75-ENG-3)- Per §60.4230(a)(6) the emission units are not subject to 40 CFR 60 Subpart JJJJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines since they were constructed prior to June 12, 2006.

4. NESHAP: 60 kW Caterpillar Model C4.4 DIT Emergency Generator (EU 01 / EP 01), GE Jenbacher Emergency Generators, 1966 hp (2) (EU 71-GEN-06 / EP 71-GEN 06) , (EU 71-GEN-07 / EP 71-GEN 07), GE Jenbacher Non-Emergency Generator, 1966 hp, Biogas and Natural Gas (2) (EU 72-GEN-04-B, EU 72-GEN-04-NG / EP 72-GEN-04), (EU 72-GEN-05-B, EU 72-GEN-05-NG / EP 72-GEN-05) are subject to NESHAP Subpart ZZZZ- National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. Polk County Construction Permit # 2276, 2890, 2891, 2888, and 2889 contain the applicable requirements from the subpart and are placed into the Title V Permit. A web link to Subpart ZZZZ is found in Appendix A of the permit.

Weil-McClain Bldg 75 Boilers #1, #2, and #3, Natural Gas and Biogas (EU 75-BLR-1-NG, 75-BLR-1-B, 75-BLR-2-NG, 75-BLR-2-B, 75-BLR-3-NG, 75-BLR-3-B / EP 75-BLRS). Per §63.7485 as a minor source of HAPs Subpart DDDDD—National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters is not applicable. Per §63.11194 the boiler is not in a subcategory listed in §63.11200 and defined in §63.11237 (as it meets the definition of a gaseous boiler); therefore, 40 CFR 63 Subpart JJJJJ—National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources is not applicable.

Kato Reliant Bldg 75 Generators #1, #2, and #3, Biogas (EU 75-ENG-1 / EP 75-ENG-1) (EU 75-ENG-2 / EP 75-ENG-2) (EU 75-ENG-3 / EP 75-ENG-3)- Per §63.6590(a)(2)(iii) as an area source for HAPs with an engine installed prior to 6/12/06 the source is an existing effected source for Subpart ZZZZ-National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. Polk County Construction Permits # 2963, 2964, and 2965 contain the applicable requirements from the subpart and are placed into the Title V Permit. A web link to Subpart ZZZZ is found in Appendix A of the permit.

5. PSD: Source is currently minor (PSD) for all pollutants. If the facility makes a future qualifying change, then they will need to submit a PSD permit application, i.e., applying for a major increase (>250 TPY) for any pollutant.
6. NAAQS: Facility is located in an attainment area. Air modeling is not required at this time.
7. Title IV: Not applicable.
8. Stratospheric ozone: the only ozone depleting chemicals (regulated by 40 CFR 82) at the facility are those used for air conditioning. 40 CFR 82, Subpart F, applies to the disposal of appliances containing Class I or Class II substances (i.e. air conditioners).

9. PM₁₀: Polk County Construction Permit # 2892 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.03 lbs./ hr, 0.11 tons per 12-month period rolled monthly, from the Air Make-up Unit (EU 02-MAU-01 / EP 02-MAU-01). For purposes of reporting, regulating, and fee payment, it is being assumed that all PM is PM₁₀ or smaller.

Polk County Construction Permit # 2893 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.01 lbs./ hr, 0.05 tons per 12-month period rolled monthly, from the Air Make-up Unit (EU 02-MAU-02 / EP 02-MAU-02). For purposes of reporting, regulating, and fee payment, it is being assumed that all PM is PM₁₀ or smaller.

Polk County Construction Permit # 2894 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.002 lbs./ hr, 0.007 tons per 12-month period rolled monthly, from the Air Make-up Unit (EU 02-MAU-03 / EP 02-MAU-03). For purposes of reporting, regulating, and fee payment, it is being assumed that all PM is PM₁₀ or smaller.

Polk County Construction Permits # 2895 through 2900 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.002 tons per 12-month period rolled monthly, (all emission limits are for each emission unit/ point), from six (6) space heaters (EU / EP 71-UH-01, 71-UH-02, 71-UH-03, 71-UH-04, 02-UH-01, and 02-UH-02). For purposes of reporting, regulating, and fee payment, it is being assumed that all PM is PM₁₀ or smaller.

Polk County Construction Permit # 2276 limits PM/ PM₁₀ emissions to 0.053 lbs./ hr, 0.013 tons per 12-month period rolled monthly, and 0.40 gram/kw-hr; from the 60 kW Caterpillar Model C4.4 DIT Emergency Generator (EU 01 / EP 01). For purposes of reporting, regulating, and fee payment, it is being assumed that all PM is PM₁₀ or smaller.

Polk County Construction Permits # 2890 and 2891 limit PM/ PM₁₀/ PM_{2.5} emissions to 0.58 lbs./ hr and 0.15 tons per 12-month period rolled monthly; (all emission limits are for each emission unit/ point) from GE Jenbacher Emergency Generators, 1966 hp (2) (EU 71-GEN-06 / EP 71-GEN 06) , (EU 71-GEN-07 / EP 71-GEN 07). For purposes of reporting, regulating, and fee payment, it is being assumed that all PM is PM₁₀ or smaller.

Polk County Construction Permits # 2888 and 2889 limit PM/ PM₁₀/ PM_{2.5} emissions to 0.57 lbs./ hr and 2.40 tons per 12-month period rolled monthly; (all emission limits are for each emission unit/ point) from GE Jenbacher Non-Emergency Generator, 1966 hp, Biogas and Natural Gas (2) (EU 72-GEN-04-B, EU 72-GEN-04-NG / EP 72-GEN-04), (EU 72-GEN-05-B, EU 72-GEN-05-NG / EP 72-GEN-05). For purposes of reporting, regulating, and fee payment, it is being assumed that all PM is PM₁₀ or smaller.

Polk County Construction Permit # 2962 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.052 lbs./ hr, 0.228 tons per 12-month period rolled monthly from each of the 3 natural gas and/ or biogas boilers. PC #2962 also limits PM/ PM₁₀/ PM_{2.5} emissions to 0156 lbs./ hr, 0.684 tons per 12-month period rolled monthly from all 3 boilers combined. The emission group is Weil-McClain Bldg 75 Boilers #1, #2, and #3, Natural Gas and Biogas (EU 75-BLR-1-NG, 75-BLR-1-B, 75-BLR-2-NG, 75-BLR-2-B, 75-BLR-3-NG, 75-BLR-3-B / EP 75-BLRS).

Polk County Construction Permits # 2963, 2964, and 2965 each limits PM/ PM₁₀/ PM_{2.5} emissions to 0.08 lbs./ hr and 0.02 tons per 12-month period rolled monthly (all emission limits are for each emission unit/ point) from Kato Reliant Bldg 75 Generators #1, #2, and #3, Biogas (EU 75-ENG-1 / EP 75-ENG-1) (EU 75-ENG-2 / EP 75-ENG-2) (EU 75-ENG-3 / EP 75-ENG-3). For purposes of reporting, regulating, and fee payment, it is being assumed that all PM is PM₁₀ or smaller.

Polk County Construction Permits # 2423 limits PM/ PM₁₀ emissions to 0.10 gr./ dscf from Digester Tanks (6), with Digester Flare #1 & #2 (EU 85-1-6 / CE 244W, 249W / EP 244W, 249W).

C. CAM and Monitoring consideration:

PM:

Air Make-up Unit (EU 02-MAU-01 / EP 02-MAU-01) is uncontrolled minor for PM/ PM₁₀/ PM_{2.5} emissions (0.11 tons per 12-month period rolled monthly), by Polk County Construction Permit # 2892. Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Air Make-up Unit (EU 02-MAU-02 / EP 02-MAU-02) is uncontrolled minor for PM/ PM₁₀/ PM_{2.5} emissions (0.05 tons per 12-month period rolled monthly), by Polk County Construction Permit # 2893. Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Air Make-up Unit (EU 02-MAU-03 / EP 02-MAU-03) is uncontrolled minor for PM/ PM₁₀/ PM_{2.5} emissions (0.007 tons per 12-month period rolled monthly), by Polk County Construction Permit # 2894. Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permit # 2895 through 2900 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.002 tons per 12-month period rolled monthly, (uncontrolled minor), (emission limits are for each emission unit/ point), from six (6) space heaters (EU / EP 71-UH-01, 71-UH-02, 71-UH-03, 71-UH-04, 02-UH-01, and 02-UH-02). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permit # 2276 limits PM/ PM₁₀ emissions to 0.053 lbs./ hr, 0.013 tons per 12-month period rolled monthly, and 0.40 gram/kw-hr; (uncontrolled minor), from the 60 kW Caterpillar Model C4.4 DIT Emergency Generator (EU 01 / EP 01). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2890 and 2891 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.58 lbs./ hr and 0.15 tons per 12-month period rolled monthly; PM to 0.10 gr./ dscf; (uncontrolled minor) (all emission limits are for each emission unit/ point) from GE Jenbacher Emergency Generators, 1966 hp (2) (EU 71-GEN-06 / EP 71-GEN 06) , (EU 71-GEN-07 / EP 71-GEN 07). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2888 and 2889 limit PM/ PM₁₀/ PM_{2.5} emissions to 0.57 lbs./ hr and 2.40 tons per 12-month period rolled monthly; PM to 0.10 gr./ dscf (uncontrolled minor) (all emission limits are for each emission unit/ point) from GE Jenbacher Non-Emergency Generator, 1966 hp, Biogas and Natural Gas (2) (EU 72-GEN-04-B, EU 72-GEN-04-NG / EP 72-GEN-04), (EU 72-GEN-05-B, EU 72-GEN-05-NG / EP 72-GEN-05). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permit # 2962 limits PM/ PM₁₀/ PM_{2.5} emissions to 0.052 lbs./ hr, 0.228 tons per 12-month period rolled monthly (uncontrolled minor) (all emission limits are for each emission unit/ point) from each of the 3 natural gas and/ or biogas boilers. PC #2962 also limits PM/ PM₁₀/ PM_{2.5} emissions to 0156 lbs./ hr, 0.684 tons per 12-month period rolled monthly (uncontrolled minor) from all 3 boilers combined. The emission group is Weil-McClain Bldg 75 Boilers #1, #2, and #3, Natural Gas and Biogas (EU 75-BLR-1-NG, 75-BLR-1-B, 75-BLR-2-NG, 75-BLR-2-B, 75-BLR-3-NG, 75-BLR-3-B / EP 75-BLRS). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2963, 2964, and 2965 each limits PM/ PM₁₀/ PM_{2.5} emissions to 0.08 lbs./ hr and 0.02 tons per 12-month period rolled monthly (uncontrolled minor) (all emission limits are for each emission unit/ point) from Kato Reliant Bldg 75 Generators #1, #2, and #3, Biogas (EU 75-ENG-1 / EP 75-ENG-1) (EU 75-ENG-2 / EP 75-ENG-2) (EU 75-ENG-3 / EP 75-ENG-3). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2423 limits PM/ PM₁₀ emissions to 0.10 gr./ dscf; (all emission limits are for EP 244 W and EP 249 W combined) from Digester Tanks (6), with Digester Flare #1 & #2 (EU 85-1-6 / CE 244W, 249W / EP 244W, 249W). AP-42 PM/ PM₁₀ PTE is 3.33 TPY (uncontrolled minor). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Opacity:

Polk County Construction Permit # 2892 limits Opacity to <20%, from the Air Make-up Unit (EU 02-MAU-01 / EP 02-MAU-01). EU 02-MAU-01 emissions are from the combustion of natural gas and therefore no opacity is expected. Checking for VEs will not be required.

Polk County Construction Permit # 2893 limits Opacity to <20%, from the Air Make-up Unit (EU 02-MAU-02 / EP 02-MAU-02). EU 02-MAU-02 emissions are from the combustion of natural gas and therefore no opacity is expected. Checking for VEs will not be required.

Polk County Construction Permit # 2894 limits Opacity to <20%, from the Air Make-up Unit (EU 02-MAU-03 / EP 02-MAU-03). EU 02-MAU-03 emissions are from the combustion of natural gas and therefore no opacity is expected. Checking for VEs will not be required.

Polk County Construction Permit # 2895 through 2900 limits Opacity to <20%, from six (6) space heaters (EU / EP 71-UH-01, 71-UH-02, 71-UH-03, 71-UH-04, 02-UH-01, and 02-UH-02). Emissions are from the combustion of natural gas and therefore no opacity is expected. Checking for VEs will not be required.

Polk County Construction Permit #2276 limits Opacity to <20%, from the 60 kW Caterpillar Model C4.4 DIT Emergency Generator (EU 01 / EP 01). EU 01 is limited to 500 hours per year. Emission Point 01 shall be visually checked for observable emissions once every time the Caterpillar Model C4.4 DIT Emergency Generator (EU 01) is operated, by a designated observer, in order to monitor compliance with the opacity requirement.

Polk County Construction Permits # 2890 and 2891 limit Opacity to <20% from GE Jenbacher Emergency Generators, 1966 hp (2) (EU 71-GEN-06 / EP 71-GEN 06) , (EU 71-GEN-07 / EP 71-GEN 07). EU 71-GEN-06 and EU 71-GEN-07 emissions are from the combustion of natural gas and therefore no opacity is expected. Checking for VEs will not be required.

Polk County Construction Permits # 2888 and 2889 limit Opacity to <20% from GE Jenbacher Non-Emergency Generator, 1966 hp, Biogas and Natural Gas (2) (EU 72-GEN-04-B, EU 72-GEN-04-NG / EP 72-GEN-04), (EU 72-GEN-05-B, EU 72-GEN-05-NG / EP 72-GEN-05). Emissions are from the combustion of natural gas and/ or biogas and therefore no opacity is expected. Checking for VEs will not be required.

Polk County Construction Permit # 2962 limits Opacity to <20%, from Weil-McClain Bldg 75 Boilers #1, #2, and #3, Natural Gas and Biogas (EU 75-BLR-1-NG, 75-BLR-1-B, 75-BLR-2-NG, 75-BLR-2-B, 75-BLR-3-NG, 75-BLR-3-B / EP 75-BLRS). Emissions are from the combustion of natural gas and/ or biogas and therefore no opacity is expected. Checking for VEs will not be required.

Polk County Construction Permits # 2963, 2964, and 2965 limits Opacity to <20% from Kato Reliant Bldg 75 Generators #1, #2, and #3, Biogas (EU 75-ENG-1 / EP 75-ENG-1) (EU 75-ENG-2 / EP 75-ENG-2) (EU 75-ENG-3 / EP 75-ENG-3). Emissions are from the combustion of biogas and therefore no opacity is expected. Checking for VEs will not be required.

Polk County Construction Permits # 2423 limits Opacity to <20% from Digester Tanks (6), with Digester Flare #1 & #2 (EU 85-1-6 / CE 244W, 249W / EP 244W, 249W). Emissions are from the combustion of biogas and therefore no opacity is expected. Checking for VEs will not be required.

VOC:

Polk County Construction Permit # 2892 limits VOC to 0.02 lbs./ hr, 0.08 tons per 12-month period rolled monthly, (uncontrolled minor), from the Air Make-up Unit (EU 02-MAU-01 / EP 02-MAU-01). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permit # 2893 limits VOC to 0.01 lbs./ hr, 0.03 tons per 12-month period rolled monthly, (uncontrolled minor), from the Air Make-up Unit (EU 02-MAU-02 / EP 02-MAU-02). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permit # 2894 limits VOC to 0.001 lbs./ hr, 0.005 tons per 12-month period rolled monthly, (uncontrolled minor), from the Air Make-up Unit (EU 02-MAU-03 / EP 02-MAU-03). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2895 through 2900 limit VOC to 0.001 tons per 12-month period rolled monthly, (uncontrolled minor), (all emission limits are for each emission unit/ point), from six (6) space heaters (EU / EP 71-UH-01, 71-UH-02, 71-UH-03, 71-UH-04, 02-UH-01, and 02-UH-02). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permit # 2276 limits VOC to 0.25 lbs./ hr, 0.06 tons per 12-month period rolled monthly, (uncontrolled minor), from the 60 kW Caterpillar Model C4.4 DIT Emergency Generator (EU 01 / EP 01). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2890 and 2891 limit VOC to 4.33lbs./ hr, 1.08 tons per 12-month period rolled monthly, 1.0 gram/HP-hr; (uncontrolled minor) (all emission limits are for each emission unit/ point) from GE Jenbacher Emergency Generators, 1966 hp (2) (EU 71-GEN-06 / EP 71-GEN 06) , (EU 71-GEN-07 / EP 71-GEN 07). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2888 and 2889 limit VOC to 3.03lbs./ hr, 12.80 tons per 12-month period rolled monthly, 0.7 gram/HP-hr; (uncontrolled minor) (all emission limits are for each emission unit/ point) from GE Jenbacher Non-Emergency Generator, 1966 hp, Biogas and Natural Gas (2) (EU 72-GEN-04-B, EU 72-GEN-04-NG / EP 72-GEN-04), (EU 72-GEN-05-B, EU 72-GEN-05-NG / EP 72-GEN-05). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permit # 2962 limits VOC to 0.038 lbs./ hr, 0.166 tons per 12-month period rolled monthly from each of the 3 natural gas and/ or biogas boilers (uncontrolled minor) (all emission limits are for each emission unit/ point). PC #2962 also limits VOC to 0.114 lbs./ hr, 0.498 tons per 12-month period rolled monthly (uncontrolled minor) from all 3 boilers combined. The emission group is Weil-McClain Bldg 75 Boilers #1, #2, and #3, Natural Gas and Biogas (EU 75-BLR-1-NG, 75-BLR-1-B, 75-BLR-2-NG, 75-BLR-2-B, 75-BLR-3-NG, 75-BLR-3-B / EP 75-BLRS). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2963, 2964, and 2965 each limits VOC to 0.97 lbs./ hr, 0.24 tons per 12-month period rolled monthly (uncontrolled minor) (all emission limits are for each emission unit/ point) from Kato Reliant Bldg 75 Generators #1, #2, and #3, Biogas (EU 75-ENG-1 / EP 75-ENG-1) (EU 75-ENG-2 / EP 75-ENG-2) (EU 75-ENG-3 / EP 75-ENG-3). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2423 limits VOC to 6.93 lbs./ hr, 30.35 tons per 12-month period rolled monthly (controlled minor) (all emission limits are for EP 244 W and EP 249 W combined) from Digester Tanks (6), with Digester Flare #1 & #2 (EU 85-1-6 / CE 244W, CE 249W / EP 244W, EP 249W). Construction permits require that flares shall be operated with a flame present at all times when the emissions may be vented to them. The likelihood of exceeding the VOC limits is very low. Biogas sampling conducted on 1/6/2015 and 2/9/2015 shows that it is 0.04% hydrocarbon >C6, with the majority being methane (41%) and CO2 (58%). Converting these values results in an uncontrolled VOC PTE of 26.76 TPY. (uncontrolled minor). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

HAPs:

Total facility HAP PTE is 10.57 TPY. Emission Units which have potential to emit HAPs have no limits associated with them. Under CAM and DNR's Monitoring Guidance Policy, no additional monitoring or testing is required.

SO₂, NO_x, and CO

Polk County Construction Permit # 2892 limits SO₂ to 0.002 lbs./ hr, 0.009 tons per 12-month period rolled monthly, NO_x to 0.33 lbs./ hr, 1.45 tons per 12-month period rolled monthly, and CO to 0.28 lbs./ hr, 1.21 tons per 12-month period rolled monthly (all uncontrolled minor), from the Air Make-up Unit (EU 02-MAU-01 / EP 02-MAU-01). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permit # 2893 limits SO₂ to 500ppmv, NO_x to 0.14 lbs./ hr, 0.61 tons per 12-month period rolled monthly, and CO to 0.12 lbs./ hr, 0.52 tons per 12-month period rolled monthly (all uncontrolled minor), from the Air Make-up Unit (EU 02-MAU-02 / EP 02-MAU-02). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permit # 2894 limits SO₂ to 0.001 tons per 12-month period rolled monthly and 500ppmv, NO_x to 0.020 lbs./ hr, 0.088 tons per 12-month period rolled monthly, and CO to 0.017 lbs./ hr, 0.074 tons per 12-month period rolled monthly (all uncontrolled minor), from the Air Make-up Unit (EU 02-MAU-03 / EP 02-MAU-03). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permit # 2895 through 2900 limits NO_x to 0.006 lbs./ hr, 0.026 tons per 12-month period rolled monthly, SO₂ to 500ppmv, CO to 0.005 lbs./ hr, 0.022 tons per 12-month period rolled monthly, (all uncontrolled minor), (all emission limits are for each emission unit/ point), from six (6) space heaters (EU / EP 71-UH-01, 71-UH-02, 71-UH-03, 71-UH-04, 02-UH-01, and 02-UH-02). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permit # 2276 limits SO₂ to 0.20 lbs./ hr, 0.05 tons per 12-month period rolled monthly and 0.5 gram/kw-hr; NO_x to 0.60 lbs./ hr, 0.15 tons per 12-month period rolled monthly, 4.7 gram/kw-hr; CO to 0.66 lbs./ hr, 0.17 tons per 12-month period rolled monthly, 5.0 gram/kw-hr, (all uncontrolled minor), from the 60 kW Caterpillar Model C4.4 DIT Emergency Generator (EU 01 / EP 01). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2890 and 2891 limit SO₂ to 0.01 lbs./ hr and 500ppmv; NO_x to 8.67 lbs./ hr, 2.17 tons per 12-month period rolled monthly, 2.0 gram/HP-hr; and CO to 17.34 lbs./ hr, 4.34 tons per 12-month period rolled monthly, 4.0 gram/HP-hr, (all uncontrolled minor) (all emission limits are for each emission unit/ point from GE Jenbacher Emergency Generators, 1966 hp (2) (EU 71-GEN-06 / EP 71-GEN 06) , (EU 71-GEN-07 / EP 71-GEN 07). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2888 and 2889 limit SO₂ to 0.64 lbs./ hr, 0.16 tons per 12-month period rolled monthly, and 500ppmv; NO_x to 4.33 lbs./ hr, 18.29 tons per 12-month period rolled monthly, 1.0 gram/HP-hr; CO to 8.67 lbs./ hr, 36.63 tons per 12-month period rolled monthly, 2.0 gram/HP-hr [when combusting Natural Gas or combination of Biogas and Natural Gas]; and CO to 10.84 lbs./ hr, 45.80 tons per 12-month period rolled monthly, 2.5 gram/HP-hr [when combusting Biogas only] (all emission limits are for each emission unit/ point) from GE Jenbacher Model J420 GS-B85 Non-Emergency Generator combusting Natural Gas, Biogas, or Combination of both (2) (EU 72-GEN-04-B, EU 72-GEN-04-NG / EP 72-GEN-04), (EU 72-GEN-05-B, EU 72-GEN-05-NG / EP 72-GEN-05). (CE 72-GEN-040C) and (CE 72-GEN-050C) provide CO control for the units when burning natural gas. NO_x and SO₂ are uncontrolled minor. CO is controlled minor for natural gas combustion (36.63 TPY) and uncontrolled major (523.29 TPY). [The uncontrolled CO PTE was calculated based on a 93% control efficiency and permitted CO allowable for the CO Catalyst, but this is over estimating uncontrolled PTE, because controlled PTE was based on the 2.0 gram/ HP-hr NSPS emission limit, rather than standard emission factors]. It is uncontrolled minor when burning biogas (45.80 TPY). Under DNR's Monitoring Guidance Policy, a Facility O&M Plan and one stack test are indicated. The Facility O&M Plan is not required, however, since NESHAP JJJJ's requirements for CO Oxidation Catalyst are sufficient. CAM does not apply to NO_x and SO₂, but does for CO. The units are subject to 40 CFR 60 Subpart JJJJ and 40 CFR 63 Subpart ZZZZ. These require the facility to conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance for NO_x, VOC, and CO. NSPS Subpart JJJJ, NESHAP Subpart ZZZZ, (post 1990 NSPS & NESHAP), Polk County AQD Construction Permits #2888 and 2889 contain requirements to ensure compliance with the emission limits, sufficient enough to meet the intent of CAM for CO, so a CAM Plan will not be imposed on the emission units for CO.

Polk County Construction Permit # 2962 limits SO₂ to 0.004 lbs./ hr, 0.018 tons per 12-month period rolled monthly and 500 ppmv, NO_x to 0.686 lbs./ hr, 3.01 tons per 12-month period rolled monthly, and CO to 0.576 lbs./ hr, 2.52 tons per 12-month period rolled monthly (all emission limits are for each emission unit/ point) (all uncontrolled minor) from each of the 3 natural gas and/ or biogas boilers. PC #2962 also limits SO₂ to 0.012 lbs./ hr, 0.054 tons per 12-month period rolled monthly and 500 ppmv, NO_x to 2.06 lbs./ hr, 9.02 tons per 12-month period rolled monthly, and CO to 1.73 lbs./ hr, 7.56 tons per 12-month period rolled monthly (all uncontrolled minor) from all 3 boilers combined. The emission group is Weil-McClain Bldg 75 Boilers #1, #2, and #3, Natural Gas and Biogas (EU 75-BLR-1-NG, 75-BLR-1-B, 75-BLR-2-NG, 75-BLR-2-B, 75-BLR-3-NG, 75-BLR-3-B / EP 75-BLRS). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2963, 2964, and 2965 each limits SO₂ to 0.005 lbs./ hr, 0.001 tons per 12-month period rolled monthly, and 500ppmv; NO_x to 33.58 lbs./ hr, 8.40 tons per 12-month period rolled monthly, and CO to 2.61 lbs./ hr, 0.65 tons per 12-month period rolled monthly, (all uncontrolled minor) (all emission limits are for each emission unit/ point) from Kato Reliant Bldg 75 Generators #1, #2, and #3, Biogas (EU 75-ENG-1 / EP 75-ENG-1) (EU 75-ENG-2 / EP 75-ENG-2) (EU 75-ENG-3 / EP 75-ENG-3). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

Polk County Construction Permits # 2423 limits SO₂ to 1.71 lbs./ hr, 7.51 tons per 12-month period rolled monthly, and 500ppmv; NO_x to 3.37 lbs./ hr, 14.76 tons per 12-month period rolled monthly, and CO to 18.31 lbs./ hr, 80.22 tons per 12-month period rolled monthly, (all uncontrolled minor) (all emission limits are for EP 244 W and EP 249 W combined) from Digester Tanks (6), with Digester Flare #1 & #2 (EU 85-1-6 / CE 244W, 249W / EP 244W, 249W). Under DNR's Monitoring Guidance Policy, no O&M Plan and no stack test are required. CAM does not apply.

D. Facility Proposed Limits:

None Proposed.

E. Responsible Official: Mr. Scott Hutchens, P.E., WRA Director, is in charge of a principle business function, that of making key decisions for DMMWWRA in regards to processing incoming wastewater, delivering cleaned water to the back to the environment, and utilization/ sale of biogas produced from wastewater.

- Facility Comment ran from 5/20-26/2016. No comments were received.
- Public Comment is from 5/30/2016 – 6/29/2016.