



BWX Technologies, Inc.

December 3, 2021
21-066

ATTN: Document Control Desk
Director, Office of Nuclear Material Safety & Safeguards
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Reference: License No. SNM-42, Docket 70-27

Subject: State Air Permit Modification

Dear Sir or Madam:

In accordance with Chapter 1, *General Information*, Section 1.5.9 of the SNM-42 License Application BWXT Nuclear Operations Group, Inc. Lynchburg (BWXT NOG-L) facility is required to inform the Nuclear Regulatory Commission (NRC) when the state permitting agency issues violations or modifies the requirements of the State issued National Pollution Discharge Elimination System (NPDES) permit or air quality permit. As a result of a permit modification, an updated air permit was recently issued to BWXT NOG-L. A copy of the permit, which was received by BWXT NOG-L on November 23, 2021, is included as an enclosure to this letter.

If you have questions or require additional information, please contact Chris Terry, Manager of Licensing and Safety Analysis, at cterry@bwxt.com or 434-522-5202.

Sincerely,

Richard J. Freudenberger
Manager, Environment, Safety, Health & Safeguards
BWXT Nuclear Operations Group, Inc. – Lynchburg

Enclosure

cc: NRC, James Downs, Sr. Project Inspector
NRC, Region II
NRC, Resident Inspector

NMSS01
NMSS

ENCLOSURE



COMMONWEALTH of VIRGINIA

Ann F. Jennings
Secretary of Natural and
Historic Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
Blue Ridge Regional Office
901 Russell Drive, Salem, VA 24153
(540) 562-6700; Fax (804) 698-4178
www.deq.virginia.gov

David K. Paylor
Director

Robert J. Weld
Regional Director

November 23, 2021

Mr. Jim Bittner
Vice President and General Manager
BWXT Nuclear Operations Group, Inc.
1570 Mt. Athos Road
Lynchburg, VA 24504

Location: Campbell County
Registration No.: 30260

Dear Mr. Bittner,

Attached is a permit to construct and operate a project at a nuclear component and fuel production facility in accordance with the provisions of the Virginia State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution.

In the course of evaluating the application and arriving at a final decision to approve the project, the Department of Environmental Quality (DEQ) deemed the application complete on July 29, 2021.

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.

This permit approval to construct and operate shall not relieve BWXT Nuclear Operations Group, Inc. 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. Please consult the relevant regulations for additional requirements for such requests.

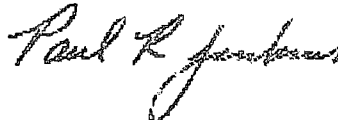
As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

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 Blake Apo at 540-598-0456 or blake.apo@deq.virginia.gov.

Sincerely,



for Robert J. Weld
Regional Director

Attachment: Permit

cc: Nicole Wright, DEQ BRRO Air Compliance Inspector (electronic)
Jim Bittner (jjbittner@bwxt.com)
Vincent St. Angelo (vjstangelo@bwxt.com)



COMMONWEALTH of VIRGINIA

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David K. Paylor
Director

Robert J. Weld
Regional Director

STATIONARY SOURCE PERMIT TO CONSTRUCT AND OPERATE STATIONARY SOURCE PERMIT TO OPERATE

This permit supersedes your permit dated June 4, 2007.

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

BWXT Nuclear Operations Group Inc.
1570 Mt Athos Road
Lynchburg, VA 24504
Registration No.: 30260

is authorized to operate

two Vertical Tube Furnaces, one Centorr Finishing Furnace, and
one TRISO Coating Furnace

located at

1570 Mt Athos Road, Lynchburg, VA 24504

in accordance with the Conditions of this permit.

Approved on November 23, 2021.

A handwritten signature in cursive script, appearing to read "Paul R. Jennings".

for Robert J. Weld
Regional Director, Department of Environmental Quality

Permit consists of 11 pages.
Permit Conditions 1 to 32

INTRODUCTION

This permit approval is based on and combines permit terms and conditions in accordance with 9VAC5-80-1255 from the following permit approvals and the respective permit applications:

- State operating permit approval and minor new source review approval dated November 23, 2021, based on the permit application dated July 23, 2021.
- State operating permit approval dated June 4, 2007 based on the applications dated March 22, 2007, and August 12, 2002, and including amendment information dated November 2, 2006, August 29, 2002, August 28, 2002, and September 11, 1995.

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 9VAC5-10-10 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. The most recent effective date for a term or condition is listed in brackets []. When identical conditions on approval for an emission unit or units are combined, the effective date listed in this permit does not alter the prior effective date(s) for any such conditions as issued in a previous permit approval. In accordance with 9VAC5-80-1120F, any condition not marked as state-only enforceable (SOE) is state and federally enforceable.

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.

Equipment List - Equipment at this facility covered by this permit consists of:

Equipment to be Constructed:

Reference No.	Equipment Description	Rated Capacity	Delegated Federal Requirements
EU-14A-11	TRISO Coating Furnace	4200 g/hr MTS Feed	

Other Permitted Equipment:

Reference No.	Equipment Description	Rated Capacity	Delegated Federal Requirements
EU-12A-3A & EU-12A-3B	Two ThermCraft Vertical Tube Finishing Furnaces		
EU-13A-2	One Centorr Finishing Furnace	6 inch finishing	

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

PROCESS REQUIREMENTS

- Emission Controls** - HCl emissions from the two Vertical Tube Finishing Furnaces and Centorr Finishing Furnace (EU-12A-3A, EU-12A-3B, and EU-13A-2) shall be controlled by a packed column scrubber (PC-13A-5), adsorber (PC-13A-12), and a HEPA filter (PC-13A-3). The scrubber, adsorber, and filter shall be provided with adequate access for inspection and shall be in operation when the furnaces are operating.
 (9VAC5-60-320 and 9VAC5-80-850) [June 4, 2007]
- Monitoring Devices** - The scrubber (PC-13A-5) shall be equipped with devices to continuously measure the scrubber liquid flow rate and differential pressure drop across the scrubber. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the finishing furnaces are operating.
 (9VAC5-80-1180, 9VAC5-80-890, and 9VAC5-60-320) [June 4, 2007]
- Emission Controls** - Hydrogen Chloride emissions from the TRISO Coating Furnace (EU-14A-11) shall be controlled by a Wet Scrubber (PC-14A-6). The Wet Scrubber shall be provided with adequate access for inspection and shall be in operation when the TRISO Coating Furnace is operating.
 (9VAC5-80-850) [November 23, 2021]
- Control Efficiency** - The Wet Scrubber (PC-14A-6) shall achieve a control efficiency for Hydrogen Chloride (HCl) of no less than 99.25 percent, to be demonstrated by a DEQ-approved performance test.
 (9VAC5-80-850) [November 23, 2021]
- Monitoring Devices** - The Wet Scrubber (PC-14A-6) controlling the TRISO Coating Furnace (EU-14A-11) shall be equipped with devices to continuously measure the liquid flow rate and the differential pressure drop across the Wet Scrubber. The permittee shall establish a normal operating range for the flow rate and differential pressure drop the Wet Scrubber, based on manufacturer's recommendations, developed from observations

recorded from the monitoring devices during normal operation, performance test data and/or other DEQ approved methods.
(9VAC5-80-890) [November 23, 2021]

6. **Monitoring Device Observation** - To ensure good performance, the control monitoring devices used to continuously measure the liquid flow rate and the differential pressure drop shall be observed by the permittee with a frequency of not less than once per day when the scrubber is in operation. The permittee shall keep a log of the observations or continuously record measurements from the Wet Scrubber (PC-14A-6) controlling the TRISO Coating Furnace (EU-14A-11).
(9VAC5-80-890) [November 23, 2021]

OPERATING LIMITS

7. **Throughput** - The throughput of methyltrichlorosilane (MTS) fed to the TRISO Coating Furnace (EU-14A-11) shall not exceed 2,400 grams/hr 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.
(9VAC5-80-850) [November 23, 2021]

EMISSION LIMITS

8. **Process Emission Limits** - Emissions from the operation of each of the two Vertical Tube Finishing Furnaces (EU-12A-3A and EU-12A-3B) shall not exceed the limits specified below:

Hydrogen Chloride 0.01 lbs/hr (each)

(9VAC5-80-1180 and 9VAC5-80-850) [June 4, 2007]

9. **Process Emission Limits** - Emissions from the operation of the Centorr Finishing Furnace (EU-13A-2) shall not exceed the limits specified below:

Hydrogen Chloride 0.05 lbs/hr

(9VAC5-80-1180 and 9VAC5-80-850) [June 4, 2007]

10. **Process Emission Limits** - Emissions from the operation of the TRISO Coating Furnace (EU-14-A11) shall not exceed the limits specified below:

Hydrogen Chloride 0.05 lbs/hr

(9VAC5-80-850 and 9VAC5-60-320) [November 23, 2021]

11. **Visible Emission Limit** - Visible emissions from the two Vertical Tube Finishing Furnaces (EU-12A-3A, EU-12A-3B), Centorr Finishing Furnace (EU-13A-2) and TRISO Coating Furnace (EU-14-A1¹) shall not exceed 5 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9VAC5-80-850 and 9VAC5-50-260¹) [November 23, 2021]

RECORDS

12. **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. Annual consumption of chlorine (in tons) in the two Vertical Tube Finishing Furnaces and Centorr Finishing Furnace (EU-12A-3A, EU-12A-3B, and EU-13A-2), 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. [June 4, 2007]
 - b. Annual emissions of hydrogen chloride (in tons) from the two Vertical Tube Finishing Furnaces and Centorr Finishing Furnace (EU-12A-3A, EU-12A-3B, and EU-13A-2), 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. [June 4, 2007]
 - c. Records verifying the control efficiency of the Wet Scrubber (PC-14A-6) controls required by Condition 4. [November 23, 2021]
 - d. Operation and control device monitoring records for the Wet Scrubber (PC-14A-6) as required in Conditions 5 and 6. [November 23, 2021]
 - e. Hourly throughput (in grams) of methyltrichlorosilane (MTS) used in the TRISO Coating Furnace (EU-14A-11) to verify compliance with the throughput limitation in Condition 7. [November 23, 2021]
 - f. Hourly emissions calculations for hydrogen chloride (HCl) from the TRISO Coating Furnace (EU-14A-11), using calculation methods approved by the Blue Ridge Regional Office to verify compliance with the lb/hr emissions limitation in Condition 10. [November 23, 2021]

¹ BACT citation only applies to EU-12A-3A, EU-12A-3B and EU-13A-2 as indicated from previous permit actions.

- g. Performance test results. [November 23, 2021]
- h. Scheduled and unscheduled maintenance and operator training. [November 23, 2021]

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

(9VAC5-80-1180 and 9VAC5-80-850)

13. **Emission Testing** - The two Vertical Tube Finishing Furnaces (EU-12A-3A, EU-12A-3B), Centorr Finishing Furnace (EU-13A-2) and TRISO Coating Furnace (EU-14-A11) shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.
(9VAC5-80-880 and 9VAC5-80-850) [November 23, 2021]

GENERAL CONDITIONS

14. **Permit Invalidation** - The portions of this permit to construct the TRISO Coating Furnace shall become invalid, unless an extension is granted by the DEQ, if:

- a. A program of continuous construction is not commenced within 18 months from the date of this permit.
- b. A program of construction 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 the phased construction of a new stationary source or project.

(9VAC5-80-1210)

15. **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 emissions limitations, in the State Implementation Plan in effect at the time an application for this permit is submitted.

- f. Fails to comply with the applicable provisions of Articles 6, 8, and 9 of 9VAC5 Chapter 80.

(9VAC5-80-1210 G and 9VAC5-80-1010)

- 16. **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, 9VAC5-80-1180 and 9VAC5-80-850)

- 17. **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 air pollution control equipment and 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, 9VAC5-80-1180 and 9VAC5-80-850)

18. **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.
(9VAC5-20-180 J and 9VAC5-80-850)
19. **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. Such notification shall be made 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 14 days 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, 9VAC5-80-1180 and 9VAC5-80-850)
20. **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, 9VAC5-80-1180 and 9VAC5-80-850)
21. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current minor NSR 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 9VAC5-80-940)
22. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9VAC5-80-1180 and 9VAC5-80-860 D)

STATE ONLY ENFORCEABLE (SOE) REQUIREMENTS

The following terms and conditions are included in this permit to implement the requirements of 9VAC5-40-130 et seq., 9VAC5-50-130 et seq., 9VAC5-60-200 et seq. and/or 9VAC5-60-300 et seq. and are enforceable only by the Virginia Air Pollution Control Board. Neither their inclusion in this permit nor any resulting public comment period make these terms federally enforceable.

PROCESS REQUIRMENTS

23. **SOE – Emission Controls** – Hydrogen Chloride emissions from the TRISO Coating Furnace (EU-14A-11) shall be controlled by a Wet Scrubber (PC-14A-6). The Wet Scrubber shall be provided with adequate access for inspection and shall be in operation when the TRISO Coating Furnace is operating.
(9VAC5-60-320, 9VAC5-80-1120F and 9VAC5-80-1180) [November 23, 2021]
24. **SOE – Control Efficiency** - The Wet Scrubber (PC-14A-6) shall achieve a control efficiency for Hydrogen Chloride (HCl) of no less than 99.25 percent, to be demonstrated by a DEQ-approved performance test.
(9VAC5-60-320, 9VAC5-80-1120F and 9VAC5-80-1180) [November 23, 2021]
25. **SOE – Monitoring Devices** – The Wet Scrubber (PC-14A-6) controlling the TRISO Coating Furnace (EU-14A-11) shall be equipped with devices to continuously measure the liquid flow rate and the differential pressure drop across the Wet Scrubber. The permittee shall establish a normal operating range for the flow rate and differential pressure drop the Wet Scrubber, based on manufacturer's recommendations, developed from observations recorded from the monitoring devices during normal operation, performance test data and/or other DEQ approved methods.
(9VAC5-80-1120F and 9VAC5-80-1180) [November 23, 2021]
26. **SOE - Monitoring Device Observation** - To ensure good performance, the control monitoring devices used to continuously measure the liquid flow rate and the differential pressure drop shall be observed by the permittee with a frequency of not less than once per day. The permittee shall keep a log of the observations or continuously record measurements from the Wet Scrubber (PC-14A-6) controlling the TRISO Coating Furnace (EU-14A-11).
(9VAC5-80-1120F and 9VAC5-80-1180) [November 23, 2021]

OPERATING LIMITS

27. **SOE – Throughput** - The throughput of methyltrichlorosilane (MTS) fed to the TRISO Coating Furnace (EU-14A-11) shall not exceed 2,400 grams/hr 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.
(9VAC5-80-1120F and 9VAC5-80-1180) [November 23, 2021]

EMISSION LIMITS

28. **SOE – Process Emission Limits** – Emissions from the operation of the TRISO Coating Furnace (EU-14-A11) shall not exceed the limits specified below:

Hydrogen Chloride 0.05 lbs/hr

(9VAC5-60-320, 9VAC5-80-1120F and 9VAC5-80-1180) [November 23, 2021]

29. **SOE - Visible Emission Limit** - Visible emissions from the TRISO Coating Furnace (EU-14A-11) shall not exceed 5 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).
(9VAC5-80-1120F and 9VAC5-80-1180) [November 23, 2021]

RECORDS

30. **SOE – 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. Records verifying the control efficiency of the Wet Scrubber (PC-14A-6) controls required by Condition 23.
 - b. Operation and control device monitoring records for the Wet Scrubber (PC-14A-6) as required in Conditions 25 and 26.
 - c. Hourly throughput (in grams) of methyltrichlorosilane (MTS) used in the TRISO Coating Furnace (EU-14A-11) to verify compliance with the throughput limitation in Condition 27.
 - d. Hourly emissions calculations for hydrogen chloride (HCl) from the TRISO Coating Furnace (EU-14A-11), using calculation methods approved by the Blue Ridge Regional Office to verify compliance with the lb/hr emissions limitation in Condition 28.
 - e. Performance test results.
 - f. Scheduled and unscheduled maintenance and operator training.

These records shall be available for inspection by the Blue Ridge Regional Office and shall be current for the most recent five years.

(9VAC5-80-1120F and 9VAC5-80-1180) [November 23, 2021]

INITIAL COMPLIANCE DETERMINATION

31. **SOE – Performance Test** – Initial performance tests shall be conducted for HCl from the Wet Scrubber stack to determine compliance with the emission limits and control efficiency requirements contained in Conditions 24 and 28. The test shall be performed 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. The details of the test shall 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 9VAC5-80-1200) [November 23, 2021]

NOTIFICATIONS

32. **SOE – Initial Notifications** – The permittee shall furnish written notification to the Blue Ridge Regional Office of:
- a. The actual date on which construction of the TRISO Coating Furnace (EU-14A-11) commenced within 30 days after such date.
 - b. The anticipated start-up date of the TRISO Coating Furnace (EU-14A-11) postmarked not more than 60 days nor less than 30 days prior to such date.
 - c. The actual start-up date of the TRISO Coating Furnace (EU-14A-11) within 15 days after such date.

(9VAC5-80-1120F and 9VAC5-80-1180) [November 23, 2021]

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