

**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
AIR QUALITY DIVISION**

August 31, 2021

PERMIT TO INSTALL
62-21

ISSUED TO
Detroit Thermal Beacon Heating Plant

LOCATED AT
541 Madison Avenue
Detroit, Michigan 48226

IN THE COUNTY OF
Wayne

STATE REGISTRATION NUMBER
B2814

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: May 17, 2021	
DATE PERMIT TO INSTALL APPROVED: August 31, 2021	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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COMMON ACRONYMS

AQD	Air Quality Division
BACT	Best Available Control Technology
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
COMS	Continuous Opacity Monitoring System
Department/department/EGLE	Michigan Department of Environment, Great Lakes, and Energy
EU	Emission Unit
FG	Flexible Group
GACS	Gallons of Applied Coating Solids
GC	General Condition
GHGs	Greenhouse Gases
HVLP	High Volume Low Pressure*
ID	Identification
IRSL	Initial Risk Screening Level
ITSL	Initial Threshold Screening Level
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MAERS	Michigan Air Emissions Reporting System
MAP	Malfunction Abatement Plan
MSDS	Material Safety Data Sheet
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standard for Hazardous Air Pollutants
NSPS	New Source Performance Standards
NSR	New Source Review
PS	Performance Specification
PSD	Prevention of Significant Deterioration
PTE	Permanent Total Enclosure
PTI	Permit to Install
RACT	Reasonable Available Control Technology
ROP	Renewable Operating Permit
SC	Special Condition
SCR	Selective Catalytic Reduction
SNCR	Selective Non-Catalytic Reduction
SRN	State Registration Number
TBD	To Be Determined
TEQ	Toxicity Equivalence Quotient
USEPA/EPA	United States Environmental Protection Agency
VE	Visible Emissions

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO ₂ e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H ₂ S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO _x	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO ₂	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
µg	Microgram
µm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal condition or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). **(R 336.1301)**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EU-BOILER6	Boiler No. 6 – 180.2 million Btu/hr natural gas fired with No. 2 fuel oil backup. Boiler is equipped with low NO _x burners and flue gas recirculation.	03/09/2007	FG-BOILER_6,7
EU-BOILER7	Boiler No. 7 – 180.2 million Btu/hr natural gas fired with No. 2 fuel oil backup. Boiler is equipped with low NO _x burners and flue gas recirculation.	03/09/2007	FG-BOILER_6,7

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

FLEXIBLE GROUP SPECIAL CONDITIONS

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-BOILER_6,7	Boiler No. 6 and Boiler No. 7, each 180.2 million Btu/hr, natural gas fired with No. 2 fuel oil backup. Both boilers are equipped with low NO _x burners and flue gas recirculation.	EU-BOILER6, EU-BOILER7

FG-BOILER_6,7
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Boiler No. 6 and Boiler No. 7, each 180.2 million Btu/hr, natural gas fired with No. 2 fuel oil backup.

Emission Unit: EU-BOILER6, EU-BOILER7

POLLUTION CONTROL EQUIPMENT

Low NO_x burners and flue gas recirculation.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. CO	0.073 lb/MMBtu	Hourly, when burning 100% natural gas	EU-BOILER6 and EU-BOILER7, individually.	SC V.1	R 336.2804, 40 CFR 52.21(j)
2. CO	0.155 lb/MMBtu	Hourly, when burning 100% No. 2 fuel oil	EU-BOILER6 and EU-BOILER7, individually.	SC V.2	R 336.2804, 40 CFR 52.21(j)
3. CO	84.6 lb/hour	Hourly and Calendar Month Average	EU-BOILER6 and EU-BOILER7, collectively.	SC V.1, SC V.2	R 336.2804, 40 CFR 52.21(j)
4. NO _x	0.036 lb/MMBtu	Calendar Day, when burning 100% natural gas	EU-BOILER6 and EU-BOILER7, individually.	SC IV.1, SC IV.3	R 336.1205, 40 CFR 52.21(c) and (d), 40 CFR Part 60 Section 60.44b(a)
5. NO _x	0.140 lb/MMBtu	Calendar Day, when burning 100% No. 2 fuel oil	EU-BOILER6 and EU-BOILER7, individually.	SC IV.1, SC IV.3	R 336.1205, 40 CFR 52.21(c) and (d), 40 CFR Part 60 Section 60.44b(a)
6. NO _x	76.4 lb/hour	Calendar Day	EU-BOILER6 and EU-BOILER7, collectively.	SC IV.1, SC IV.3	R 336.1205, 40 CFR 52.21(c) and (d)
7. NO _x	155.3 tons/yr	12-month rolling time period as determined at the end of each calendar month	EU-BOILER6 and EU-BOILER7, collectively.	SC IV.1, SC IV.3, SC VI.2	R 336.1205, 40 CFR 52.21(c) and (d)
8. PM ₁₀	0.007 lb/MMBtu	Hourly, when burning 100% natural gas	EU-BOILER6 and EU-BOILER7, individually.	SC V.1	R 336.2803, R 336.2804, 40 CFR 52.21(j)
9. PM ₁₀	0.040 lb/MMBtu	Hourly, when burning 100% No. 2 fuel oil	EU-BOILER6 and EU-BOILER7, individually.	SC V.2	R 336.2803, R 336.2804, 40 CFR 52.21(j)
10. PM ₁₀	21.8 lb/hour	Hourly and Calendar Month Average	EU-BOILER6 and EU-BOILER7, collectively.	SC V.1, SC V.2	R 336.2803, R 336.2804, 40 CFR 52.21(j)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
11. SO ₂	39 tons/yr	12-month rolling time period as determined at the end of each calendar month	EU-BOILER6 and EU-BOILER7, collectively	SC VI.1, SC VI.2	R 336.1205, 40 CFR 52.21(c) and (d)
12. Visible Emissions	20% opacity except for one 6-minute average per hour of not more than 27%	6-minute average, when burning any amount of No. 2 fuel oil	EU-BOILER6 and EU-BOILER7, individually.	SC IV.4, SC VI.4, SC VI.5	R 336.1301(1), 40 CFR 60.43b(f) and (g)

II. MATERIAL LIMIT(S)

1. The sulfur content of the No. 2 fuel oil used in EU-BOILER6 and EU-BOILER7 shall not exceed 0.30 percent by weight. **(R 336.1401(1) and (2), 40 CFR 60.41b, 40 CFR 60.42b(k)(2), 40 CFR 60.43b(h)(5))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall only fire natural gas and/or No. 2 fuel oil in EU-BOILER6 and EU-BOILER7, wherein the No. 2 fuel oil used shall meet the definition of *very low sulfur oil* found in 40 CFR 60.41b. **(R 336.1201(1), 40 CFR 60.42b(k)(2), 40 CFR 60.43b(h)(5))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall install, calibrate, certify, maintain, and operate in a satisfactory manner a Predictive Emission Monitoring System (PEMS) to monitor and record the NO_x emissions from each boiler in FG-BOILERS_6,7 on a continuous basis, and shall use the PEMS for determining compliance with SCs I.4, I.5, I.6, and I.7. Each PEMS shall be designed in accordance with and shall meet the provisions within 40 CFR 60.13 and 40 CFR 60 Appendix B, Performance Specification 16 – Specifications and Test Procedures for Predictive Emission Monitoring Systems in Stationary Sources, individually for natural-gas combustion and for No. 2 fuel oil combustion. For the purposes of this condition, continuous shall mean the collection and calculation of 1-hour NO_x averages from four or more data values equally spaced over each hour in accordance with the provisions within 40 CFR 60.13(e) and (h). **(40 CFR 52.21(j), 40 CFR 60.13(a), (e)(2), and (h)(2), 40 CFR 60.46b(e)(4), 40 CFR 60.48b(g)(2), 40 CFR 60 Appendix B, Performance Specification 16, Paragraph 1.1)**
2. The permittee shall, within the PEMS for each boiler, install, calibrate, certify, maintain, and operate in a satisfactory manner a device to monitor and record the exhaust O₂ (or, alternatively, the CO₂) concentration from each boiler in FG-BOILERS_6,7 on a continuous basis. Each device to monitor the exhaust O₂ (or CO₂) concentration shall be designed in accordance with and shall meet the provisions within 40 CFR 60.13 and 40 CFR 60 Appendix B, Performance Specification 16 – Specifications and Test Procedures for Predictive Emission Monitoring Systems in Stationary Sources, individually for natural-gas combustion and for No. 2 fuel oil combustion. For the purposes of this condition, continuous shall mean the collection and calculation of 1-hour exhaust O₂ (or CO₂) concentration averages from four or more data values equally spaced over each hour in accordance with the provisions within 40 CFR 60.13(e) and (h). **(40 CFR 52.21(j), 40 CFR 60.13(a), (e)(2), and (h)(2), 40 CFR 60.46b(e)(4), 40 CFR 60.48b(g)(2), 40 CFR 60.49b(c)(1), 40 CFR 60 Appendix B, Performance Specification 16, Paragraph 1.1)**
3. The permittee shall implement and maintain a Plan, currently named the “Alternative Monitoring Protocol” of November 2016, that identifies the following:
 - a. PEMS operating indicators to be monitored, the range of each indicator, the relationship between the indicators and the NO_x emission rates, and the data used to establish that relationship during the certification of the PEMS. **(40 CFR 60.49b(c)(1) and (2))**
 - b. How the PEMS indicators will be monitored on a continuous basis, and the type and format of the records that will be kept of these indicators. **(40 CFR 60.49b(c)(3))**

- c. The quality assurance procedures and practices that will be employed to ensure that the predicted NO_x emissions generated by monitoring the operating indicators will be representative and accurate.
(40 CFR 60.49b(c)(3))

If it becomes necessary to revise, modify or update the Plan, the permittee shall resubmit the Plan to the Detroit District Supervisor for review and written approval before implementing such revisions, modifications, or updates. **(40 CFR 60.13(a), 40 CFR 60.46b(e)(4), 40 CFR 60.48b(g)(2), 40 CFR 60.49b(c), 40 CFR 60 Appendix B, Performance Specification 16, Paragraph 1.1)**

4. The permittee shall maintain and operate each boiler according to a written site-specific monitoring plan approved by the department. This monitoring plan must include procedures and criteria for establishing and monitoring specific parameters for the affected facility indicative of compliance with the opacity standard.
(40 CFR 60.48b(j)(7))

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. Upon request of the District Supervisor, the permittee shall verify CO and PM₁₀ emission rates from FG-BOILER_6,7, when burning natural gas, by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A and 40 CFR Part 51, Appendix M. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. No less than 7 days prior to testing, the permittee shall notify the AQD of the time and place of the performance test. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.2001, R 336.2003, R 336.2004)**
2. Upon request of the District Supervisor, the permittee shall verify CO and PM₁₀ emission rates from FG-BOILER_6,7, when burning No. 2 fuel oil, by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A and 40 CFR Part 51, Appendix M. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. No less than 7 days prior to testing, the permittee shall notify the AQD of the time and place of the performance test. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.2001, R 336.2003, R 336.2004)**
3. Quality assurance of the NO_x predictive emission monitoring system ("PEMS") will be accomplished by performance at owner's expense of a relative accuracy test audit ("RATA") initially after PEMS installation/startup and at least once every four quarters thereafter, as identified in the Plan submitted to and approved by the department. Stack testing and quality assurance procedures shall be in accordance with applicable federal Reference Methods, 40 CFR Part 60 Appendices A, B, and F. No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.2001, R 336.2003, R 336.2004, 40 CFR 60.49b(c)(3), 40 CFR 60 Appendix B, Performance Specification 16, Paragraph 9.4)**
4. Quality assurance of the NO_x predictive emission monitoring system ("PEMS") will be accomplished by performance at owner's expense of a relative accuracy audit (RAA) conducted on a quarterly basis except during the quarter which the RATA is performed. Pursuant to 40 CFR Part 60, Appendix B, Performance Specification 16, if PEMS passes all quarterly RAAs in the first year and also passes the subsequent yearly RATA in the second year, the permittee may elect to perform a single mid-year RAA in place of the quarterly RAAs. This option may be repeated, but only until the PEMS fails either a mid-year RAA or a yearly RATA. When such a failure occurs, the permittee must resume quarterly RAAs in the quarter following the failure and

continue conducting quarterly RAAs until the PEMS successfully passes both a year of quarterly RAAs and a subsequent RATA. **(40 CFR 60.49b(c)(3), 40 CFR 60 Appendix B, Performance Specification 16, Paragraph 9.3)**

5. The permittee shall ensure the sensor evaluation system within the NO_x PEMS checks the integrity of each PEMS input not less than once per day. **(40 CFR 60.49b(c)(3), 40 CFR 60 Appendix B, Performance Specification 16, Paragraph 9.2)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall obtain and maintain fuel receipts from the fuel oil supplier which certify that the No. 2 fuel oil meets the definition of distillate oil as defined in 40 CFR 60.41b. For purposes of this permit condition, the oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Reports shall be submitted certifying that only very low sulfur oil, as defined in 40 CFR 60.41b for a unit constructed after February 28, 2005, not located in a noncontinental area, was combusted in FG-BOILER_6,7 during the reporting period. **(40 CFR 60.45b(j) and (k), 60.47b(f), 40 CFR 60.49b(r)(1))**
2. The permittee shall maintain the following records for each boiler in FG-BOILER_6,7 individually:
 - a. Amount of natural gas consumed (million cubic feet), on a daily, monthly and annual basis.
 - b. Amount of No. 2 fuel oil consumed (thousands of gallons) on a daily, monthly and annual basis.
 - c. Sulfur content of the No. 2 fuel oil (percent sulfur by weight).
 - d. Heat content of the No. 2 fuel oil in Btu's per gallon of fuel oil.
 - e. Calculated annual SO₂ and NO_x emissions. SO₂ and NO_x emissions shall be calculated for both natural gas and distillate oil combustion in accordance with the methodology contained in Appendix 7A.
 - f. Individually calculated annual capacity factor No. 2 fuel oil and natural gas for the reporting period. Per 40 CFR 60.49b(d)(1), the annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.
(R 336.1205, 40 CFR 60.49b(d)(1))
3. The permittee shall maintain records of the predicted NO_x emission rates and the monitored boiler operating conditions for FG-BOILER_6,7, as identified in the Plan submitted to and approved by the department.
(40 CFR 60.49b(c))
4. When firing No. 2 fuel oil, the permittee shall perform daily visual emissions observations (non-certified) during each day the boiler is in operation. The visual observations shall be performed in accordance with U.S. EPA Method 22. If visible emissions are observed, the permittee either shall shutdown the boiler exhibiting the visible emissions or shall conduct visual observations in accordance with U.S. EPA Method 9 by an observer certified in U.S. EPA Method 9. **(R 336.1303, 40 CFR 60.48b(j)(7))**
5. For each visual emissions observation period, the permittee shall keep the following records:
 - a. Dates and time intervals of all opacity observation periods.
 - b. Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test.
 - c. Copies of all visible emission observer opacity field data sheets.
(40 CFR 60.49b(f))
6. The permittee shall continuously monitor and record the PEMS operational indicators identified in the Plan for EU-BOILER6 and EU-BOILER7. For the purposes of this condition, continuous shall mean the collection and calculation of 1-hr averages from four or more data values equally spaced over each hour in accordance with the provisions within 40 CFR 60.13(e) and (h). Within the Plan of November 2016, the operational indicators for each boiler are identified as the fuel gas flow, the steam flow rate, the combustion air differential pressure, the oxygen analyzer, the gas flow transmitter, the boiler demand, the air damper position, and the air flow percentage with oxygen trim. The indicator ranges are identified within the Plan at Table 2 (for EU-BOILER6) and at Table 3 (for EU-BOILER7). The operating indicators and their ranges may be updated in the Plan and applied by the permittee provided the changes have been submitted to and approved by the Detroit District Supervisor pursuant to SC IV.3. **(40 CFR 60.13(a), (e)(2), and (h)(2), 40 CFR 60.48b(g)(2), 40 CFR 60.49b(c), 40 CFR 60 Appendix B, Performance Specification 16)**

7. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that EU-BOILER6 or EU-BOILER7 are operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for evaluation against the emissions limitations within SCs I.4, I.5, and I.6, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. **(40 CFR 60.13(e)(2), (h)(2), and (h)(2)(vi))**

VII. REPORTING

1. The permittee shall submit any performance test reports, including RATA reports, to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.2001(5))**
2. The permittee shall submit quarterly excess emissions and monitoring systems performance reports in the format prescribed by Figure 1 of 40 CFR 60.7(d). Reports shall be postmarked by April 30th, July 31st, October 31st, and January 31st of each year. Written reports of excess emissions shall include the following information:
 - a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.
 - b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.
 - c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.
 - d. When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report. **(40 CFR 60.49b(g)(4) and (h), 40 CFR 60.7(c))**

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV016-026	120	250	R 336.2803, R 336.2804, 40 CFR 52.21(c) and (d)
2. SV016-027	120	250	R 336.2803, R 336.2804, 40 CFR 52.21(c) and (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with applicable provisions of 40 CFR Part 60, Subpart A and Subpart Db. **(40 CFR Part 60, Subpart Db)**

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).