



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

### Blue Ridge Regional Office

www.deq.virginia.gov

Douglas W. Domenech  
Secretary of Natural Resources

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Director

Robert J. Weld  
Regional Director

**Roanoke Office**  
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Roanoke, Virginia 24019  
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December 6, 2012

Mr. Bill Batson  
Site Manager  
Celanese Acetate LLC  
PO Box 1000, Route 460  
Narrows, VA 24124

Location: Giles County  
Registration No.: 20304  
AIRS ID: 51- 071-0004

Dear Mr. Batson:

Attached is a permit to construct and operate six natural gas fired boilers in accordance with the provisions of the Virginia State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. Please read all permit conditions carefully.

The Department of Environmental Quality (DEQ) deemed the application complete on August 15, 2012. The Department solicited written public comments by placing a newspaper advertisement in the *Virginian Leader* on October 17, 2012. The required comment period provided by 9 VAC 5-80-1775 expired on December 5, 2012. A public hearing was held on November 20, 2012.

This permit approval to construct and operate shall not relieve Celanese Acetate, LLC of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. 9 VAC 5-170-180 provides that you may request direct consideration of the decision by the Board if the Director of the DEQ made the decision. Please consult the relevant regulations for additional requirements for such requests.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

David K. Paylor, Director  
Department of Environmental Quality  
P. O. Box 1105  
Richmond, VA 23218

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

If you have any questions concerning this permit, please contact Patrick Corbett at (434)582-6230.

Sincerely,



Robert J. Weld  
Regional Director

Attachment: Permit  
Source Testing Report Format

cc: Director, OAPP (electronic file submission)  
Manager, Data Analysis (electronic file submission)  
Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III



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**PREVENTION OF SIGNIFICANT DETERIORATION PERMIT  
STATIONARY SOURCE PERMIT TO CONSTRUCT AND OPERATE**

This permit includes designated equipment subject to New Source Performance Standards (NSPS).

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

Celanese Acetate, LLC  
PO Box 1000, Route 460  
Narrows, Virginia 24124  
Registration No.: 20304

is authorized to construct and operate

six natural gas-fired boilers

located at

3520 Virginia Avenue near Narrows, Virginia

in accordance with the Conditions of this permit.

Approved on December 6, 2012.

A handwritten signature in black ink, appearing to read "Robert J. Weld".

Robert J. Weld  
Regional Director

Permit consists of 14 pages.  
Permit Conditions 1 to 36.

**INTRODUCTION**

This permit approval is based on the permit application dated May 8, 2012, including supplemental information dated July 19, 2012 and August 13, 2012. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action. In addition, this facility may be subject to additional applicable requirements not listed in this permit.

Words or terms used in this permit shall have meanings as provided in 9VAC5-10-20 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§2.2-3700 through 2.2-3714 of the Code of Virginia, §10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9VAC5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

**PROCESS REQUIREMENTS**

1. **Equipment List** - Equipment at this facility includes, but is not limited to, the following:

<b>Equipment to be Constructed</b>			
<b>Ref. No.</b>	<b>Equipment Description</b>	<b>Rated Capacity</b>	<b>Federal Requirements</b>
B10 – B15	Six natural gas-fired boilers with distillate oil back-up	400 MMBtu/hr, each	NSPS Db
TK01 – TK03	Three distillate oil storage tanks	250,000 gallons, each	
<b>Equipment Previously Installed</b>			
<b>Ref. No.</b>	<b>Equipment Description</b>	<b>Rated Capacity</b>	<b>Federal Requirements</b>
B1	Babcox & Wilcox, Coal Boiler #1	91 MMBtu/hr	
B2	Babcox & Wilcox, Coal Boiler #2	91 MMBtu/hr	
B3	Riley, Coal Boiler #3	184 MMBtu/hr	
B4	Riley, Coal Boiler #4	184 MMBtu/hr	
B5	Riley, Coal Boiler #5	246 MMBtu/hr	
B6	Riley, Coal Boiler #6	246 MMBtu/hr	
B7	Foster Wheeler, Coal Boiler #7	322 MMBtu/hr	
3BHSL001S1	Dry flyash handling system		
3BHSL001S1	Dry flyash handling system		
3BHSL001S1	Dry flyash handling system ash storage silo		
3BHAS002S1	Coal Handling & Storage		
3BHTK001S1	Fuel Oil Storage Tank	250,000 gal	

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.

(9VAC5-80-1180 D.3 and 9VAC5-80-1985)

2. **Fuel** - The approved fuels for the natural gas-fired boilers (B10 – B15) are distillate oil and natural gas. A change in the fuels may require a permit to modify and operate.  
(9VAC5-80-1180 and 9VAC5-80-1985)
3. **Fuel Throughput** - The distillate oil storage tanks' (TK01 – TK03) combined throughput shall not exceed 6,470,720 gallons of distillate oil fuel per year, calculated as the sum of each consecutive 12 month period. Throughput shall be calculated using the volume unloaded into the tanks, excluding the initial filling event of each tank (i.e., a one-time unloading event).  
(9VAC5-80-1985, 9VAC5-80-1705, and 9VAC5-50-280)
4. **Fuel Throughput** – Consumption of coal in the coal fired boilers (B1 – B7) shall be limited by the following schedule:
  - a. Upon the first natural gas-fired boiler (B10) becoming operational, coal consumption shall not exceed 7,779,410.6 MMBtu per year, calculated monthly as the sum of each consecutive 12-month period.
  - b. Upon the second natural gas-fired boiler (B11) becoming operational, coal consumption shall not exceed 5,803,736.4 MMBtu per year, calculated monthly as the sum of each consecutive 12-month period.
  - c. Upon the third natural gas-fired boiler (B12) becoming operational, coal consumption shall not exceed 3,828,062.1 MMBtu per year, calculated monthly as the sum of each consecutive 12-month period.
  - d. Upon the fourth natural gas-fired boiler (B13) becoming operational, coal consumption shall not exceed 1,852,387.9 MMBtu per year, calculated monthly as the sum of each consecutive 12-month period.
  - e. Upon the fifth natural gas-fired boiler (B14) becoming operational, the coal boilers (B1 – B7) and associated material handling equipment (3BHSL001S1, 3BHSL001S1, 3BHSL001S1, 3BHAS002S1) shall permanently cease operation. Restarting operation for any of this equipment shall be considered a physical change or change in the method of operation at the facility.

Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. For the purpose of this permit, “becoming operational” does not include a shakedown period for each new natural gas-fired boiler not to exceed 180 days after start-up. “Becoming operational” will have occurred no later than the beginning of the first initial performance test required pursuant to this permit or 40CFR60 Subpart Db for each boiler.  
(9VAC5-80-1180)

5. **Fuel Throughput** - The natural gas-fired boilers (B10 – B15) combined shall consume no more than 17,691,928 MMBtu of natural gas per year and 873,547.2 MMBtu of distillate oil per year,

calculated as the sum of each consecutive 12 month period. If both fuels are combusted during any consecutive 12 month period, the natural gas limitation shall not exceed the amount as calculated by the following equation:

$$NG = 17691928 - 1.3984 * DO$$

where

NG = all boilers combined annual limit on consumption of natural gas, in units of MMBtu/yr

DO = all boilers combined annual consumption of distillate oil, in units of MMBtu/yr

Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9VAC5-80-1180)

6. **Fuel Specifications** - The approved fuels shall meet the specifications below:

DISTILLATE OIL which meets the ASTM D396 specification for Grades 1 or 2 fuel oil:  
Maximum sulfur content per shipment: 15 ppm

NATURAL GAS which meets the definition contained in 40CFR72.2 for "pipeline natural gas"

(9VAC5-80-1180 and 9VAC5-80-1985)

7. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier;
- b. The date on which the distillate oil was received;
- c. The quantity of distillate oil delivered in the shipment;
- d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications ASTM D396 for Grades 1 or 2 fuel oil, or other DEQ approved fuel specifications;
- e. The sulfur content of the distillate oil;

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition 6. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.

(9VAC5-80-1180, 9VAC5-80-1985, and 9VAC5-50-410)

**EMISSION LIMITS**

8. **Emission Limits** - Emissions from the operation of each natural gas-fired boiler (B10 - B15) when firing distillate oil shall not exceed the limits specified below:

PM (filterable)	5.9 lbs/hr
PM-10	6.8 lbs/hr
Nitrogen Oxides (as NO <sub>2</sub> )	30.7 lbs/hr

(9VAC5-80-1180)

9. **Emission Limits** - Emissions from the operation of each natural gas-fired boiler (B10 - B15) when firing only natural gas shall not exceed the limits specified below:

PM (filterable)	0.8 lbs/hr
PM-10	3.1 lbs/hr
Nitrogen Oxides (as NO <sub>2</sub> )	14.6 lbs/hr

(9VAC5-80-1180)

10. **Emission Limits** - Emissions from the operation of each natural gas-fired boiler (B10 - B15) shall not exceed the limits specified below:

Nitrogen Oxides (distillate oil) (as NO <sub>2</sub> )	0.077 lb/MMBtu*
Nitrogen Oxides (natural gas) (as NO <sub>2</sub> )	0.036 lb/MMBtu*

\* - Calculated as a rolling 30-day average including periods of start-up and shutdown. For any 30-day period with multiple fuel combustion ("simultaneously combusts"), the limitation shall be calculated in accordance with 40CFR60.44b(b) except the emission limitations for natural gas and distillate oil shall be those from this condition.

(9VAC5-80-1180)

11. **Emission Limits** - Emissions from the operation of each natural gas-fired boiler (B10 - B15) when firing distillate oil shall not exceed the limits specified below:

Carbon Monoxide	50 ppm @ 3% O <sub>2</sub> *	(9VAC5-80-1705 and 9VAC5-50-280)
Carbon Monoxide	15.6 lbs/hr	(9VAC5-80-1715)
Volatile Organic Compounds	2.2 lbs/hr	(9VAC5-80-1705 and 9VAC5-50-280)

\* - Calculated as a rolling 24-hour average including periods of start-up and shutdown

(9VAC5-80-1985)

12. **Emission Limits** - Emissions from the operation of each natural gas-fired boiler (B10 - B15) when firing only natural gas shall not exceed the limits specified below:

Carbon Monoxide	50 ppm @ 3% O <sub>2</sub> *	(9VAC5-80-1705 and 9VAC5-50-280)
Carbon Monoxide	14.8 lbs/hr	(9VAC5-80-1715)
Volatile Organic Compounds	2.2 lbs/hr	(9VAC5-80-1705 and 9VAC5-50-280)

\* - Calculated as a rolling 24-hour average including periods of start-up and shutdown

(9VAC5-80-1985)

13. **Emission Limits** - Total emissions from the natural gas-fired boilers (B10 – B15) combined shall not exceed the limits specified below:

PM	22.1 tons/yr
PM-10	70.0 tons/yr
Nitrogen Oxides (as NO <sub>2</sub> )	333.3 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 5, 8, 9, 11, and 12.  
(9VAC5-80-1180)

14. **Emission Limits** - Total emissions from the natural gas-fired boilers (B10 – B15) combined shall not exceed the limits specified below:

Carbon Monoxide	326.7 tons/yr
Volatile Organic Compounds	48.7 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 5, 8, 9, 11, and 12.  
(9VAC5-80-1985)

15. **Visible Emission Limit** - Visible emissions from each natural gas-fired boiler (B10 - B15) shall not exceed 10 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9VAC5-80-1180)
16. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirement, the NSPS equipment as described in Condition 1 shall be operated in compliance with the requirements of 40CFR60 Subpart Db.  
(9VAC5-80-1180, 9VAC5-50-400, and 9VAC5-50-410)

### CEMS/COMS

17. **CEMS** - Continuous Emission Monitoring Systems, meeting the design specifications of 40CFR Part 60, Appendix B, shall be installed to measure and record the emissions of nitrogen oxides (NO<sub>x</sub>) as lbs/MMBtu and either the oxygen or carbon dioxide content of the flue gases from each natural gas-fired boiler (B10 - B15). The CEMS shall be installed, calibrated, maintained, audited and operated in accordance with the requirements of 40CFR60.13, NSPS Subpart Db, and Appendices B and F. Data shall be reduced to 30 day rolling averages per the procedures in 40 CFR 60 Subpart Db.  
(9VAC5-80-1180, 9VAC5-50-410, and 9VAC5-50-40)
18. **CEMS Performance Evaluations** - Performance evaluations of the continuous monitoring systems shall be conducted in accordance with 40CFR Part 60, Appendix B, and shall take place during the performance tests under 9VAC5-50-30 or within 30 days thereafter. Two copies of the performance evaluations report shall be submitted to the Blue Ridge Regional Office within 45 days of the evaluation. The continuous monitoring systems shall be installed and operational prior to conducting initial performance tests. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation and calibration of the device. A 30 day notification, prior to the demonstration of

continuous monitoring system's performance, and subsequent notifications shall be submitted to the Blue Ridge Regional Office.

(9VAC5-80-1180, 9VAC5-50-410, and 9VAC5-50-40)

19. **CEMS Quality Control Program** - A CEMS quality control program which meets the requirements of 40 CFR 60.13 and Appendix B or F shall be implemented for all continuous monitoring systems.  
(9VAC5-80-1180, 9VAC5-50-410, and 9VAC5-50-40)
  
20. **Reports for Continuous Monitoring Systems** - The permittee shall furnish written reports to the Blue Ridge Regional Office of excess emissions from any process monitored by a continuous monitoring system (CEMS) on a quarterly basis, postmarked no later than the 30th day following the end of the calendar quarter. These reports shall include, but are not limited to the following information:
  - a. The magnitude of excess emissions, any conversion factors used in the calculation of excess emissions, and the date and time of commencement and completion of each period of excess emissions;
  - b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the process, the nature and cause of the 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; and
  - d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in that report.

(9VAC5-80-1180, 9VAC5-50-410, and 9VAC5-50-50)

### **INITIAL COMPLIANCE DETERMINATION**

21. **Stack Test** - Initial performance tests shall be conducted for carbon monoxide (on both lb/hr and 24-hour ppm basis) and volatile organic compounds (lb/hr) from each natural gas-fired boiler (B10 - B15) to determine compliance with the emission limits contained in Condition 12. The tests shall be performed and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of each natural gas-fired boiler (B10 - B15). Tests shall be conducted and reported and data reduced as set forth in 9VAC5-50-30, and the test methods and procedures contained in each applicable section or subpart listed in 9VAC5-50-410. The details of the tests are to be arranged with the Blue Ridge Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. One copy of the test results shall be submitted to the Blue Ridge Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit.  
(9VAC5-50-30 and 9VAC5-80-1675)

22. **Stack Test** - Initial performance test shall be conducted for NO<sub>x</sub> (lbs/hr) from the each natural gas-fired boiler (B10 - B15) to determine compliance with the emission limits contained in Conditions 8 and 9 (each fuel separately). The tests shall be performed concurrently with the CO (lb/hr) test required in Condition 21. The tests shall be performed and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of each natural gas-fired boiler (B10 - B15). Tests shall be conducted and reported and data reduced as set forth in 9VAC5-50-30, and the test methods and procedures contained in each applicable section or subpart listed in 9VAC5-50-410, unless an alternative method utilizing NO<sub>x</sub> CEMS data is approved in the protocol. The details of the tests are to be arranged with the Blue Ridge Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. One copy of the results of each test shall be submitted to the Blue Ridge Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit.  
(9VAC5-50-30 and 9VAC5-80-1200)
23. **Stack Test** - Initial performance tests shall be conducted for NO<sub>x</sub> (lbs/MMBtu) from each natural gas-fired boiler (B10 - B15) to determine compliance with the emission limit contained in Condition 10. The tests shall be performed and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of each natural gas-fired boiler (B10 - B15). Tests shall be conducted and reported and data reduced as set forth in 9VAC5-50-30, and the test methods and procedures contained in each applicable section or subpart listed in 9VAC5-50-410. The details of the tests are to be arranged with the Blue Ridge Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. One copy of the results of each test shall be submitted to the Blue Ridge Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit.  
(9VAC5-50-30, 9VAC5-80-1200, and 9VAC5-50-410)
24. **Visible Emissions Evaluation** - Concurrently with the initial performance test for CO (lb/hr) required in Condition 21 for each natural gas-fired boiler (B10 - B15), Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted by the permittee. Each test shall consist of 30 sets of 24 consecutive observations (at 15 second intervals) to yield a six minute average. The details of the tests are to be arranged with the Blue Ridge Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. The evaluation shall be performed and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. Should conditions prevent concurrent opacity observations, the Blue Ridge Regional Office shall be notified in writing, within seven days, and visible emissions testing shall be rescheduled within 30 days. Rescheduled testing shall be conducted under the same conditions (as possible) as the initial performance tests. One copy of the results of each test shall be submitted to the Blue Ridge Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit.  
(9VAC5-50-30, 9VAC5-80-1200, and 9VAC5-50-410)

25. **Stack Test** - Initial performance tests and VEEs required in Conditions 21, 22, 24 shall be conducted when firing distillate oil. These tests shall be performed within 45 days after the boiler (B10 – B15) has combusted any amount of distillate oil for more than 48 hours in any 12-month period, excluding periods of natural gas curtailment or supply interruption beyond the permittee's control. The test protocol shall be submitted with the notification required in Condition 27.e. (9VAC5-50-30, 9VAC5-80-1200, and 9VAC5-80-1675)

## **RECORDS**

26. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:
- a. For each natural gas-fired boiler (B10 - B15), daily, monthly, and annual consumption (in MMBtu) of natural gas and distillate oil. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
  - b. For each boiler, the hours of operation when firing any amount of distillate oil and the reason for operation in this mode. Annual hours of operation shall be calculated monthly as the sum of each consecutive 12-month period and shall exclude periods of natural gas curtailment or supply interruption beyond the permittee's control. These records shall be used to determine the testing requirements of Condition 25.
  - c. Monthly calculations demonstrating the annual natural gas combustion limitation in accordance with Condition 5.
  - d. Beginning on the date the first natural gas-fired boiler becomes operational, monthly coal combustion in each of the seven coal fired boilers (B1 – B7). Annual coal combustion shall be calculated monthly as the sum of each consecutive 12 month period to demonstrate compliance with each separate limitation in Condition 4.
  - e. Annual total distillate oil throughput for the distillate oil storage tanks (TK01 – TK03) calculated monthly as the sum of each consecutive 12-month period to demonstrate compliance with the limitation in Condition 3.
  - f. All fuel supplier certifications.
  - g. Monthly emissions calculations for NO<sub>x</sub>, CO, VOC, PM, PM-10, and PM-2.5 using calculation methods approved in writing by the Blue Ridge Regional Office to verify compliance with the ton/yr emissions limitations in Conditions 13 and 14.
  - h. Scheduled and unscheduled maintenance, and operator training.

- i. Results of all stack tests, visible emission evaluations and performance evaluations.
- j. Continuous monitoring system calibrations and calibration checks, percent operating time, and excess emissions.
- k. For each natural gas-fired boiler (B10 - B15), other records required to comply with Condition 16.
- l. For each natural gas-fired boiler (B10 - B15) curtailment or supply interruption, the cause of the interruption, the duration of the interruption (in hours), the amount of distillate oil fired during the period, and the corrective actions taken to restore supply for on-site interruptions.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-1180, 9VAC5-80-1985, 9VAC5-50-410, and 9VAC5-50-50)

## **NOTIFICATIONS**

27. **Initial Notifications** - The permittee shall furnish written notification to the Blue Ridge Regional Office of:
  - a. The actual date on which construction of each natural gas-fired boiler (B10 - B15) commenced within 30 days after such date.
  - b. The actual start-up date of each natural gas-fired boiler (B10 - B15) within 15 days after such date.
  - c. The actual date on which each natural gas-fired boiler (B10 - B15) becomes operational (as defined in Condition 4) within 15 days after such date.
  - d. The anticipated date of continuous monitoring system performance evaluations postmarked not less than 30 days prior to such date.
  - e. The anticipated date of performance tests of each natural gas-fired boiler (B10 - B15) postmarked at least 30 days prior to such date. Notification for the purpose of Condition 25 shall be within 15 days after the date on which the 48 hours was exceeded.

Copies of the written notification referenced in items a, b, d, and e above are to be sent to:

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

(9VAC5-50-50 and 9VAC5-80-1180)

## GENERAL CONDITIONS

28. **Permit Invalidation** - This permit to construct the natural gas-fired boilers (B10 – B15) shall become invalid, unless an extension is granted by the DEQ, if:
- a. A program of continuous construction, reconstruction, or modification is not commenced within 18 months from the date of this permit; or
  - b. A program of construction, reconstruction, or modification is discontinued for a period of 18 months or more, or is not completed within a reasonable time, except for a DEQ approved period between phases of a phased construction project.

(9VAC5-80-1210 and 9VAC5-80-1985)

29. **Permit Suspension/Revocation** - This permit may be suspended or revoked if the permittee:
- a. Knowingly makes material misstatements in the permit application or any amendments to it;
  - b. Fails to comply with the conditions of this permit;
  - c. Fails to comply with any emission standards applicable to a permitted emissions unit;
  - d. Causes emissions from the stationary source which result in violations of, or interfere with the attainment and maintenance of, any ambient air quality standard; or
  - e. Fails to operate in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time an application for this permit is submitted.

(9VAC5-80-1210 F and 9VAC5-80-1985)

30. **Right of Entry** - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:
- a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
  - b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
  - c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and

- d. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.  
(9VAC5-170-130 and 9VAC5-80-1180)

31. **Maintenance/Operating Procedures** - At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to the process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.  
(9VAC5-50-20 E and 9VAC5-80-1180 D)

32. **Record of Malfunctions** - The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause), corrective action, preventive measures taken and name of person generating the record.  
(9VAC 5-20-180 J and 9VAC5-80-1180 D)

33. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Blue Ridge Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the

breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Blue Ridge Regional Office.  
(9VAC5-20-180 C and 9VAC5-80-1180)

34. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.  
(9VAC5-20-180 I and 9VAC5-80-1180)
35. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Blue Ridge Regional Office of the change of ownership within 30 days of the transfer.  
(9VAC5-80-1240 and 9VAC5-80-1975)
36. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.  
(9VAC5-80-1180)

## SOURCE TESTING REPORT FORMAT

### Report Cover

1. Plant name and location
2. Units tested at source (indicate Ref. No. used by source in permit or registration)
3. Test Dates.
4. Tester; name, address and report date

### Certification

1. Signed by team leader/certified observer (include certification date)
2. Signed by responsible company official
3. \*Signed by reviewer

### Copy of approved test protocol

### Summary

1. Reason for testing
2. Test dates
3. Identification of unit tested & the maximum rated capacity
4. \*For each emission unit, a table showing:
  - a. Operating rate
  - b. Test Methods
  - c. Pollutants tested
  - d. Test results for each run and the run average
  - e. Pollutant standard or limit
5. Summarized process and control equipment data for each run and the average, as required by the test protocol
6. A statement that test was conducted in accordance with the test protocol or identification & discussion of deviations, including the likely impact on results
7. Any other important information

### Source Operation

1. Description of process and control devices
2. Process and control equipment flow diagram
3. Sampling port location and dimensioned cross section Attached protocol includes: sketch of stack (elevation view) showing sampling port locations, upstream and downstream flow disturbances and their distances from ports; and a sketch of stack (plan view) showing sampling ports, ducts entering the stack and stack diameter or dimensions

### Test Results

1. Detailed test results for each run
2. \*Sample calculations
3. \*Description of collected samples, to include audits when applicable

### Appendix

1. \*Raw production data
2. \*Raw field data
3. \*Laboratory reports
4. \*Chain of custody records for lab samples
5. \*Calibration procedures and results
6. Project participants and titles
7. Observers' names (industry and agency)
8. Related correspondence
9. Standard procedures

\* Not applicable to visible emission evaluations