West Virginia Department of Environmental Protection

Austin Caperton
Cabinet Secretary

Permit to Modify

R14-0027F

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§22-5-1 et seq.) and 45 C.S.R. 13 – Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits, Permission to Commence Construction, and Procedures for Evaluation. The permittee identified at the above-referenced facility is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Issued to:
Eagle Natrium LLC
Natrium Plant/New Martinsville
051-00002

William F. Durham
Director, Division of Air Quality

Issued: DRAFT

This permit will supercede and replace Permit R14-0027E.

Facility Location:	15696 Energy Road Proctor, WV 26055
Mailing Address:	P.O. Box 191 New Martinsville, WV 26155-0191
Facility Description:	Chemical Manufacturing
NAICS Codes:	325181, 325110
UTM Coordinates:	512.70 km Easting • 4,399.60 km Northing • Zone 17
Permit Type:	Modification
Description of Change:	This action is for the conversion and restarting of Boiler No. 4 on natural gas.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

The source is subject to 45CSR30. Changes authorized by this permit must also be incorporated into the facility's Title V operating permit. Commencement of the operations authorized by this permit shall be determined by the appropriate timing limitations associated with Title V permit revisions per 45CSR30.

Table of Contents

1.0. Emission Units 4

2.0. General Conditions 5
2.1. Definitions 5
2.2. Acronyms 5
2.3. Authority 5
2.4. Term and Renewal 6
2.5. Duty to Comply 6
2.6. Duty to Provide Information 6
2.7. Duty to Supplement and Correct Information 6
2.8. Administrative Update 7
2.9. Permit Modification 7
2.10 Major Permit Modification 7
2.11. Inspection and Entry 7
2.12. Emergency 7
2.13. Need to Halt or Reduce Activity Not a Defense 8
2.14. Suspension of Activities 8
2.15. Property Rights 8
2.16. Severability 8
2.17. Transferability 9
2.18. Notification Requirements 9
2.19. Credible Evidence 9

3.0. Facility-Wide Requirements 10
3.1. Limitations and Standards 10
3.2. Monitoring Requirements 10
3.3. Testing Requirements 10
3.4. Recordkeeping Requirements 11
3.5. Reporting Requirements 12

4.0. Source-Specific Requirements 14
4.1. Limitations and Standards 14
4.2. Monitoring Requirements 17
4.3. Testing Requirements 20
4.4. Recordkeeping Requirements 20
4.5. Reporting Requirements 22

CERTIFICATION OF DATA ACCURACY 24

1.0. Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
R015	S076	No. 4 Boiler with Low NO_x Burners (fired by 100% hydrogen, natural gas, or mixture of these fuels – 4.1.1(c))	1952/2018	540 MMBtu/hr	None
R072	S482	No.5 Boiler (fired by natural-gas)	1966/2016	1,125 MMBtu/hr	None
R097	S076	No. 6 Boiler with Low-NO_x Burner (fired by 100% hydrogen, natural gas, or mixture of these fuels – 4.1.4(c))	1993/2015	182 MMBTU	None
R200	S200	Babcock & Wilcox Model RB-747 Rental Boiler (fired by natural gas)	2017	99.9 MMBTU	None

2.0. General Conditions

2.1. Definitions

2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.

2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.

2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

2.2. Acronyms

CAAA	Clean Air Act Amendments
CBI	Confidential Business Information
CEM	Continuous Emission Monitor
CES	Certified Emission Statement
C.F.R. *or* CFR	Code of Federal Regulations
CO	Carbon Monoxide
C.S.R. *or* CSR	Codes of State Rules
DAQ	Division of Air Quality
DEP	Department of Environmental Protection
dscm	Dry Standard Cubic Meter
FOIA	Freedom of Information Act
HAP	Hazardous Air Pollutant
HON	Hazardous Organic NESHAP
HP	Horsepower
lbs/hr	Pounds per Hour
LDAR	Leak Detection and Repair
M	Thousand
MACT	Maximum Achievable Control Technology
MDHI	Maximum Design Heat Input
MM	Million
MMBtu/hr *or* mmbtu/hr	Million British Thermal Units per Hour
MMCF/hr *or* mmcf/hr	Million Cubic Feet per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAPS	National Emissions Standards for Hazardous Air Pollutants
NO_X	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
$PM_{2.5}$	Particulate Matter less than 2.5 µm in diameter
PM_{10}	Particulate Matter less than 10µm in diameter
Ppb	Pounds per Batch
Pph	Pounds per Hour
Ppm	Parts per Million
Ppm_V or ppmv	Parts per Million by Volume
PSD	Prevention of Significant Deterioration
Psi	Pounds per Square Inch
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TAP	Toxic Air Pollutant
TPY	Tons per Year
TRS	Total Reduced Sulfur
TSP	Total Suspended Particulate
USEPA	United States Environmental Protection Agency
UTM	Universal Transverse Mercator
VEE	Visual Emissions Evaluation
VOC	Volatile Organic Compounds
VOL	Volatile Organic Liquids

2.3. Authority

This permit is issued in accordance with West Virginia Air Pollution Control Act W.Va. Code §§ 22-5-1. et seq. and the following Legislative Rules promulgated thereunder:

2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation*;

2.3.2. 45CSR14 – *Permits for Construction and Major Modification of Major Stationary Sources of Air Pollution for the Prevention of Significant Deterioration;*

2.4. Term and Renewal

2.4.1. This permit supersedes and replaces previously issued Permit R14-0027E. This Permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any other applicable legislative rule;

2.5. Duty to Comply

2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-1637, R13-1637A, R14-0027, R14-0027A, R14-0027B, R14-0027C, R14-0027D, R14-0027E, R14-0027F, and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to;
[45CSR§§13-5.11 and 10.3.]

2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;

2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;

2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

2.6. Duty to Provide Information

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

2.7. Duty to Supplement and Correct Information

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

2.8. Administrative Update

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.
[45CSR§13-4.]

2.9. Permit Modification

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.
[45CSR§13-5.4.]

2.10 Major Permit Modification

The permittee may request a major modification as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.
[45CSR§13-5.1]

2.11. Inspection and Entry

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

2.12. Emergency

2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are met.

2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The permitted facility was at the time being properly operated;

c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

2.12.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

2.12.5 The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

2.13. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

2.14. Suspension of Activities

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

2.15. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

2.16. Severability

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

2.17. Transferability

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. **[45CSR§13-10.1.]**

2.18. Notification Requirements

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

2.19. Credible Evidence

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

3.0. Facility-Wide Requirements

3.1. Limitations and Standards

3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]

3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]

3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management, and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40CFR§61.145(b) and 45CSR§34]

3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1] ***[State Enforceable Only]***

3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.
[45CSR§13-10.5.]

3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.
[45CSR§11-5.2.]

3.2. Monitoring Requirements

[Reserved]

3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary

exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4. or 45CSR§13-5.4 as applicable.

b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4. or 45CSR§13-5.4 as applicable.

c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

d. The permittee shall submit a report of the results of the stack test within sixty (60) days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1.; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:

1. The permit or rule evaluated, with the citation number and language;
2. The result of the test for each permit or rule condition; and,
3. A statement of compliance or noncompliance with each permit or rule condition.

[WV Code § 22-5-4(a)(14-15) and 45CSR13]

3.4. Recordkeeping Requirements

3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports, and notifications) required by this permit recorded in

a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.
[45CSR§4. *State Enforceable Only.*]

3.5. Reporting Requirements

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.

3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class or by private carrier with postage prepaid to the address(es), or submitted in electronic format by email as set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

DAQ:
Director
WVDEP
Division of Air Quality
601 57th Street
Charleston, WV 25304-2345

DAQ Compliance and Enforcement[1]:
DEPAirQualityReports@wv.gov

US EPA:
Associate Director
Office of Air Enforcement and Compliance Assistance (3AP20)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

[1]For all self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols, Notice of Compliance Status Reports, Initial Notifications, etc.

3.5.4. Operating Fee

3.5.4.1. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal

requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

4.0. Source-Specific Requirements

4.1. Limitations and Standards

4.1.1. The following conditions and requirements are specific to No. 4 Boiler (ID #R015):

a. The boiler shall not exceed the following emission limitations:

i. CO emissions emitted to the atmosphere from the boiler shall not exceed 0.0646 pounds per MMBtu. A new 30-day rolling average emission rate shall be determined on a daily basis and shall be calculated as the average of all the hourly CO emission data for the preceding 30 steam generating unit operating days.

ii. NO_x emissions emitted to the atmosphere from the boiler shall not exceed 0.16 pounds per MMBtu. A new 30-day rolling average emission rate shall be determined on a daily basis and shall be calculated as the average of all the hourly NO_x emission data for the preceding 30 steam generating unit operating days.

b. The boiler shall only be fired with hydrogen gas, natural gas, or any combination of these two fuels. Compliance with this condition satisfies compliance with the limitations of 45CSR§2-3.1. (incorporated under Condition 4.1.5.), 45CSR§2-4.1.b., 45CSR§10-3.1.e.; and the requirement of 45 CSR §2-8.1.a., 45 CSR §2-8.2., and Section 8 of 45 CSR §10.
[45 CSR §2-8.4.b., 45 CSR §2A-3.1.a., 45 CSR §10-10.3., and 45CSR §10A-3.1b.] [45 CSR §2-8.4.b., 45 CSR §2A-3.1.a., 45 CSR §10-10.3., and 45CSR §10A-3.1b.]

c. The 24- hour average heat input of the boiler shall be no greater than 540 MMBtu/hr. Compliance with this limit for the boiler shall be satisfied by limiting the annual total heat input into the unit to 4,730,400 MMBtu on 12 month rolling total basis.

4.1.2. The following conditions and requirements are specific to No. 5 Boiler (ID #R072):

a. The boiler shall not exceed the following emission limitations:

i. CO emissions emitted to the atmosphere from the boiler shall not exceed 0.0488 pounds per MMBtu. A new 30-day rolling average emission rate shall be determined on a daily basis and shall be calculated as the average of all the hourly CO emission data for the preceding 30 steam generating unit operating days.

ii. NO_x emissions emitted to the atmosphere from the boiler shall not exceed 0.16 pounds per MMBtu. A new 30-day rolling average emission rate shall be determined on a daily basis and shall be calculated as the average of all the hourly NO_x emission data for the preceding 30 steam generating unit operating days.

b. The boiler shall only be fired with "natural gas" as defined in 45 CSR§10A-2.7. Compliance with this condition satisfies compliance with the limitations of 45CSR§2-3.1. (incorporated under Condition 4.1.5.), 45CSR§2-4.1.b., 45CSR§10-3.1.e.; and the requirement of 45 CSR §2-8.1.a., 45 CSR §2-8.2., and Section 8 of 45 CSR §10.
[45 CSR §2-8.4.b., 45 CSR §2A-3.1.a., 45 CSR §10-10.3., and 45CSR §10A-3.1b.]

c. The 24- hour average heat input of the boiler shall be no greater than 999 MMBtu/hr. Compliance with this limit for the boiler shall be satisfied by limiting the annual total heat input into the unit to 8,751,240 MMBtu on 12 month rolling total basis.

4.1.3. The following conditions and requirements are specific to No. 6 Boiler (ID #R097):

a. The boiler shall not exceed the following emission limitations:

i. CO emissions emitted to the atmosphere from the boiler shall not exceed 0.0337 pounds per MMBtu. A new 30-day rolling average emission rate shall be determined on a daily basis and shall be calculated as the average of all the hourly CO emission data for the preceding 30 steam generating unit operating days.

ii. NO_x emissions emitted to the atmosphere from the boiler shall not exceed 0.04 pounds per MMBtu. A new 30-day rolling average emission rate shall be determined on a daily basis and shall be calculated as the average of all the valid hourly NO_x emission data for the preceding 30 steam generating unit operating days
[40 CFR §60.44b(a), (h), and (i)]

b. The boiler shall only be fired with hydrogen gas, natural gas or any combination of these two fuels. Compliance with this condition satisfies compliance with the limitations of 45CSR§2-3.1. (incorporated under Condition 4.1.5.), 45CSR§2-4.1.b., 45CSR§10-3.1.e.; and the requirement of 45 CSR §2-8.1.a., 45 CSR §2-8.2., and Section 8 of 45 CSR §10.
[45 CSR §2-8.4.b., 45 CSR §2A-3.1.a., 45 CSR §10-10.3., and 45CSR §10A-3.1b.]

c. The 24-hour average heat input of boiler shall be no greater than 182 MMBtu/hr. Compliance with this limit for the boiler shall be satisfied by limiting the annual total heat input into the unit by 1,594,320 MMBtu on 12 month rolling total basis.

4.1.4. The hydrogen gas to be fired in Nos. 4 and 6 Boilers shall not have a concentration of greater than 20 micrograms of mercury per cubic meters of gas on a 3-hour average basis. The hydrogen gas meeting this standard is classified as an "other gas 1 fuel" under Subpart DDDDD of Part 63.
[40 CFR §63.7575 and §63. 7540(c)(1)]

4.1.5. Visible emissions from each of these emission points S076 (Stack for Nos. 4 & 6 Boilers) and S482 (No. 5 Boiler) shall not be greater than ten (10) percent opacity based on a six-minute block average.
[45 CSR §2-3.1]

4.1.6. Nos. 4, 5, and 6 Boilers shall be equipped, maintained, operated with an oxygen trim system that maintains an optimum air to fuel ratio for each unit. Such system shall be installed up on initial start-up of the unit from the conversion to natural gas retrofit.
[40 CFR §63.7575]

4.1.7. The initial tune-up and subsequent tune-ups for the boilers shall be conducted in accordance with the following timing and tune-up requirements:

a. The initial tune-up for the No. 4 Boiler shall be completed by no later than 30 calendar days after the initial start-up from the natural gas conversion of the unit.
[40 CFR §63.7510(j) and §63.7495(h)]

b. Subsequent tune-ups for all of the boilers shall be completed no later than 61 months after previous tune-up.
[40 CFR §63.7515(d) § 63.7540(a)(12)]

c. Each tune-up shall consist of the following:

i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (permittee may delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage vessel

is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown);

iv. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, which includes the manufacturer's NOx concentration specification taken inconsideration; and

v. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

[40 CFR §63.7500(a)(1), §63.7505(a), §63.7515(d), §§63.7540(a)(10) & (12), and Table 3 to Subpart DDDDD of Part 63—Work Practice Standards]

4.1.8. The Rental Boiler, identified as R200, shall meet the following requirements:

a. The Rental Boiler shall be a Babcock & Wilcox Model RB-747, shall not exceed an aggregate MDHI of 99.9 MMBtu/hr, shall only be fired by pipeline-quality natural gas (PNG), shall utilize Low-NO_x Burner technology, and shall not exceed those emission limits given in the following table:

Table 4.1.10(a): Rental Boiler Emission Limits

Pollutant	PPH	TPY
CO	7.49	32.82
NO_x	3.65	15.97
$PM_{2.5}/PM_{10}/PM^{(1)}$	0.50	2.19
VOCs	0.40	1.75

(1) Includes condensable particulate matter.

b. As the annual emissions are based on 8,760 hours of operation, there is no annual limit on hours of operation or natural gas combusted on an annual basis for the Rental Boiler;

c. Visible emissions from boiler R200 shall not be greater than ten (10) percent opacity based on a six-minute block average. Compliance with this limitation is satisfied when the unit is only operating on natural gas.
[45 CSR §2-3.1. & 8.4b., 45 CSR §2A-3.1.a.]

d. Within in 180 days after restarting No. 4 Boiler, the permittee shall shutdown and remove Boiler Identified as R200 from the facility. Restart-up of No. 4 Boiler is defined as the first instance that steam for No. 4 Boiler is allowed to be introduced into the common header.
[45 CSR 14-2-46.h.]

4.1.9. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.
[45CSR§13-5.11.]

4.2. Monitoring Requirements

4.2.1. For No. 4 Boiler, the permittee shall install, operate, certify, and maintain NOx-diluent system, and CO continuous emissions monitoring system in accordance with the applicable Performance Specifications under Appendix B to Part 60 of Chapter 40 for CO and Part 75 of Chapter 40 for NO_x, and diluent gas; and the procedures specified in Appendix D of 40 CFR 75 for determining the hourly heat input of the unit. Such monitor system shall include an automated data acquisition and handling system (DAHS). All required certification tests of the monitoring system must be completed no later than 90 unit operating days or 180 calendar days (whichever is sooner) after initial start-up from the natural gas conversion project.
[45 CSR §40-6.1. and 40 CFR §§75.70 and §§75.71]

For Using PEMS for NO_x and CO compliance
If the permittee elects to use an alternative monitoring system, such as a predictive emission monitoring system (PEMS), in the lieu of CEMS for the purposes of demonstrating compliance with the NOx and CO emissions limits in Condition 4.1.1., the permittee must perform the following to demonstrate that the alternative monitoring system has the same or better precision, reliability, accessibility, and timeliness as that provided by the CEMS:

a. F-test, Correlation Analysis, and a t-test for bias in accordance with 40 CFR §75.41 using a minimum of 720 hours of paired data sets.
[40 CFR §75.41]

b. The reliability of the system shall be capable of providing valid 1-hour averages for 95.0 percent or more of unit operating hours over a 1-year period and that the system meet the applicable requirements of Appendix B of 40 CFR 75.
[40 CFR §75.42]

c. The accessibility of the system that the system can provide reports and onsite records of emission data to demonstrate the alternative monitoring system provides data meeting the requirements of Subpart F and G of 40 CFR 75.
[40 CFR §75.43]

d. The timeliness of the system can meet the requirements of Subpart F and G of 40 CFR 75; can provide a continuous, quality-assured, permanent record of the certified emission data on an hourly basis; and can issue a record of data for the previous day within 24 hours.
[40 CFR §75.44]

e. The permittee shall either demonstrate that daily test equivalent to those specified in Appendix B of 40 CFR 75 can be performed on the alternative system or demonstrate and document that such tests are unnecessary for providing quality-assured data.
[40 CFR §75.45]

f. The permittee shall demonstrate that all missing data can be accounted for in a manner consistent with the applicable missing data procedures in Subpart D of 40 CFR 75.
[40 CFR §75.46]

The permittee may elect to use an alternative monitoring system, which is referred as a predictive emission monitoring system (PEMS), in lieu of CEMS. Prior to using PEMS to solely measures hourly NO_x emissions, the permittee must have file a petition to the Administrator for approve and to certify the alternative monitoring system. Such petition must contain the information outline in 40 CFR §75.48. For using alternative monitoring system to determine the CO emissions, the permittee must demonstrate to the Director that the system meets the specification outline in Performance Specification 16 or
[45 CSR §40-6.1., 40 CFR §§75.70(h)(1), 75.66(d), and 75.48.]

The permittee must calculate and record an hourly average or heat input average (respective to the terms of the emission limit for the corresponding pollutant) emission rate on a daily basis for each pollutant identified in this condition for the boiler using at . CEMS unit conforming to the specifications of 40 CFR Part 75 shall use unbiased, un-substituted data to demonstrate compliance with the limits as specified in this permit.

For purposes of calculating data averages, the permittee cannot use data recorded during periods of monitoring malfunctions, associated repairs, out-of–control periods, required quality assurance or control activities. The permittee must use all the data collected during all other periods in assessing compliance with the emission limit permitted in Condition 4.1.3. Any periods for which the monitoring system is out of control and data are not available for required calculations constitute a deviation from the monitoring requirements. Records of all data collected, calibrations, calibration checks, relative accuracy tests, maintenance preformed, and malfunctions of the CEMS/PEMS shall be maintained in accordance with Condition 3.4.1. of this permit.

4.2.2. For No. 5 Boiler, the permittee shall install, operate, certify and maintain a continuous emission monitoring system (CEMS) for measuring NO_x, CO, and diluent gas (CO_2 or O_2) monitoring system from the exhaust of No. 5 Boiler in accordance with the applicable Performance Specifications under Appendix B to Part 60 of Chapter 40 for CO and Part 75 of Chapter 40 for NO_x, and diluent gas. Such monitor system shall include an automated data acquisition and handling system (DAHS). All required certification tests of the monitoring system must be completed no later than 90 unit operating days or 180 calendar days (whichever is sooner) after initial start-up from the natural gas conversion project.
[45 CSR 40-6.1. and 40 CFR §§75.70 and §§75.71]

The permittee may elect to use a predictive emission monitoring system (PEMS) as an alternative monitoring system in lieu of CEMS. Using PEMS, the permittee must have this alternative monitoring system certified under the applicable procedures of Subpart E of 40 CFR 75 and approved by the USEPA Administrator.

The permittee must calculate and record an hourly average or heat input average (respective to the terms of the emission limit for the corresponding pollutant) emission rate on a daily basis for each pollutant identified in this condition for each boiler. CEMS unit conforming to the specifications of 40 CFR Part 75 shall use unbiased, un-substituted data to demonstrate compliance with the limits as specified in this permit.

For purposes of calculating data averages, the permittee cannot use data recorded during periods of monitoring malfunctions, associated repairs, out-of–control periods, required quality assurance or control activities. The permittee must use all the data collected during all other periods in assessing

compliance with the emission limit permitted in Condition 4.1.3. Any periods for which the monitoring system is out of control and data are not available for required calculations constitute a deviation from the monitoring requirements. Records of all data collected, calibrations, calibration checks, relative accuracy tests, maintenance preformed, and malfunctions of the CEMS/PEMS shall be maintained in accordance with Condition 3.4.1. of this permit.
[45 CSR §40-6.1. and 40 CFR §75.70. and 75.73 (NO_x Monitoring)]

4.2.4. For No. 6 Boiler post conversion to natural gas, the permittee shall install, operate, certify and maintain a continuous emission monitoring system (CEMS) or approved Alternative Monitoring System for measuring NO_x, CO, and either CO_2 or oxygen analyzer according to the applicable procedures under Appendix B, and Appendix F to Part 60 of Chapter 40 on a continuous basis. Such monitor system shall include an automated data acquisition and handling system (DAHS).

The span value for the NO_x CEMs shall be 500 ppm (40 CFR §60.48b(e)(2)(i)) if applicable.

The permittee must conduct and pass a performance evaluation of the CEMS or PEMS according to the procedures under 40 CFR §60.13. within 180 days after restarting of the boiler.

For NO_x and CO_2 or O_2 direct measurement only; when NO_x emission data are not obtained because of CEMS or alternative monitoring system breakdown, repairs, calibration checks, and zero and span adjustment, emission data will be obtained by using standby monitoring systems, Method 7 or 7A of Appendix A of Part 60, or other approved reference methods to provided emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of the 30 successive steam generating unit operating days. **[40 CFR §60.48b(f)]**

The permittee may elect to use a predictive emission monitoring system (PEMS) as an alternative monitoring system in lieu of CEMS. Such PEMS must meet the Performance Specification (PS) 16 of Appendix B-Performance Specifications and Appendix F-Quality Assurance Procedures to Part 60, which consist of passing an initial relative accuracy test audit (RATA) and quarterly relative accuracy audits (RAA) for the first year, followed by one (1) annual RATA and one (1) annual RAA each year after, and follow-up relative accuracy test, and conducting periodic quality assurance (QA) assessments. **[40 CFR 60.49(c)]**

For purposes of calculating data averages, the permittee cannot use data recorded during periods of monitoring malfunctions, associated repairs, out-of–control periods, required quality assurance or control activities. The permittee must use all the data collected during all other periods in assessing compliance with the emission limit permitted in Condition 4.1.4. Any periods for which the monitoring system is out of control and data are not available for required calculations constitute a deviation from the monitoring requirements. Records of all data collected, calibrations, calibration checks, relative accuracy tests, maintenance preformed, and malfunctions of the CEMS/PEMS shall be maintained in accordance with Condition 3.4.1. of this permit.
[40 CFR §§60.48b(b) though (f) and 45 CSR 13-5.11]

4.2.5. For the purposes of demonstrating compliance with the mercury limitation in Condition 4.1.4., the permittee shall continuously monitor the concentration of mercury, flow rate of hydrogen gas being delivered to the Power House, and calculated mercury concentration of the hydrogen gas as delivered in terms of µg/dscm. The above monitoring is only required when either Nos. 4 and/or 6 Boilers are fire with any combination of hydrogen gas. Records of such monitoring shall be maintained in accordance with Condition 3.4.1.

4.2.6. Regarding the determination of valid hourly emission data using to determinate compliance with the 30-day rolling average limits in Condition 4.1.1., 4.1.2., and 4.1.3., the following criteria shall be using what hourly emissions data must be used in the 30-day rolling average.

a. Except as noted in item c. of this condition, for a full operating hour of the unit at least four valid data point are required to calculate the hourly average (i.e. one data point in each of the 15-minute quadrants of the hour).
[40 CFR §60.7(h)(2)(i)]

b. Except as noted in item c., for a partial operating hour of the unit, at least one valid data point in each 15-minute quadrant of the hour in which the unit operates is required to calculate the hourly average.
[40 CFR §60.7(h)(2)(ii)]

c. For any operating hour in which required maintenance or quality-assurance activities are performed of the monitoring system is not valid.
[40 CFR §60.7(h)(2)(iii)]

   i. If the unit operates in two or more quadrants of the hour, a minimum of two valid data points, separated by at least 15 minutes, is required to calculate the hourly average; or
   [40 CFR §60.7(h)(2)(iii)(A)]

   ii. If the unit operates in only one quadrant of the hour, at least one valid data point is required to calculate the hourly average.
   [40 CFR §60.7(h)(2)(iii)(B)]

d. If a daily calibration error check is failed during any operating hour, all data for that hour shall be invalidated, unless a subsequent calibration error test is passed in the same hour and the requirements of paragraph (h)(2)(iii) of this section are met, based solely on valid data recorded after the successful calibration.
[40 CFR §60.7(h)(2)(iv)]

e. For each full or partial operating hour, all valid data points shall be used to calculate the hourly average.
[40 CFR §60.7(h)(2)(v)]

f. Except as provided under item g. of this condition, data recorded during periods of continuous monitoring system breakdown, repair, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph.
[40 CFR §60.7(h)(2)(vi)]

g. The permittee complying with the requirements of 40 CFR §60.7(f)(1) or (2) must include any data recorded during periods of monitor breakdown or malfunction in the data averages.
[40 CFR §60.7(h)(2)(vii)]

h. Either arithmetic or integrated averaging of all data may be used to calculate the hourly averages. The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O2 or ng/J of pollutant).
[40 CFR §60.7(h)(2)(ix)]

4.3. Testing Requirements

[Reserved]

4.4. Recordkeeping Requirements

4.4.1. **Record of Monitoring.** The permittee shall keep records of monitoring information that include the following:

a. The date, place as defined in this permit, and time of sampling or measurements;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of the analyses; and

f. The operating conditions existing at the time of sampling or measurement.

4.4.2. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.

4.4.3. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

a. The equipment involved.

b. Steps taken to minimize emissions during the event.

c. The duration of the event.

d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

e. The cause of the malfunction.

f. Steps taken to correct the malfunction.

g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

4.4.4. The permittee shall keep records of fuel consumed by each boiler on a daily basis, which includes natural gas usage. For the purpose of demonstrating that the natural gas has insignificant amount of sulfur, the permittee shall keep fuel receipts (such as a, valid purchase contract, tariff sheet, or transportation contact) from the natural gas supplier.

Once the natural gas conversion for No. 6 Boiler has been completed, the permittee shall calculate the annual capacity factor for natural gas. 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. Such records shall be maintained in accordance with Condition 3.4.1.
[45CSR §2-7.1.a.6., and 45 CSR §10-8.3.c.][No. 6 Boiler only – 40 CFR §§60.49b(d)(2), (r)(1)]

4.4.5. The permittee shall maintain records of the monitoring as required in Conditions 4.2.1., 4.2.2., and 4.2.3 for each steam generating unit operating day of each boiler, which at least the following information:

a. Calendar date;

b. The average hourly NO_x and CO emission rate in terms of lb per MMBtu heat input;

c. The 30-day average NO_x and CO emission rates calculated at the end of each steam generating unit operating day for the preceding 30 steam generating unit operating days;

d. Identification of steam generating unit operating days when the calculated 30 day average NO_x or CO emission rates are in excess of the respective limits in Conditions 4.1.1, 4.1.2. and 4.1.3. with reasons for such excess emissions and description of corrective actions taken;

e. Identification of the steam generating unit operating days for which pollutant data have not been obtained, include reasons for not obtaining sufficient data and a description of corrective actions taken;

f. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;

g. Identification of the times when the pollutant concentration exceeded full span of the CEMS;

h. Description of any modifications to the CEMS or PEMS that could affect the ability of the CEMS or PEMS to comply with respective Performance Specification (PS); and

i. Results of daily CEMS drift tests and quarterly accuracy assessments as required Appendix F, Procedure 1 or Part 75 if applicable to the monitoring system.

4.5. Reporting Requirements

4.5.1. The permittee shall submit to the Director within 45 days of completion of performance evaluation for the CEMS or PEMS for No. 4 Boiler two copies (or one electronic document pursuant to Condition 3.5.3) of the performance evaluation report of CEMS or PEMS for each unit and a copy of the Re-Certification Application.
[40 CFR §40 CFR §75.63.]

4.5.2. Once the CEMS or PEMS for No. 4, No. 5 and No. 6 Boilers has been certified after being converted to natural gas; *Semi-Annual CO and NO_x Excess Emission and Monitoring System Performance Report* to be included with the facility's Annual and Semi-Annual Title V Compliance Report, the permittee shall submit a report to the Director summarizing CO and NO_x emissions including periods of startups, shutdowns, malfunctions, and CEMS or PEMS system monitor availability for the reporting period. The reporting period is January 1st to June 30th and July 1st to December 31st. Such report shall contain the information collected during the respective reporting period as required in Condition 4.4.5. Any emissions data that indicates that the limits as stated in Section 4.1. were exceeded during the corresponding reporting period must be noted in this summary report. At the minimum, the date and time, length of the exceedances(s), magnitude, percentage of excess emissions, the limit that was exceeded, the cause of the exceedances, and the corrective action taken shall be included in the summary report. Submittal of 40 CFR 75 data (NO_x) in electronic data reporting (EDR or XML) format to the Administrator shall be deemed to satisfy the reporting

requirements of this condition for NO_x emissions from Nos. 4 and 5 Boilers, expect that excess NOx emission from No. 5 Boiler shall be included in this report.
[40 CFR §60.7(c); 40 CFR §§60.49b(h) and (2)(ii); and 45CSR§13-3]

4.5.3. The permittee shall submit a "Notification of Compliance Status" to the Director before the close of business on the sixtieth (60th) day after completion of the initial compliance demonstration as required in 40 CFR §63.7530(e) and (g) for No. 4 Boiler. Such "Notification of Compliance Status" shall be in accordance with 40 CFR §63.9(h)(2(ii) and contain the information specified in 40 CFR §§63.7545(e)(1), (2), (6), (7) and (8), which included a statement the one time energy assessment was completed, the initial tune-up for the unit was completed and the initial fuel analysis was conducted according to §63.7525 for the hydrogen gas and meet the specifications as an "other gas (1) fuel" (Condition 4.1.4.).
[40CFR§63.7545(e), §63.7530(e) and (g)]

4.5.4. The permittee shall submit "5-year Compliance Reports" for the Nos. 4, 5, and 6 Boilers electronically using CEDRI that is accessed through the EPA's Center Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form for this report is not available in CEDRI at the time the report is due, the permittee shall submit the report to the Administrator and Director using the addresses listed in Condition 3.5.3. The first compliance report shall be submitted no later than five years after the initial start-up of the unit and the first date ending on January 31. Subsequent reports shall be submitted once every five years afterwards. Such reports shall contain the information specified in 40 CFR §§63.7550(c)(5) (i)through (iv) and (xiv) which are:

a. Permittee and facility name, and address;

b. Process unit information, emission limitations, and operating limitations;

c. Date of report and beginning and ending dates of the reporting period;

d. The total operating time during the reporting period of each affected unit;

e. Include the date of the most recent tune-up for each boiler; and

f. Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown.

The permittee shall maintain records of such reports in accordance with Condition 3.4.1.
[40CFR §§63.7550(b), (b)(1), (c)(1), & (c)(5)(i) though (iv) and (xiv), and (h)(3)]

CERTIFICATION OF DATA ACCURACY

I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all information contained in the attached _____, representing the period beginning _____ and ending _____, and any supporting documents appended hereto, is true, accurate, and complete.

Signature[1] _____ _____
(please use blue ink) Responsible Official or Authorized Representative Date

Name & Title _____ _____
(please print or type) Name Title

Telephone No. _____ Fax No. _____

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[1] This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:

a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:

(i) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding $25 million (in second quarter 1980 dollars), or

(ii) the delegation of authority to such representative is approved in advance by the Director;

b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;

c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of U.S. EPA); or

d. The designated representative delegated with such authority and approved in advance by the Director.