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Construction Permit Revisions and Changes

Permit No.	Public Notice Date	Issue Date	Change Type	Description/Scope
C-0011-21-0017-V	04/24/2021	05/26/2021	Initial	Initial issuance of construction

Application and Related Documents

Document Number	Date	Description
189299	2/10/2021	Discussion concerning Rental Boiler
189313 189302	2/11/2021	Further Discussion about Rental Boiler
203006	3/23/2021	Extension Request for 40 CFR 63 Subpart DDDDDDD
203005	3/23/2021	Application for Temporary Mobile Natural Gas Boiler

Abbreviations and Acronyms

AP-42	- AP-42, <i>Compilation of Air Pollutant Emission Factors, published by U.S.EPA</i>
APCD	- Louisville Metro Air Pollution Control District
BAC	- Benchmark Ambient Concentration
BACT	- Best Available Control Technology
Btu	- British thermal unit
CEMS	- Continuous Emission Monitoring System
CFR	- Code of Federal Regulations
CO	- Carbon monoxide
District	- Louisville Metro Air Pollution Control District
EA	- Environmental Acceptability
gal	- U.S. fluid gallons
GHG	- Greenhouse Gas
HAP	- Hazardous Air Pollutant
Hg	- Mercury
hr	- Hour
in.	- Inches
lbs	- Pounds
l	- Liter
LMAPCD	- Louisville Metro Air Pollution Control District
mmHg	- Millimeters of mercury column height
MM	- Million
(M)SDS	- (Material) Safety Data Sheet
NAICS	- North American Industry Classification System
NO _x	- Nitrogen oxides
PM	- Particulate Matter
PM ₁₀	- Particulate Matter less than 10 microns
PM _{2.5}	- Particulate Matter less than 2.5 microns
ppm	- parts per million
PSD	- Prevention of Significant Deterioration
psia	- Pounds per square inch absolute
QA	- Quality Assurance
RACT	- Reasonably Available Control Technology
SIC	- Standard Industrial Classification
SIP	- State Implementation Plan
SO ₂	- Sulfur dioxide
STAR	- Strategic Toxic Air Reduction
TAC	- Toxic Air Contaminant
UTM	- Universal Transverse Mercator
VOC	- Volatile Organic Compound
w.c.	- Water column
year	- Any period of twelve consecutive months, unless "calendar year" is specified
yr	- Year, or any 12 consecutive-month period, as determined by context

Preamble

This permit covers only the provisions of Kentucky Revised Statutes Chapter 77 Air Pollution Control, the regulations of the Louisville Metro Air Pollution Control District (District) and, where appropriate, certain federal regulations. The issuance of this permit does not exempt any owner or operator to whom it has been issued from prosecution on account of the emission or issuance of any air contaminant caused or permitted by such owner or operator in violation of any of the provisions of KRS 77 or District regulations. Any permit shall be considered invalid if timely payment of annual fees is not made. The permit contains general permit conditions and specific permit conditions. General conditions are applicable unless a more stringent requirement is specified elsewhere in the permit.

General Conditions

- G1. The owner or operator of the affected facility covered by this permit shall notify the District of any process change, equipment change, material change, or change in method or hours of operation. This requirement is applicable to those changes (except equipment changes) that may have the potential for increasing the emission of air contaminants to a level in excess of the applicable limits or standards specified in this permit or District regulations.
- G2. The owner or operator shall obtain new or revised permits from the District in accordance with District Regulation 2.16 for Title V sources, District Regulation 2.17 for FEDOOP sources or District Regulation 2.03 for other sources including:
 - a. The company relocates to a different physical address.
 - b. The ownership of the company is changed.
 - c. The name of the company as shown on the permit is changed.
 - d. Permits are nearing expiration or have expired.
- G3. The owner or operator shall submit a timely application for changes according to G2. Timely renewal is not always achievable; therefore, the company is hereby authorized to continue operation in compliance with the latest District permit(s) until the District issues the renewed permit(s).
- G4. The owner or operator shall not be authorized to transfer ownership or responsibility of the permit. The District may transfer permits after appropriate notification (Form AP- 100A) has been received and review has been made.
- G5. The owner or operator shall pay the required permit fees within 45 days after issuance of the SOF by the District, unless other arrangements have been proposed and accepted by the District.
- G6. This permit allows operation 8,760 hours per year unless specifically limited elsewhere in this permit.
- G7. The owner or operator shall submit emission inventory reports as required by Regulation 1.06.
- G8. The owner or operator shall timely report abnormal conditions or operational changes, which may cause excess emissions as required by Regulation 1.07.
- G9. Unless specified elsewhere in this permit, the owner or operator shall complete required monthly record keeping within 30 days following the end of each calendar month.
- G10. If a change in the Responsible Official (RO) occurs during the term of this permit, the owner or operator shall provide written notification (Form AP-100A) to the District within 30 calendar days of the date the RO change occurs.

- G11. **Other Applicable Regulations** - The owner or operator shall comply with all applicable requirements of the following:

Regulation	Title
1.01	General Application of Regulations and Standards
1.02	Definitions
1.03	Abbreviations and Acronyms
1.04	Performance Tests
1.05	Compliance With Emissions Standards And Maintenance Requirements
1.06	Source Self-Monitoring, Emission Inventory Development and Reporting
1.07	Excess Emissions During Startups, Shutdowns, and Upset Conditions
1.08	Administrative Procedures
1.09	Prohibition of Air Pollution
1.10	Circumvention
1.11	Control of Open Burning
1.14	Control of Fugitive Particulate Emissions
1.18	Rule Effectiveness
1.19	Administrative Hearings
2.01	General Application (Permit Requirements)
2.02	Air Pollution Regulation Requirements and Exemptions
2.03	Authorization to Construct or Operate; Demolition/Renovation Notices and Permit Requirements
2.04	Construction or Modification of Major Sources in or Impacting Upon Non-Attainment Areas (Emission Offset Requirements)
2.05	Prevention of Significant Deterioration
2.06	Permit Requirements – Other Sources
2.07	Public Notification for Title V, PSD, and Other Offset Permits; SIP Revisions; and Use of Emission Reduction Credits
2.09	Causes for Permit Modification, Revocation, or Suspension
2.10	Stack Height Considerations
2.11	Air Quality Model Usage
3.01	Ambient Air Quality Standards
4.01	General Provisions for Emergency Episodes
4.02	Episode Criteria
4.03	General Abatement Requirements
4.04	Particulate and Sulfur Dioxide Reduction Requirements
4.05	Hydrocarbon and Nitrogen Oxides Reduction Requirements
4.06	Carbon Monoxide Reduction Requirements
4.07	Episode Reporting Requirements
6.01	General Provisions (Existing Affected Facilities)
6.02	Emission Monitoring for Existing Sources
7.01	General Provisions (New Affected Facilities)

District Only Enforceable Regulations:

Regulation	Title
1.12	Control of Nuisances
1.13	Control of Objectionable Odors
2.08	Emission Fee, Permit Fees and Permit Renewal Procedures
2.16	Title V Operating Permits
5.00	Definitions
5.01	General Provisions
5.02	Adoption and Incorporation by Reference of National Emission Standards for Hazardous Air Pollutants
5.14	Hazardous Air Pollutants and Source Categories
5.15	Chemical Accident Prevention Provisions
5.20	Methodology for Determining Benchmark Ambient Concentration of a Toxic Air Contaminant
5.21	Environmental Acceptability for Toxic Air Contaminants
5.22	Procedures for Determining the Maximum Ambient Concentration of a Toxic Air Contaminant
5.23	Categories of Toxic Air Contaminants
7.02	Adoption and Incorporation by Reference of Federal New Source Performance Standards

Emission Unit U4: Power House**Applicable Regulations**

FEDERALLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
2.04	Construction or Modification of Major Sources In or impacting Upon Non-Attainment Areas (Emission Offset Requirements)	1 through 10
2.05	Prevention of Significant Deterioration of Air Quality	1 through 20
7.06	Standards of Performance for New Indirect Heat Exchangers	1 through 6
40 CFR 60 Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	60.40c through 60.48c
40 CFR 63 Subpart DDDD	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters	63.7480 through 63.7575

DISTRICT ONLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
5.00	Definitions	1, 2
5.01	General Provisions	1 through 2
5.02	Adoption and Incorporation by Reference of National Emission Standards for Hazardous Air Pollutants	1 through 5
5.20	Methodology for Determining Benchmark Ambient Concentration of a Toxic Air Contaminant	1 through 6
5.21	Environmental Acceptability for Toxic Air Contaminants	1 through 5
5.22	Procedures for Determining the Maximum Ambient Concentration of a Toxic Air Contaminant	1 through 5
5.23	Categories of Toxic Air Contaminants	1 through 6
7.02	Adoption of Federal New Source Performance Standards	1 through 5
STAR regulations are 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23		

Equipment

Emission Point	Description	Install Date	Applicable Regulations	Control ID	Release ID
MNGB-01	Mobile Natural Gas Boiler, rated capacity 99 MMBtu/hr	To be installed 6/1/2021	2.04, 2.05, STAR, 7.06, 40 CFR 60 Subpart Dc, 40 CFR 63 Subpart DDDDD ¹	N/A	S-MNGB-01

¹ This temporary boiler is part of the construction project of installing new NG boilers B5, B6, B7 and removing existing Boilers #1, #2, #3, and #4. Therefore, these boilers are subject to the PSD/NSR avoidance limits for CO, NO_x, PM/PM10/PM2.5, SO₂, and VOC established by Construction Permit C-0011-0028-19-V(R1).

U4 Specific Conditions

S1. Standards

[Regulation 2.03, section 6.1]

a. CO

- i. The owner or operator shall not allow or cause to allow the combined emissions of CO resulting from the operation of the U4 power house boilers (Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01) to exceed 356 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]
- ii. The owner or operator shall not allow or cause to allow the emissions of CO resulting from the operation of B5, B6, B7 and MNGB-01 boilers combined to exceed 216 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]

b. HAP

- i. For B5, B6, B7 and MNGB-01 the owner or operator shall comply with the applicable standards pursuant to 40 CFR Part 63 Subpart DDDDD. (See Appendix A)

c. NOx

- i. The owner or operator shall not allow or cause to allow the combined emissions of NOx resulting from the operation of the U4 power house boilers (Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01) to exceed 411 tons during any consecutive 12 month period in order to maintain emissions below the significant emission rate for non-attainment NSR of Ozone. [District Permit C-0011-028-19-V(R1)]
- ii. The owner or operator shall not allow or cause to allow the combined emissions of NOx resulting from the operation of the U4 power house boilers (Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01) to exceed 534 tons during any consecutive 12 month period in order to maintain emissions below the significant emission rate for PSD of NOx. [District Permit C-0011-028-19-V(R1)]²
- iii. The owner or operator shall not allow or cause to allow the emissions of NOx resulting from the operation of B5, B6, B7 and MNGB-01 boilers combined to exceed 95 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]

² Compliance with the 411 ton limit for Regulation 2.04 will be sufficient to demonstrate compliance with the 534 ton limit for Regulation 2.05.

d. Opacity

- i. For MNGB-01 the owner or operator shall not allow or cause to be discharged into the atmosphere from any affected facility particulate matter emissions which exhibit greater than 20% opacity.
[Regulation 7.06, section 4.2]³

e. PM/PM₁₀/PM_{2.5}

- i. The owner or operator shall not allow or cause to allow the combined emissions of PM resulting from the operation of the U4 power house boilers (Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01) to exceed 79 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]
- ii. The owner or operator shall not allow or cause to allow the emissions of PM resulting from the operation of B5, B6, B7 and MNGB-01 boilers combined to exceed 1.3 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]
- iii. The owner or operator shall not allow or cause to allow the combined emissions of PM₁₀ resulting from the operation of the U4 power house boilers (Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01) to exceed 61 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]
- iv. The owner or operator shall not allow or cause to allow the emissions of PM₁₀ resulting from the operation of B5, B6, B7 and MNGB-01 boilers combined to exceed 1.3 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]
- v. The owner or operator shall not allow or cause to allow the combined emissions of PM_{2.5} resulting from the operation of the U4 power house boilers (Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01) to exceed 54 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]
- vi. The owner or operator shall not allow or cause to allow the emissions of PM_{2.5} resulting from the operation of B5, B6, B7 and MNGB-01 boilers combined to exceed 1.1 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]
- vii. When combusting natural gas, the owner or operator shall not cause to be discharged into the atmosphere PM emissions from Boiler MNGB-01 that exceed 0.10 lb/MMBtu actual heat input based on a 30 day-rolling average.

³ There is no opacity standard for Boiler MNGB-01 in 40 CFR 60 Subpart Dc since they are natural gas only.

[Regulation 7.06, section 4.1.2]

f. SO₂

- i. The owner or operator shall not allow or cause to allow the combined emissions of SO₂ resulting from the operation of the U4 power house boilers (Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01) to exceed 164 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]
- ii. The owner or operator shall not allow or cause to allow the emissions of SO₂ resulting from the operation of B5, B6, B7 and MNGB-01 boilers combined to exceed 1.5 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]
- iii. When combusting natural gas, the owner or operator shall not allow the SO₂ emissions from Boiler MNGB-01 to exceed 0.8 lb/MMBtu actual heat input based on a 30-day rolling average.
[Regulation 7.06, section 5.1.2]

g. TAC⁴

- i. The owner or operator shall not allow emissions of any TAC to exceed environmentally acceptable (EA) levels, whether specifically established by modeling or determined by the District to be *de minimis*.
[Regulations 5.00 and 5.21]
- ii. The owner or operator shall perform a new Environmental Acceptability (EA) Demonstration or *de minimis* determination when the following events occur and submit the EA Demonstration on the schedule noted in the reporting section:⁵
 - (1) An application to construct or modify a process or process equipment is submitted to the District pursuant to Regulation 2.03, 2.04 or 2.05. [Regulation 5.21, section 4.22.1]
 - (2) A modification of any physical modeling parameters such as fence lines or building heights that are not otherwise subject to the requirements in this permit that affects the demonstration of compliance. [Regulation 5.21, section 4.22.2]; or

⁴ MNGB-01 is *de minimis* for TACs, by definition, per District Regulation 5.21 section 2.7 since it is a natural gas only boiler.

⁵ Changes to the air dispersion modeling program or meteorological data used in the most recent Environmental Acceptability Demonstration do not trigger the requirement to perform a new Environmental Acceptability Demonstration.

- (3) A change occurs in the process or process equipment, including raw material or fuel type substitution.
[Regulation 5.21, section 4.22.3]

- iii. When a new TAC is introduced or for any existing TAC which does not have an established BAC or *de minimis* value, the owner or operator shall calculate and report these values as part of any aforementioned EA Demonstration. The form, located in Appendix D, may be used for determining BAC and *de minimis* values.
[Regulation 5.20, sections 3 and 4]

h. VOC

- i. The owner or operator shall not allow or cause to allow the combined emissions of VOC resulting from the operation of the U4 power house boilers (Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01) to exceed 42 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]⁶
- ii. The owner or operator shall not allow or cause to allow the emissions of VOC resulting from the operation of B5, B6, B7 and MNGB-01 boilers combined to exceed 14 tons during any consecutive 12 month period.
[District Permit C-0011-028-19-V(R1)]

S2. Monitoring and Record Keeping

[Regulation 2.03, section 6.1]

The owner or operator shall maintain the following records for a minimum of five years and make the records readily available to the District upon request.

a. CO

- i. The owner or operator shall, monthly, calculate and record the previous 12-consecutive month emissions of CO from Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month CO standard.
- ii. The owner or operator shall, monthly, calculate and record the previous 12-consecutive month emissions of CO from B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month CO standard.

b. HAP

⁶ Since the source is in an area currently non-attainment for Ozone, VOC and NOx have been given limits per District Regulation 2.04; however, VOC is not a PSD specific pollutant and has not been given a separate limit under District Regulation 2.05.

- i. For Boilers B5, B6, B7 and MNGB-01 the owner or operator shall comply with the applicable compliance monitoring and record keeping requirements pursuant to 40 CFR Part 63 Subpart DDDDD. (See Appendix A)
- c. NO_x**
- i. The owner or operator shall, monthly, calculate and record the previous 12-consecutive month emissions of NO_x from Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month NO_x standard.
 - ii. The owner or operator shall, monthly, calculate and record the previous 12-consecutive month emissions of NO_x from B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month NO_x standard.
- d. Opacity**
- i. There are no Opacity compliance monitoring, record keeping, or reporting requirements.
- e. PM/PM₁₀/PM_{2.5}**
- i. The owner or operator shall, monthly, calculate and record the previous 12-consecutive month emissions of PM/PM₁₀/PM_{2.5} from Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month PM/PM₁₀/PM_{2.5} standard.
 - ii. The owner or operator shall, monthly, calculate and record the previous 12-consecutive month emissions of PM/PM₁₀/PM_{2.5} from B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month PM/PM₁₀/PM_{2.5} standard.
- f. SO₂**
- i. The owner or operator shall, monthly, calculate and record the previous 12-consecutive month emissions of SO₂ from Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month SO₂ standard.
 - ii. The owner or operator shall, monthly, calculate and record the previous 12-consecutive month emissions of SO₂ from B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month SO₂ standard.
 - iii. The owner or operator of an affected facility that combusts only natural gas,

wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month. [40 CFR 60.48c(g)(2)]

g. TAC

- i. The owner or operator shall maintain records sufficient to demonstrate environmental acceptability, including, but not limited to (M)SDS, analysis of emissions, and/or modeling results.

h. VOC

- i. The owner or operator shall, monthly, calculate and record the previous 12-consecutive month emissions of VOC from Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month VOC standard.
- ii. The owner or operator shall, monthly, calculate and record the previous 12-consecutive month emissions of VOC from B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month VOC standard.

S3. Reporting

[Regulation 2.03, section 6.1]

The owner or operator shall submit semi-annual compliance reports that include the information in this section. All reports shall include the company name, plant ID number, and the beginning and ending date of the reporting period. The compliance reports shall clearly identify any deviation from a permit requirement or a declaration that there were no such deviations. The compliance reports shall be postmarked within 60 days following the end of each reporting period. All compliance reports shall include the following certification statement per Regulation 2.16, section 3.5.11.

- “Based on information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate, and complete”.
- Signature and title of the responsible official of the company.

The compliance reports are due on or before the following dates of each calendar year:

<u>Reporting Period</u>	<u>Report Due Date</u>
January 1 st through June 30 th	August 29 th
July 1 st through December 31 st	March 1 st

a. CO

- i. For Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01

combined to show compliance with the tons per 12 consecutive month limit:

- (1) Emission Unit ID number, and/or Emission point ID number;
- (2) Identification of all periods of exceedance of the CO limits;
- (3) Description of any corrective action taken for each exceedance.

ii. For B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month limit:

- (1) Emission Unit ID number, and/or Emission point ID number;
- (2) Identification of all periods of exceedance of the CO limits;
- (3) Description of any corrective action taken for each exceedance.

b. HAP

i. The owner or operator shall comply with the applicable reporting requirements pursuant to 40 CFR Part 63 Subpart DDDDD.
(See Appendix A)

c. Notification requirements [40 CFR 60, Subpart Dc]

i. The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup, as provided by §60.7 of this part. This notification shall include: [40 CFR 60.48c(a)]

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
[40 CFR 60.48c(a)(1)]

d. NO_x

i. For Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month limit:

- (1) Emission Unit ID number, and/or Emission point ID number;
- (2) Identification of all periods of exceedance of the NO_x limits;
- (3) Description of any corrective action taken for each exceedance.

ii. For B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month limit:

- (1) Emission Unit ID number, and/or Emission point ID number;
- (2) Identification of all periods of exceedance of the NO_x limits;
- (3) Description of any corrective action taken for each exceedance.

e. Opacity

- i. There are no compliance reporting requirements for any of the boilers.

f. PM/PM₁₀/PM_{2.5}

- i. For Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month limits:
 - (1) Emission Unit ID number, and/or Emission point ID number;
 - (2) Identification of all periods of exceedance of the PM, PM₁₀, or PM_{2.5} limits;
 - (3) Description of any corrective action taken for each exceedance.
- ii. For B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month limits:
 - (1) Emission Unit ID number, and/or Emission point ID number;
 - (2) Identification of all periods of exceedance of the PM, PM₁₀, or PM_{2.5} limits;
 - (3) Description of any corrective action taken for each exceedance.

g. SO₂

- i. For Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month limit:
 - (1) Emission Unit ID number, and/or Emission point ID number;
 - (2) Identification of all periods of exceedance of the SO₂ limits;
 - (3) Description of any corrective action taken for each exceedance.
- ii. For B5, B6, and B7 combined to show compliance with the tons per 12 consecutive month limit:
 - (1) Emission Unit ID number, and/or Emission point ID number;
 - (2) Identification of all periods of exceedance of the SO₂ limits;
 - (3) Description of any corrective action taken for each exceedance.

h. TAC

- i. The owner or operator shall submit new EA Demonstrations involving applications to construct or modify with the construction permit application. [Regulation 5.21, section 4.22.1]
- ii. The owner or operator shall submit new EA Demonstrations involving modification of any physical modeling parameter, such as fence lines or building heights, that are not otherwise subject to the permit requirements

for that facility that affects the demonstration of compliance with the operating permit renewal application. [Regulation 5.21, section 4.22.2]

- iii. The owner or operator shall submit new EA Demonstrations involving a change in a process or process equipment, including raw material or fuel type substitution before making the change.
[Regulation 5.21, section 4.22.3]
 - (1) Prior approval by the District is not required if the change does not result in emissions that exceed an EA goal, does not cause emissions of a TAC to no longer be de minimis, and a permit modification is not required. In this case, the new EA Demonstration shall be submitted within 6 months of the change.

i. Unit Operations

- i. The owner or operator shall notify the District in writing within 30 calendar days of the permanent decommissioning of each Boiler #1, #2, #3, and #4.

j. VOC

- i. For Boiler #1, Boiler #2, Boiler #3, Boiler #4, B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month limit:
 - (1) Emission Unit ID number, and/or Emission point ID number;
 - (2) Identification of all periods of exceedance of the VOC limits;
 - (3) Description of any corrective action taken for each exceedance.
- ii. For B5, B6, B7 and MNGB-01 combined to show compliance with the tons per 12 consecutive month limit:
 - (1) Emission Unit ID number, and/or Emission point ID number;
 - (2) Identification of all periods of exceedance of the SO₂ limits;
 - (3) Description of any corrective action taken for each exceedance.

Appendix A: 40 CFR 63 Subpart DDDDD

National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

S1. Standards

[Regulation 2.03, section 6.1]

a. HAP

- i. You must meet each emission limit and work practice standard in Tables 1 through 3, and 11 through 13 in 40 CFR 63 Subpart DDDDD that applies to your boiler or process heater, for each boiler or process heater at your source, except as provided under 40 CFR 63.7522. The output-based emission limits, in units of pounds of million Btu of steam output, in Tables 1 or 2 are an alternative applicable only to boilers and process heaters that generate steam. [40 CFR 63.7500(a)(1)]⁷

Table 3 to 40 CFR 63 Subpart DDDDD – Work Practice Standards

If your unit is . . .	You must meet the following . . .
1. A new or existing boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio, or a heat input capacity of less than or equal to 5 million Btu per hour in any of the following subcategories: unit designed to burn gas 1; unit designed to burn gas 2 (other); or unit designed to burn light liquid, or a limited use boiler or process heater	Conduct a tune-up of the boiler or process heater every 5 years as specified in §63.7540.
3. A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater	Conduct a tune-up of the boiler or process heater annually as specified in §63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions under this subpart. Units in all other subcategories will conduct this tune-up as a work practice for dioxins/furans.

- ii. At all times, you must operate and maintain any affected source (as defined in 40 CFR 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be

⁷ The compliance date for this source is January 31, 2016.

based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.7500(a)(3)]

S2. Monitoring and Record Keeping
[Regulation 2.03, section 6.1]

a. HAP

- i. If you have a new or reconstructed boiler or process heater, you must comply with this subpart by April 1, 2013, or upon startup of your boiler or process heater, whichever is later.⁸ [40 CFR 63.7495(a)]
- ii. You must be in compliance with the emission limits, work practice standards, and operating limits in this subpart. These emission and operating limits apply to you at all times the affected unit is operating except for the periods noted in 40 CFR 63.7500(f). [40 CFR 63.7505(a)]
- iii. A copy of each notification and report that you submitted to comply with 40 CFR 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.7555(a)(1)]
- iv. Your records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). [40 CFR 63.7560(a)]
- v. As specified in 40 CFR 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.7560(b)]
- vi. You must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). You can keep the records off site for the remaining 3 years. [40 CFR 63.7560(c)]

S3. Reporting
[Regulation 2.03, section 6.1]

a. HAP

- i. You must meet the notification requirements in §63.7545 according to the

⁸ The District has approved the extension request submitted by the company on 03/23/2021. The extension is approved until December 31, 2023.

schedule in §63.7545 and in subpart A of this part. Some of the notifications must be submitted before you are required to comply with the emission limits and work practice standards in this subpart. [40 CFR 63.7495(d)]

- ii. A signed certification that you have met all applicable emission limits and work practice standards. [40 CFR 63.7545(e)(6)]
- iii. If you had a deviation from any emission limit, work practice standard, or operating limit, you must also submit a description of the deviation, the duration of the deviation, and the corrective action taken in the Notification of Compliance Status report.
[40 CFR 63.7545(e)(7)]
- iv. In addition to the information required in 40 CFR 63.9(h)(2), your notification of compliance status must include the following certification(s) of compliance, as applicable, and signed by a responsible official: [40 CFR 63.7545(e)(8)]
 - (1) “This facility completed the required initial tune-up for all the boilers and process heaters covered by 40 CFR 63 subpart DDDDD at this site according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi).”
[40 CFR 63.7545(e)(8)(i)]
 - (2) “This facility has had an energy assessment performed according to 40 CFR 63.7530(e).”
[40 CFR 63.7545(e)(8)(ii)]
 - (3) Except for units that burn only natural gas, refinery gas, or other gas 1 fuel, or units that qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act, include the following: “No secondary materials that are solid waste were combusted in any affected unit.”
[40 CFR 63.7545(e)(8)(iii)]
- v. If you have switched fuels or made a physical change to the boiler or process heater and the fuel switch or physical change resulted in the applicability of a different subcategory, you must provide notice of the date upon which you switched fuels or made the physical change within 30 days of the switch/change. The notification must identify: [40 CFR 63.7545(h)]
 - (1) The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice. [40 CFR 63.7545(h)(1)]
 - (2) The currently applicable subcategory under 40 CFR 63 Subpart DDDDD. [40 CFR 63.7545(h)(2)]
 - (3) The date upon which the fuel switch or physical change occurred.

[40 CFR 63.7545(h)(3)]

- vi. You must submit each report in Table 9 to 40 CFR 63 Subpart DDDDD that applies to you: (40 CFR 63.7550(a))

Table 9 to Subpart DDDDD of Part 63 – Reporting Requirements:

You must submit a(n)	The report must contain...	You must submit the report...
Compliance Report	a. Information required in 40 CFR 63.7550(c)(1) through (5); and	Semiannually, annually, biennially, or every 5 years according to the requirements in 40 CFR 63.7550(b))
	b. If there are no deviations from any emission limitation (emission limit and operating limit) that applies to you and there are no deviations from the requirements for work practice standards for periods or startup and shutdown in Table 3 to 40 CFR 63 Subpart DDDDD that apply to you, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period; and	
	c. If you have a deviation from any emission limitation (emission limit and operating limit) where you are not using a CMS to comply with that emission limit or operating limit, or a deviation from a work practice standard for periods of startup and shutdown during the reporting period, the report must contain the information in 40 CFR 63.7550(d); and	
	d. If there were periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control as specified in 40 CFR 63.8(c)(7), or otherwise not operating, the report must contain the information in 40 CFR 63.7550(e)	

- vii. Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), you must submit each report, according to paragraph (h) of this section, by the date in Table 9 to 40 CFR 63 Subpart DDDDD and according to the requirements in paragraphs (b)(1) through (4) of this section. For units that are subject only to a requirement

to conduct an annual, biennial, or 5-year tune-up according to 40 CFR 63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or Table 4 operating limits, you may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in 40 CFR 63.7550(b)(1) through (4), instead of a semi-annual compliance report. [40 CFR 63.7550(b)]

- 1) The first semi-annual compliance report must cover the period beginning on the compliance date of January 31, 2016, that is specified for each boiler or process heater in 40 CFR 63.7495 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date of January 31, 2016, that is specified for your source in 40 CFR 63.7495. If submitting an annual, biennial, or 5-year compliance report, the first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in § 63.7495 and ending on December 31 within 1, 2, or 5 years, as applicable, after the compliance date that is specified for your source in 40 CFR 63.7495. [40 CFR 63.7550(b)(1)]
- 2) The first semi-annual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date of January 31, 2016, that is specified for each boiler or process heater in 40 CFR 63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31. [40 CFR 63.7550(b)(2)]
- 3) Each subsequent semi-annual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31. [40 CFR 63.7550(b)(3)]
- 4) Each subsequent semi-annual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31. [40 CFR 63.7550(b)(4)]
- 5) For each affected source that is subject to permitting regulations pursuant to part 70 or part 71 of this chapter, and if the permitting authority has established dates for submitting semi-annual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established in the permit instead

of according to the dates in paragraphs (b)(1) through (4) of 40 CFR 63.7550. [40 CFR 63.7550(b)(5)]

- viii. A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule. (40 CFR 63.7550(c))
- 6) If the facility is subject to the requirements of a tune you must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii) of 40 CFR 63.7550, (xiv) and (xvii) of 40 CFR 63.7550, and paragraph (c)(5)(iv) of 40 CFR 63.7550 for limited-use boiler or process heater. [40 CFR 63.7550(c)(1)]
 - 7) The specific reporting requirements are as follows:
 - (a) Company and Facility name and address. [40 CFR 63.7550(c)(5)(i)]
 - (b) Process unit information, emissions limitations, and operating parameter limitations. [40 CFR 63.7550(c)(5)(ii)]
 - (c) Date of report and beginning and ending dates of the reporting period. [40 CFR 63.7550(c)(5)(iii)]
 - (d) The total operating time during the reporting period. [40 CFR 63.7550(c)(5)(iv)]
 - (e) The total fuel use by each individual boiler or process heater subject to an emission limit within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by the EPA or your basis for concluding that the fuel is not a waste, and the total fuel usage amount with units of measure. [40 CFR 63.7550(c)(5)(vi)]
 - (f) A statement indicating that you burned no new types of fuel in an individual boiler or process heater subject to an emission limit. Or, if you did burn a new type of fuel and are subject to a HCl emission limit, you must submit the calculation of chlorine input, using Equation 7 of 40 CFR 63.7530, that demonstrates that your source is still within its maximum chlorine input level established during the previous performance testing (for sources that demonstrate compliance through performance testing) or you must submit the calculation of HCl emission rate using Equation 16 of 40 CFR 63.7530 that demonstrates that your source is still meeting the emission limit for HCl emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel and are subject to a mercury emission limit, you must submit the calculation of mercury input, using Equation 8 of 40 CFR

63.7530, that demonstrates that your source is still within its maximum mercury input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of mercury emission rate using Equation 17 of 40 CFR 63.7530 that demonstrates that your source is still meeting the emission limit for mercury emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel and are subject to a TSM emission limit, you must submit the calculation of TSM input, using Equation 9 of 40 CFR 63.7530, that demonstrates that your source is still within its maximum TSM input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of TSM emission rate, using Equation 18 of 40 CFR 63.7530, that demonstrates that your source is still meeting the emission limit for TSM emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). [40 CFR 63.7550(c)(5)(viii)]

- (g) If a malfunction occurred during the reporting period, the report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by you during a malfunction of a boiler, process heater, or associated air pollution control device or CMS to minimize emissions in accordance with § 63.7500(a)(3), including actions taken to correct the malfunction. (40 CFR 63.7550(c)(5)(xiii))
- (h) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to 40 CFR 63.7540(a)(10), (11), or (12) respectively. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown. (40 CFR 63.7550(c)(5)(xiv))
- (i) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. (40 CFR 63.7550(c)(5)(xvii))
- (j) For each instance of startup or shutdown include the information required to be monitored, collected, or recorded

according to the requirements of 40 CFR 63.7555(d). (40 CFR 63.7550(c)(5)(xviii))

- 8) You must submit all reports required by Table 9 of 40 CFR 63 Subpart DDDDD electronically to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX.) You must use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, you may submit an alternate electronic file consistent with the XML schema listed on the CEDRI website (<http://www.epa.gov/ttn/chief/cedri/index.html>), once the XML schema is available. If the reporting form specific to 40 CFR 63 Subpart DDDDD is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI.

Appendix B: Calculation Methodology or Other Approved Method

Equipment	Emission Pt.	Pollutant	Emission Factor	EF Units	Determination Method
Mobile Natural Gas Boiler 01	E-U4 MNGB-01	NOx	37.1	lb/mmcf	Vendor w/ LNB & FGR
		CO	84	lb/mmcf	AP-42, 1.4-1
		PM	0.52	lb/mmcf	2011 NEI, EPA
		PM10	0.52	lb/mmcf	2011 NEI, EPA
		PM2.5	0.43	lb/mmcf	2011 NEI, EPA
		PM/PM10/PM2.5 condensable	0.32	lb/mmcf	2011 NEI, EPA
		PM10 filterable	0.20	lb/mmcf	2011 NEI, EPA
		PM2.5 filterable	0.11	lb/mmcf	2011 NEI, EPA
		SO2	0.6	lb/mmcf	AP-42, 1.4-2
		VOC	5.5	lb/mmcf	AP-42, 1.4-2
		Ammonia (NH3)	0.49	lb/mmcf	2011 NEI, EPA
		2-Methylnaphthalene	2.40E-05	lb/mmcf	AP-42, 1.4-3
		3-Methylchloranthrene	1.80E-06	lb/mmcf	AP-42, 1.4-3
		DMBA	1.60E-05	lb/mmcf	AP-42, 1.4-3
		Acenaphthene	1.80E-06	lb/mmcf	AP-42, 1.4-3
		Acenaphthylene	1.80E-06	lb/mmcf	AP-42, 1.4-3
		Anthracene	2.40E-06	lb/mmcf	AP-42, 1.4-3
		Benz(a)anthracene	1.80E-06	lb/mmcf	AP-42, 1.4-3
		Benzene	2.10E-03	lb/mmcf	AP-42, 1.4-3
		Benzo(a)pyrene	1.20E-06	lb/mmcf	AP-42, 1.4-3
		Benzo(b)fluoranthene	1.80E-06	lb/mmcf	AP-42, 1.4-3
		Benzo(g,h,i)perylene	1.20E-06	lb/mmcf	AP-42, 1.4-3
		Benzo(k)fluoranthene	1.80E-06	lb/mmcf	AP-42, 1.4-3
		Chrysene	1.80E-06	lb/mmcf	AP-42, 1.4-3
		Dibenzo(a,h)anthracene	1.20E-06	lb/mmcf	AP-42, 1.4-3
		Dichlorobenzene	1.20E-03	lb/mmcf	AP-42, 1.4-3
		Fluoranthene	3.00E-06	lb/mmcf	AP-42, 1.4-3
		Fluorene	2.80E-06	lb/mmcf	AP-42, 1.4-3
		Formaldehyde	7.50E-02	lb/mmcf	AP-42, 1.4-3
		Hexane	1.80E+00	lb/mmcf	AP-42, 1.4-3
		Indeno(1,2,3-cd)pyrene	1.80E-06	lb/mmcf	AP-42, 1.4-3
		Naphthalene	6.10E-04	lb/mmcf	AP-42, 1.4-3
		Phenanathrene	1.70E-05	lb/mmcf	AP-42, 1.4-3
		Pyrene	5.00E-06	lb/mmcf	AP-42, 1.4-3
		Toluene	3.40E-03	lb/mmcf	AP-42, 1.4-3
		Arsenic	2.00E-04	lb/mmcf	AP-42, 1.4-4
		Beryllium	1.20E-05	lb/mmcf	AP-42, 1.4-4
		Cadmium	1.10E-03	lb/mmcf	AP-42, 1.4-4
		Chromium	1.40E-03	lb/mmcf	AP-42, 1.4-4
		Cobalt	8.40E-05	lb/mmcf	AP-42, 1.4-4
Lead	5.00E-04	lb/mmcf	AP-42, 1.4-2		
Manganese	3.80E-04	lb/mmcf	AP-42, 1.4-4		
Mercury	2.60E-04	lb/mmcf	AP-42, 1.4-4		
Nickel	2.10E-03	lb/mmcf	AP-42, 1.4-4		
Selenium	2.40E-05	lb/mmcf	AP-42, 1.4-4		
CO2 (GWP1)	116.9	lb/mmBtu	40CFR98, T-C1		
Methane (CH4) (GWP25)	0.00221	lb/mmBtu	40CFR98, T-C2		
N2O (GWP 310)	0.000221	lb/mmBtu	40CFR98, T-C2		

Appendix C: Determination of Benchmark Ambient Concentration (BAC)

Category _____ Number _____

Compound name _____ CAS No. _____

Molecular weight _____

BAC_C = _____ μg/m³, annual
de minimis _____ lb/hr; _____ lb/_____; _____ lb/year

I. Carcinogen Risk - BAC_C (annual averaging period)

Carcinogen YES NO

1. IRIS 10⁻⁶ risk = _____ μg/m³ URE = _____ (μg/m³)⁻¹ Date _____
2. Cal 10⁻⁶ risk = _____ μg/m³ IUR = _____ (μg/m³)⁻¹ Date _____
3. Mich 10⁻⁶ risk = _____ μg/m³ Date _____
4. NTP Part A YES NO Part B YES NO
5. IARC Group 1 YES NO Group 2A YES NO Group 2B YES NO
6. ATSDR
7. Sec. 3.3.4 Method # _____ 10⁻⁶ risk = _____ μg/m³ Date _____
8. Default 0.0004 μg/m³

II. Chronic Noncancer Risk - BAC_{NC} (averaging period as specified)

1. IRIS RfC = _____ μg/m³, annual Date _____
2. Cal REL = _____ μg/m³, annual Date _____
3. IRIS [1] RfD = _____ μg/kg/day × (70/20) = _____ μg/m³, annual Date _____
4. Mich ITSL = _____ μg/m³, _____ averaging period Date _____
5. TLV NIOSH = _____ μg/m³ × 0.01 = _____ μg/m³, 8-hour Date _____
6. RTECS [1] _____ = _____ μg/m³, annual Date _____
 (describe calculation from Reg 5.20, sections 4.6 - 4.10)
7. Default 0.004 μg/m³

[1] To use data based upon an oral route of exposure, the District must make an affirmative determination that data are not available to indicate that oral-route to inhalation-route extrapolation is inappropriate.

III. De minimis calculations

1. Carcinogen BAC_C _____ μg/m³ × 0.54 = _____ lb/hour
 BAC_C _____ μg/m³ × 480 = _____ lb/year
2. Chronic Noncancer Risk _____ (averaging period)
 BAC_{NC} _____ μg/m³ × F factor = _____ lb/(avg period)

BAC averaging period	F factor for avg period			
	Annual	24 hour	8 hour	1 hour
Annual	480			0.54
24 hours		0.12		0.05
8 hours			0.02	0.02
1 hour				0.001

[Regulation 5.22, table 1]

Prepared by _____ Date _____

Fee Comment

The following permit fees are due prior to permit issuance:

Title V Construction	\$	2728.69
Major source MACT review	\$	1091.47
NSPS review	\$	1091.47
<u>STAR review</u>	<u>\$</u>	<u>545.80</u>
Total	\$	5457.43