

PUBLIC NOTICE

Tennessee Valley Authority – Bull Run Fossil Plant has applied to the Tennessee Department of Environment and Conservation, Division of Air Pollution Control for renewal of their major source (Title V) operating permit subject to the provisions of Tennessee Air Pollution Control Regulations 1200-03-09-.02(11) (Title V Regulations). A major source operating permit is required by both the Federal Clean Air Act and Tennessee's air pollution control regulations. The Title V operating permit is identified as follows: Division identification number 01-0009/578012.

EPA has agreed to treat this draft Part 70 permit as a proposed Part 70 permit and to perform its 45-day review provided by the law concurrently with the public notice period. If any substantive comments are received, EPA's 45-day review period will cease to be performed concurrently with the public notice period. In this case, EPA's 45-day review period will start once the public notice period has been completed and EPA receives notification from the Tennessee Air Pollution Control Division that comments have been received and resolved. The status regarding EPA's 45-day review of these permits and the deadline for submitting a citizen's petition can be found at the following website address:

<https://www.epa.gov/caa-permitting/tennessee-proposed-title-v-permits>

Copies of the application materials and draft permit are available for public inspection during normal business hours at the following locations:

Tennessee Department of Environment and Conservation
Division of Air Pollution Control
Knoxville Environmental Field Office
3711 Middlebrook Pike
Knoxville, TN 37921

and

Tennessee Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243

At this time, visitors are seen at the Environmental Field Office by appointment only. You should contact the Environmental Field Office for an appointment to review the document by calling (865) 594-6035.

Electronic copies of the draft permits are available by accessing the TDEC internet site located at:

<http://www.tn.gov/environment/topic/ppo-air>

Questions concerning the source(s) may be addressed to Travis Blake at (615) 532-0617 or by e-mail at travis.blake@tn.gov.

Interested parties are invited to review these materials and comment. In addition, a public hearing may be requested at which written or oral presentations may be made. To be considered, written comments or requests for a public hearing must be received no later than 4:30 PM on **November 16, 2020**. To assure that written comments are received and addressed in a timely manner, written comments must be submitted using one of the following methods:

1. **Mail, private carrier, or hand delivery:** Address written comments to Ms. Michelle W. Owenby, Director, Division of Air Pollution Control, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue 15th Floor, Nashville, Tennessee 37243.
2. **E-mail:** Submit electronic comments to air.pollution.control@tn.gov.

A final determination will be made after weighing all relevant comments.

Individuals with disabilities who wish to review information maintained at the above-mentioned depositories should contact the Tennessee Department of Environment and Conservation to discuss any auxiliary aids or services needed to facilitate such review. Such contact may be in person, by writing, telephone, or other means, and should be made no less than ten days prior to the end of the public comment period to allow time to provide such aid or services. Contact the Tennessee Department of Environment and Conservation ADA Coordinator, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue 22nd Floor, Nashville, TN 37243, 1-(866)-253-5827. Hearing impaired callers may use the Tennessee Relay Service, 1-(800)-848-0298.

For the *Oak Ridger* – publish once during the time period of October 12, 2020 through October 16, 2020.

Air Pollution Control DATE: OCTOBER 1, 2020
Assigned to – Travis Blake

No alterations to the above are allowed:

TVA must pay to place this advertisement in the newspaper

Air Pollution Control must be furnished with an affidavit from the newspaper stating that the ad was run and the date of the ad or one complete sheet from the newspaper showing this advertisement, the name of the newspaper and the date of publication. Mail to Travis Blake, Division of Air Pollution Control, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue 15th Floor, Nashville, Tennessee 37243.

STATE OF TENNESSEE
AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531



OPERATING PERMIT (TITLE V) Issued Pursuant to Tennessee Air Quality Act

This permit fulfills the requirements of Title V of the Federal Clean Air Act (42 U.S.C. 7661a-7661e) and the federal regulations promulgated thereunder at 40 CFR Part 70 (FR Vol. 57, No. 140, Tuesday, July 21, 1992 p.32295-32312). This permit is issued in accordance with the provisions of paragraph 1200-03-09-.02(11) of the Tennessee Air Pollution Control Regulations (TAPCR). The permittee has been granted permission to operate an air contaminant source in accordance with emissions limitations and monitoring requirements set forth herein.

Date Issued: *****DRAFT*****

Permit Number:
578012

Date Expires: *****DRAFT*****

Issued To:
Tennessee Valley Authority
Bull Run Fossil Plant

Installation Address:
1265 Edgemoor Road
Clinton

Installation Description: Coal Fired Steam Electric Generating Plant:

01:	Coal Fired Boiler	10:	Limestone Handling
02, 03, 04:	Auxiliary Boilers 1A, 1B, & 1H	13:	Hydrated Lime Injection System
06:	Ash Handling	14:	Gypsum Handling
07:	Coal Handling	19:	Coal Screening

Facility ID: 01-0009

Renewal Application Due Date:
Between ***** and *****

Primary SIC: 49

Information Relied Upon:

Title V Renewal Application dated February 6, 2020.

(continued on the next page)

TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

POST AT INSTALLATION ADDRESS

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END OF PERMIT NUMBER 578012

ATTACHMENT 1	Opacity Matrix Decision Tree for Visible Emission Evaluation by TVEE Methods 1 and 2 and EPA Method 9, amended September 11, 2013
ATTACHMENT 2	Nonapplicable Requirements
ATTACHMENT 3	Cross-State Air Pollution Rule Requirements
ATTACHMENT 4	Consent Decree Reporting Requirements
ATTACHMENT 5	Summary of Acid Rain monitoring requirements
ATTACHMENT 6	Agreement Letters Dated November 9, 2009, March 25, 2010. and June 12, 2012
ATTACHMENT 7	Title V Fee Selection form
ATTACHMENT 8	Acid Rain Permit

SECTION A

GENERAL PERMIT CONDITIONS

A permit issued under the provisions of paragraph 1200-03-09-.02(11) is a permit issued pursuant to the requirements of Title V of the Federal Act and its implementing Federal regulations promulgated at 40 CFR, Part 70.

- A1. Definitions.** Terms not otherwise defined in the permit shall have the meaning assigned to such terms in the referenced regulation.

TAPCR 1200-03

- A2. Compliance requirement.** All terms and conditions in a permit issued pursuant to paragraph 1200-03-09-.02(11) including any provisions designed to limit a source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act.

The permittee shall comply with all conditions of its permit. Except for requirements specifically designated herein as not being federally enforceable (State Only), non-compliance with the permit requirements is a violation of the Federal Act and the Tennessee Air Quality Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Non-compliance with permit conditions specifically designated herein as not being federally enforceable (State Only) is a violation of the Tennessee Air Quality Act and may be grounds for these actions.

TAPCR 1200-03-09-.02(11)(e)2(i) and 1200-03-09-.02(11)(e)1(vi)(I)

- A3. Need to halt or reduce activity.** The need to halt or reduce activity is not a defense for noncompliance. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. However, nothing in this item shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in assessing penalties for noncompliance if the health, safety or environmental impacts of halting or reducing operations would be more serious than the impacts of continuing operations.

TAPCR 1200-03-09-.02(11)(e)1(vi)(II)

- A4. The permit.** The permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

TAPCR 1200-03-09-.02(11)(e)1(vi)(III)

- A5. Property rights.** The permit does not convey any property rights of any sort, or any exclusive privilege.

TAPCR 1200-03-09-.02(11)(e)1(vi)(IV)

- A6. Submittal of requested information.** The permittee shall furnish to the Technical Secretary, within a reasonable time, any information that the Technical Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or termination of the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Technical Secretary copies of records required to be kept by the permit. If the permittee claims that such information is confidential, the Technical Secretary may review that claim and hold the information in protected status until such time that the Board can hear any contested proceedings regarding confidentiality disputes. If the information is desired by EPA, the permittee may mail the information directly to EPA. Any claims of confidentiality for federal purposes will be determined by EPA.

TAPCR 1200-03-09-.02(11)(e)1(vi)(V)

- A7. Severability clause.** The requirements of this permit are severable. A dispute regarding one or more requirements of this permit does not invalidate or otherwise excuse the permittee from their duty to comply with the remaining portion of the permit.

TAPCR 1200-03-09.02(11)(e)1(v)

A8. Fee payment.

- (a) The permittee shall pay an annual Title V emission fee based upon the responsible official's choice of actual emissions, allowable emissions, or a combination of actual and allowable emissions; and on the responsible official's choice of annual accounting period. An emission cap of 4,000 tons per year per regulated pollutant per major source SIC Code shall apply to actual or allowable based emission fees. A Title V annual emission fee will not be charged for emissions in excess of the cap. Title V annual emission fees will not be charged for carbon monoxide or for greenhouse gas pollutants solely because they are greenhouse gases.
- (b) Title V sources shall pay allowable based emission fees until the beginning of the next annual accounting period following receipt of their initial Title V operating permit. At that time, the permittee shall begin paying their Title V fee based upon their choice of actual or allowable based fees, or mixed actual and allowable based fees. Once permitted, the Responsible Official may revise their existing fee choice by submitting a written request to the Division no later than December 31 of the annual accounting period for which the fee is due.
- (c) When paying annual Title V emission fees, the permittee shall comply with all provisions of 1200-03-26-.02 and 1200-03-09-.02(11) applicable to such fees.
- (d) Where more than one allowable emission limit is applicable to a regulated pollutant, the allowable emissions for the regulated pollutants shall not be double counted. Major sources subject to the provisions of paragraph 1200-03-26-.02(9) shall apportion their emissions as follows to ensure that their fees are not double counted.
1. Sources that are subject to federally promulgated hazardous air pollutant under 40 CFR 60, 61, or 63 will place such regulated emissions in the regulated hazardous air pollutant (HAP) category.
 2. A category of miscellaneous HAPs shall be used for hazardous air pollutants listed at part 1200-03-26-.02(2)(i)12 that are not subject to federally promulgated hazardous air pollutant standards under 40 CFR 60, 61, or 63.
 3. HAPs that are also in the family of volatile organic compounds, particulate matter, or PM₁₀ shall not be placed in either the regulated HAP category or miscellaneous HAP category.
 4. Sources that are subject to a provision of chapter 1200-03-16 New Source Performance Standards (NSPS) or chapter 0400-30-39 Standards of Performance for New Stationary Sources for pollutants that are neither particulate matter, PM₁₀, sulfur dioxide (SO₂), volatile organic compounds (VOC), nitrogen oxides (NO_x), or hazardous air pollutants (HAPs) will place such regulated emissions in an NSPS pollutant category.
 5. The regulated HAP category, the miscellaneous HAP category, and the NSPS pollutant category are each subject to the 4,000 ton cap provisions of subparagraph 1200-03-26-.02(2)(i).
 6. Major sources that wish to pay annual emission fees for PM₁₀ on an allowable emission basis may do so if they have a specific PM₁₀ allowable emission standard. If a major source has a total particulate emission standard, but wishes to pay annual emission fees on an actual PM₁₀ emission basis, it may do so if the PM₁₀ actual emission levels are proven to the satisfaction of the Technical Secretary. The method to demonstrate the actual PM₁₀ emission levels must be made as part of the source's major source operating permit in advance in order to exercise this option. The PM₁₀ emissions reported under these options shall not be subject to fees under the family of particulate emissions. The 4,000 ton cap provisions of subparagraph 1200-03-26-.02(2)(i) shall also apply to PM₁₀ emissions.

TAPCR 1200-03-26-.02 and 1200-03-09-.02(11)(e)1(vii)

- A9. Permit revision not required.** A permit revision will not be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or process for changes that are provided for in the permit.

TAPCR 1200-03-09-.02(11)(e)1(viii)

- A10. Inspection and entry.** Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Technical Secretary or an authorized representative to perform the following for the purposes of determining compliance with the permit applicable requirements:

- (a) Enter upon, at reasonable times, 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 the permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- (d) As authorized by the Clean Air Act and Chapter 1200-03-10 of TAPCR, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
- (e) "Reasonable times" shall be considered to be customary business hours unless reasonable cause exists to suspect noncompliance with the Act, Division 1200-03 or any permit issued pursuant thereto and the Technical Secretary specifically authorizes an inspector to inspect a facility at any other time.

TAPCR 1200-03-09-.02(11)(e)3.(ii)

- A11. Permit shield.**

- (a) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date of permit issuance, provided that:
 - 1. Such applicable requirements are included and are specifically identified in the permit; or
 - 2. The Technical Secretary, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
- (b) Nothing in this permit shall alter or affect the following:
 - 1. The provisions of section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section. Similarly, the provisions of T.C.A. §68-201-109 (emergency orders) including the authority of the Governor under the section;
 - 2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - 3. The applicable requirements of the acid rain program, consistent with section 408(a) of the Federal Act; or
 - 4. The ability of EPA to obtain information from a source pursuant to section 114 of the Federal Act.
- (c) Permit shield is granted to the permittee.

TAPCR 1200-03-09-.02(11)(e)6

A12. Permit renewal and expiration.

- (a) An application for permit renewal must be submitted at least 180 days, but no more than 270 days prior to the expiration of this permit. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted.
- (b) If the permittee submits a timely and complete application for permit renewal the source will not be considered to be operating without a permit until the Technical Secretary takes final action on the permit application, except as otherwise noted in paragraph 1200-03-09-.02(11).
- (c) This permit, its shield provided in Condition A11, and its conditions will be extended and effective after its expiration date provided that the source has submitted a timely, complete renewal application to the Technical Secretary.

TAPCR 1200-03-09-.02(11)(f)2 and 3, 1200-03-09-.02(11)(d)1(i)(III), and 1200-03-09-.02(11)(a)2

A13. Reopening for cause.

- (a) A permit shall be reopened and revised prior to the expiration of the permit under any of the circumstances listed below:
 - 1. Additional applicable requirements under the Federal Act become applicable to the sources contained in this permit provided the permit has a remaining term of 3 or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the permit expiration date of this permit, unless the original has been extended pursuant to 1200-03-09-.02(11)(a)2.
 - 2. Additional requirements become applicable to an affected source under the acid rain program.
 - 3. The Technical Secretary or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - 4. The Technical Secretary or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- (b) Proceedings to reopen and issue a permit shall follow the same proceedings as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists, and not the entire permit. Such reopening shall be made as expeditiously as practicable.
- (c) Reopenings for cause shall not be initiated before a notice of such intent is provided to the permittee by the Technical Secretary at least 30 days in advance of the date that the permit is to be reopened except that the Technical Secretary may provide a shorter time period in the case of an emergency. An emergency shall be established by the criteria of T.C.A. 68-201-109 or other compelling reasons that public welfare is being adversely affected by the operation of a source that is in compliance with its permit requirements.
- (d) If the Administrator finds that cause exists to terminate, modify, or revoke and reissue a permit as identified in A13, he is required under federal rules to notify the Technical Secretary and the permittee of such findings in writing. Upon receipt of such notification, the Technical Secretary shall investigate the matter in order to determine if he agrees or disagrees with the Administrator's findings. If he agrees with the Administrator's findings, the Technical Secretary shall conduct the reopening in the following manner:
 - 1. The Technical Secretary shall, within 90 days after receipt of such notification, forward to EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate. If the Administrator grants additional time to secure permit applications or additional information from the permittee, the Technical Secretary shall have the additional time period added to the standard 90 day time period.
 - 2. EPA will evaluate the Technical Secretary's proposed revisions and respond as to their evaluation.
 - 3. If EPA agrees with the proposed revisions, the Technical Secretary shall proceed with the reopening in the same manner prescribed under Condition A13 (b) and Condition A13 (c).

4. If the Technical Secretary disagrees with either the findings or the Administrator that a permit should be reopened or an objection of the Administrator to a proposed revision to a permit submitted pursuant to Condition A13(d), he shall bring the matter to the Board at its next regularly scheduled meeting for instructions as to how he should proceed. The permittee shall be required to file a written brief expressing their position relative to the Administrator's objection and have a responsible official present at the meeting to answer questions for the Board. If the Board agrees that EPA is wrong in their demand for a permit revision, they shall instruct the Technical Secretary to conform to EPA's demand, but to issue the permit under protest preserving all rights available for litigation against EPA.

TAPCR. 1200-03-09-.02(11)(f)6 and 7.

A14. Permit transference. An administrative permit amendment allows for a change of ownership or operational control of a source where the Technical Secretary determines that no other change in the permit is necessary, provided that the following requirements are met:

- (a) Transfer of ownership permit application is filed consistent with the provisions of 1200-03-09-.03(6), and
- (b) written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Technical Secretary.

TAPCR 1200-03-09-.02(11)(f)4(i)(IV) and 1200-03-09-.03(6)

A15. Air pollution alert. When the Technical Secretary has declared that an air pollution alert, an air pollution warning, or an air pollution emergency exists, the permittee must follow the requirements for that episode level as outlined in TAPCR 1200-03-09-.03(1) and TAPCR 1200-03-15-.03.

A16. Construction permit required. Except as exempted in TAPCR 1200-03-09-.04, or excluded in subparagraph TAPCR 1200-03-02-.01(1)(aa) or subparagraph TAPCR 1200-03-02-.01(1)(cc), this facility shall not begin the construction of a new air contaminant source or the modification of an air contaminant source which may result in the discharge of air contaminants without first having applied for and received from the Technical Secretary a construction permit for the construction or modification of such air contaminant source.

TAPCR 1200-03-09-.01(1)(a)

A17. Notification of changes. The permittee shall notify the Technical Secretary 30 days prior to commencement of any of the following changes to an air contaminant source which would not be a modification requiring a construction permit.

- (a) change in air pollution control equipment
- (b) change in stack height or diameter
- (c) change in exit velocity of more than 25 percent or exit temperature of more than 15 percent based on absolute temperature.

TAPCR 1200-03-09-.02(7)

A18. Schedule of compliance. The permittee will comply with any applicable requirement that becomes effective during the permit term on a timely basis. If the permittee is not in compliance the permittee must submit a schedule for coming into compliance which must include a schedule of remedial measure(s), including an enforceable set of deadlines for specific actions.

TAPCR 1200-03-09-.02(11)(d)3 and 40 CFR Part 70.5(c)

A19. Title VI.

- (a) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR, Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to Section 82.156.
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to Section 82.158.
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to Section 82.161.
- (b) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone depleting substance refrigerant in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR, Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- (c) The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR, Part 82, Subpart G, Significant New Alternatives Policy Program.

- A20. 112 (r).** Sources which are subject to the provisions of Section 112(r) of the federal Clean Air Act or any federal regulations promulgated thereunder, shall annually certify in writing to the Technical Secretary that they are properly following their accidental release plan. The annual certification is due in the office of the Technical Secretary no later than January 31 of each year. Said certification will be for the preceding calendar year.

TAPCR 1200-03-32-.03(3)

SECTION B

**GENERAL CONDITIONS for MONITORING,
REPORTING, and ENFORCEMENT**

B1. Recordkeeping. Monitoring and related record keeping shall be performed in accordance with the requirements specified in the permit conditions for each individual permit unit. In no case shall reports of any required monitoring and record keeping be submitted less frequently than every six months.

(a) Where applicable, records of required monitoring information include the following:

1. The date, place as defined in the permit, and time of sampling or measurements;
2. The date(s) analyses were performed;
3. The company or entity that performed the analysis;
4. The analytical techniques or methods used;
5. The results of such analyses; and
6. The operating conditions as existing at the time of sampling or measurement.

(b) Digital data accumulation which utilizes valid data compression techniques shall be acceptable for compliance determination as long as such compression does not violate an applicable requirement and its use has been approved in advance by the Technical Secretary.

TAPCR 1200-03-09-.02(11)(e)1(iii)

B2. Retention of monitoring data. The permittee shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

TAPCR 1200-03-09-.02(11)(e)1(iii)(II)II

B3. Reporting. Reports of any required monitoring and record keeping shall be submitted to the Technical Secretary in accordance with the frequencies specified in the permit conditions for each individual permit unit. Reports shall be submitted within 60 days of the close of the reporting period unless otherwise noted. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official. Reports required under "State only requirements" are not required to be certified by a responsible official.

TAPCR 1200-03-09-.02(11)(e)1(iii)

B4. Certification. Except for reports required under "State Only" requirements, any application form, report or compliance certification submitted pursuant to the requirements of this permit shall contain certification by a responsible official of truth, accuracy and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

TAPCR 1200-03-09-.02(11)(d)4

B5. Annual compliance certification. The permittee shall submit annually compliance certifications with terms and conditions contained in Sections A, B, D and E of this permit, including emission limitations, standards, or work practices. This compliance certification shall include all of the following (provided that the identification of applicable information may cross-reference the permit or previous reports, as applicable):

(a) The identification of each term or condition of the permit that is the basis of the certification;

(b) The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period; such methods and other means shall include, at a

minimum, the methods and means required by this permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Federal Act, which prohibits knowingly making a false certification or omitting material information;

- (c) The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in B5(b) above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion* or exceedance** as defined below occurred; and
- (d) Such other facts as the Technical Secretary may require to determine the compliance status of the source.

* “Excursion” shall mean a departure from an indicator range established for monitoring under this paragraph, consistent with any averaging period specified for averaging the results of the monitoring.

** “Exceedance” shall mean a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of a percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring.

40 CFR Part 70.6(c)(5)(iii) as amended in the Federal Register Vol. 79, No.144, July 28, 2014, pages 43661 through 43667

B6. Submission of compliance certification. The compliance certification shall be submitted to:

The Tennessee Department of Environment and Conservation Environmental Field Office specified in Section E of this permit	and	Air Enforcement Branch U. S. EPA Region IV 61 Forsyth Street, SW Atlanta, Georgia 30303
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TAPCR 1200-03-09-.02(11)(e)3(v)(IV)

B7. Emergency provisions. An emergency constitutes an affirmative defense to an enforcement action brought against this source for noncompliance with a technology based emission limitation 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.

- (a) The affirmative defense of the emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
 1. An emergency occurred and that the permittee can identify the probable cause(s) of the emergency. "Probable" must be supported by a credible investigation into the incident that seeks to identify the causes and results in an explanation supported by generally accepted engineering or scientific principles.
 2. The permitted source was at the time being properly operated. In determining whether or not a source was being properly operated, the Technical Secretary shall examine the source's written standard operating procedures which were in effect at the time of the noncompliance and any other code as detailed below that would be relevant to preventing the noncompliance. Adherence to the source's standard operating procedures will be the test of adequate preventative maintenance, careless operation, improper operation or operator error to the extent that such adherence would prevent noncompliance. The source's failure to follow recognized standards of practice to the extent that adherence to such a standard would have prevented noncompliance will disqualify the source from any claim of an emergency and an affirmative defense.
 3. 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.
 4. The permittee submitted notice of the emergency to the Technical Secretary according to the notification criteria for malfunctions in rule 1200-03-20-.03. For the purposes of this condition, "emergency" shall be

substituted for "malfunction(s)" in rule 1200-03-20-.03 to determine the relevant notification threshold. The notice shall include a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

- (b) In any enforcement proceeding the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (c) The provisions of this condition are in addition to any emergency, malfunction or upset requirement contained in Division 1200-03 or other applicable requirement.

TAPCR 1200-03-09-.02(11)(e)7

B8. Excess emissions reporting.

- (a) The permittee shall promptly notify the Technical Secretary when any emission source, air pollution control equipment, or related facility breaks down in such a manner to cause the emission of air contaminants in excess of the applicable emission standards contained in Division 1200-03 or any permit issued thereto, or of sufficient duration to cause damage to property or public health. The permittee must provide the Technical Secretary with a statement giving all pertinent facts, including the estimated duration of the breakdown. Violations of the visible emission standard which occur for less than 20 minutes in one day (midnight to midnight) need not be reported. Prompt notification will be within 24 hours of the malfunction and shall be provided by telephone to the Division's Nashville office. The Technical Secretary shall be notified when the condition causing the failure or breakdown has been corrected. In attainment and unclassified areas if emissions other than from sources designated as significantly impacting on a nonattainment area in excess of the standards will not and do not occur over more than a 24-hour period (or will not recur over more than a 24-hour period) and no damage to property and or public health is anticipated, notification is not required.
- (b) Any malfunction that creates an imminent hazard to health must be reported by telephone immediately to the Division's Nashville office at (615) 532-0554 and to the State Civil Defense.
- (c) A log of all malfunctions, startups, and shutdowns resulting in emissions in excess of the standards in Division 1200-03 or any permit issued thereto must be kept at the plant. All information shall be entered in the log no later than 24 hours after the startup or shutdown is complete, or the malfunction has ceased or has been corrected. Any later discovered corrections can be added in the log as footnotes with the reason given for the change. This log must record at least the following:
 1. Stack or emission point involved
 2. Time malfunction, startup, or shutdown began and/or when first noticed
 3. Type of malfunction and/or reason for shutdown
 4. Time startup or shutdown was complete or time the air contaminant source returned to normal operation
 5. The company employee making entry on the log must sign, date, and indicate the time of each log entry

The information under items 1 and 2 must be entered into the log by the end of the shift during which the malfunction or startup began. For any source utilizing continuous emission(s) monitoring, continuous emission(s) monitoring collection satisfies the above log keeping requirement.

TAPCR 1200-03-20-.03 and .04

- B9. Malfunctions, startups and shutdowns - reasonable measures required.** The permittee must take all reasonable measures to keep emissions to a minimum during startups, shutdowns, and malfunctions. These measures may include installation and use of alternate control systems, changes in operating methods or procedures, cessation of operation until the process equipment and/or air pollution control equipment is repaired, maintaining sufficient spare parts, use of overtime labor, use of outside consultants and contractors, and other appropriate means. Failures that are caused by poor maintenance, careless operation or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions. This provision does not apply to standards found in 40 CFR, Parts 60(Standards of performance for new stationary sources), 61(National emission standards for hazardous air pollutants) and 63(National emission standards for hazardous air pollutants for source categories).

TAPCR 1200-03-20-.02

B10. Reserved.

B11. **Report required upon the issuance of a notice of violation for excess emissions.** The permittee must submit within 20 days after receipt of the notice of violation, the data required below. If this data has previously been available to the Technical Secretary prior to the issuance of the notice of violation no further action is required of the violating source. However, if the source desires to submit additional information, then this must be submitted within the same 20-day time period. The minimum data requirements are:

- (a) The identity of the stack and/or other emission point where the excess emission(s) occurred;
- (b) The magnitude of the excess emissions expressed in pounds per hour and the units of the applicable emission limitation and the operating data and calculations used in determining the magnitude of the excess emissions;
- (c) The time and duration of the emissions;
- (d) The nature and cause of such emissions;
- (e) For malfunctions, the steps taken to correct the situation and the action taken or planned to prevent the recurrence of such malfunctions;
- (f) The steps taken to limit the excess emissions during the occurrence reported, and
- (g) If applicable, documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good operating practices for minimizing emissions.

Failure to submit the required report within the twenty (20) day period specified shall preclude the admissibility of the data for determination of potential enforcement action.

TAPCR 1200-03-20-.06(2), (3) and (4)

SECTION C

PERMIT CHANGES

- C1. Operational flexibility changes.** The source may make operational flexibility changes that are not addressed or prohibited by the permit without a permit revision subject to the following requirements:
- (a) The change cannot be subject to a requirement of Title IV of the Federal Act or Chapter 1200-03-30.
 - (b) The change cannot be a modification under any provision of Title I of the federal Act or Division 1200-03.
 - (c) Each change shall meet all applicable requirements and shall not violate any existing permit term or condition.
 - (d) The source must provide contemporaneous written notice to the Technical Secretary and EPA of each such change, except for changes that are below the threshold of levels that are specified in Rule 1200-03-09-.04.
 - (e) Each change shall be described in the notice including the date, any change in emissions, pollutants emitted, and any applicable requirements that would apply as a result of the change.
 - (f) The change shall not qualify for a permit shield under the provisions of part 1200-03-09-.02(11)(e)6.
 - (g) The permittee shall keep a record describing the changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes. The records shall be retained until the changes are incorporated into subsequently issued permits.

TAPCR 1200-03-09-.02(11)(a)4 (ii)

- C2. Section 502(b)(10) changes.**
- (a) The permittee can make certain changes without requiring a permit revision, if the changes are not modifications under Title I of the Federal Act or Division 1200-03 and the changes do not exceed the emissions allowable under the permit. The permittee must, however, provide the Administrator and Technical Secretary with written notification within a minimum of 7 days in advance of the proposed changes. The Technical Secretary may waive the 7 day advance notice in instances where the source demonstrates in writing that an emergency necessitates the change. Emergency shall be demonstrated by the criteria of TAPCR 1200-03-09-.02(11)(e)7 and in no way shall it include changes solely to take advantages of an unforeseen business opportunity. The Technical Secretary and EPA shall attach each such notice to their copy of the relevant permit.
 - (b) The written notification must be signed by a facility Title V responsible official and include the following:
 - 1. a brief description of the change within the permitted facility;
 - 2. the date on which the change will occur;
 - 3. a declaration and quantification of any change in emissions;
 - 4. a declaration of any permit term or condition that is no longer applicable as a result of the change; and
 - 5. a declaration that the requested change is not a Title I modification and will not exceed allowable emissions under the permit.
 - (c) The permit shield provisions of TAPCR 1200-03-09-.02(11)(e)6 shall not apply to Section 502(b)(10) changes.

TAPCR 1200-03-09-.02(11)(a)4 (i)

C3. Administrative amendment.

- (a) Administrative permit amendments to this permit shall be in accordance with 1200-03-09-.02(11)(f)4. The source may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request.
- (b) The permit shield shall be extended as part of an administrative permit amendment revision consistent with the provisions of TAPCR 1200-03-09-.02(11)(e)6 for such revisions made pursuant to item (c) of this condition which meet the relevant requirements of TAPCR 1200-03-09-.02(11)(e), TAPCR 1200-03-09-.02(11)(f) and TAPCR 1200-03-09-.02(11)(g) for significant permit modifications.
- (c) Proceedings to review and grant administrative permit amendments shall be limited to only those parts of the permit for which cause to amend exists, and not the entire permit.

TAPCR 1200-03-09-.02(11)(f)4

C4. Minor permit modifications.

- (a) The permittee may submit an application for a minor permit modification in accordance with TAPCR 1200-03-09-.02(11)(f)5(ii).
- (b) The permittee may make the change proposed in its minor permit modification immediately after an application is filed with the Technical Secretary.
- (c) Proceedings to review and modify permits shall be limited to only those parts of the permit for which cause to modify exists, and not the entire permit.
- (d) Minor permit modifications do not qualify for a permit shield.

TAPCR 1200-03-09-.02(11)(f)5(ii)

C5. Significant permit modifications.

- (a) The permittee may submit an application for a significant modification in accordance with TAPCR 1200-03-09-.02(11)(f)5(iv).
- (b) Proceedings to review and modify permits shall be limited to only those parts of the permit for which cause to modify exists, and not the entire permit.

TAPCR 1200-03-09-.02(11)(f)5(iv)

C6. New construction or modifications.

Future construction at this facility that is subject to the provisions of TAPCR 1200-03-09-.01 shall be governed by the following:

- (a) The permittee shall designate in their construction permit application the route that they desire to follow for the purposes of incorporating the newly constructed or modified sources into their existing operating permit. The Technical Secretary shall use that information to prepare the operating permit application submittal deadlines in their construction permit.
- (b) Sources desiring the permit shield shall choose the administrative amendment route of TAPCR 1200-03-09-.02(11)(f)4 or the significant modification route of TAPCR 1200-03-09-.02(11)(f)5(iv).
- (c) Sources desiring expediency instead of the permit shield shall choose the minor permit modification procedure route of TAPCR 1200-03-09-.02(11)(f)5(ii) or group processing of minor modifications under the provisions of TAPCR 1200-03-09-.02(11)(f)5(iii) as applicable to the magnitude of their construction. TAPCR 1200-03-09-.02(11)(d) 1(i)(V)

SECTION D

GENERAL APPLICABLE REQUIREMENTS

- D1. Visible emissions.** With the exception of air emission sources exempt from the requirements of TAPCR Chapter 1200-03-05 and air emission sources for which a different opacity standard is specifically provided elsewhere in this permit, the permittee shall not cause, suffer, allow or permit discharge of a visible emission from any air contaminant source with an opacity in excess of 20% for an aggregate of more than five minutes in any one hour or more than 20 minutes in any 24 hour period; provided, however, that for fuel burning installations with fuel burning equipment of input capacity greater than 600 million Btu per hour, the permittee shall not cause, suffer, allow, or permit discharge of a visible emission from any fuel burning installation with an opacity in excess of 20% (6-minute average) except for one six minute period per one hour of not more than 40% opacity. Sources constructed or modified after July 7, 1992 shall utilize six-minute averaging.

Consistent with the requirements of TAPCR Chapter 1200-03-20, due allowance may be made for visible emissions in excess of that permitted under TAPCR 1200-03-05 which are necessary or unavoidable due to routine startup and shutdown conditions. The facility shall maintain a continuous, current log of all excess visible emissions showing the time at which such conditions began and ended and that such record shall be available to the Technical Secretary or an authorized representative upon request.

TAPCR 1200-03-05-.01(1), TAPCR 1200-03-05-.03(6) and TAPCR 1200-03-05-.02(1)

- D2. General provisions and applicability for non-process gaseous emissions.** Any person constructing or otherwise establishing a non-portable air contaminant source emitting gaseous air contaminants after April 3, 1972, or relocating an air contaminant source more than 1.0 km from the previous position after November 6, 1988, shall install and utilize the best equipment and technology currently available for controlling such gaseous emissions.

TAPCR 1200-03-06-.03(2)

- D3. Non-process emission standards.** The permittee shall not cause, suffer, allow, or permit particulate emissions from non-process sources in excess of the standards in TAPCR 1200-03-06.

- D4. General provisions and applicability for process gaseous emissions.** Any person constructing or otherwise establishing an air contaminant source emitting gaseous air contaminants after April 3, 1972, or relocating an air contaminant source more than 1.0 km from the previous position after November 6, 1988, shall install and utilize equipment and technology which is deemed reasonable and proper by the Technical Secretary.

TAPCR 1200-03-07-.07(2)

- D5. Particulate emissions from process emission sources.** The permittee shall not cause, suffer, allow, or permit particulate emissions from process sources in excess of the standards in TAPCR 1200-03-07.

- D6. Sulfur dioxide emission standards.** The permittee shall not cause, suffer, allow, or permit Sulfur dioxide emissions from process and non-process sources in excess of the standards in TAPCR 1200-03-14. Regardless of the specific emission standard, new process sources shall utilize the best available control technology as deemed appropriate by the Technical Secretary of the Tennessee Air Pollution Control Board.

- D7. Fugitive Dust.**

(a) The permittee shall not cause, suffer, allow, or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, but not be limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in demolition of existing buildings or structures, construction operations, grading of roads, or the clearing of land;

2. Application of asphalt, water, or suitable chemicals on dirt roads, material stock piles, and other surfaces which can create airborne dusts;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods shall be employed during sandblasting or other similar operations.

(b) The permittee shall not cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five minutes per hour or 20 minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in Chapter 1200-03-20.

TAPCR 1200-03-08

D8. Open burning. The permittee shall comply with TAPCR 1200-03-04 for all open burning activities at the facility.

TAPCR 1200-03-04

D9. Asbestos. Where applicable, the permittee shall comply with the requirements of TAPCR 1200-03-11-.02(2)(d) when conducting any renovation or demolition activities at the facility.

TAPCR 1200-03-11-.02(2)(d) and 40 CFR, Part 61

D10. Annual certification of compliance. The generally applicable requirements set forth in Section D of this permit are intended to apply to activities and sources that are not subject to source-specific applicable requirements contained in State of Tennessee and U.S. EPA regulations. By annual certification of compliance, the permittee shall be considered to meet the monitoring and related record keeping and reporting requirements of TAPCR 1200-03-09-.02(11)(e)1.(iii) and 1200-03-10-.04(2)(b)1 and compliance requirements of TAPCR 1200-03-09-.02(11)(e)3.(i). The permittee shall submit compliance certification for these conditions annually.

D11. Emission Standards for Hazardous Air Pollutants. When applicable, the permittee shall comply with the TAPCR 0400-30-38 for all emission sources subject to a requirement contained therein.

TAPCR 0400-30-38

D12. Standards of Performance for New Stationary Sources. When applicable, the permittee shall comply with the TAPCR 0400-30-39 for all emission sources subject to a requirement contained therein.

TAPCR 0400-30-39

D13. Gasoline Dispensing Facilities. When applicable, the permittee shall comply with the TAPCR 1200-03-18-.24 for all emission sources subject to a requirement contained therein.

D14. Internal Combustion Engines.

- (a) All stationary reciprocating internal combustion engines, including engines deemed insignificant activities and insignificant emission units, shall comply with the applicable provisions of TAPCR 0400-30-38-.01.
- (b) All stationary compression ignition internal combustion engines, including engines deemed insignificant activities and insignificant emission units, shall comply with the applicable provisions of TAPCR 0400-30-39-.01.
- (c) All stationary spark ignition internal combustion engines, including engines deemed insignificant activities and insignificant emission units, shall comply with the applicable provisions of TAPCR 0400-30-39-.02.

TAPCR 0400-30-38 and 39

SECTION E

SOURCE SPECIFIC EMISSION STANDARDS, OPERATING LIMITATIONS, and MONITORING, RECORDKEEPING and REPORTING REQUIREMENTS

01-0009	Facility Description:	TVA Bull Run is a steam electric generating facility with one main steam producing boiler, auxiliary boilers, coal handling operations, and ash handling operations.
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Conditions E1 and E2 apply to all sources in Section E of this permit unless otherwise noted.

E1. Fee payment

FEE EMISSIONS SUMMARY TABLE FOR MAJOR SOURCE 01-0009			
REGULATED POLLUTANTS	ALLOWABLE EMISSIONS (tons per AAP)	ACTUAL EMISSIONS (tons per AAP)	COMMENTS
PARTICULATE MATTER (PM)	1,788	AEAR	Includes all fee emissions.
PM ₁₀	N/A	AEAR	Fee emissions are included in PM above.
SO ₂	12,479	AEAR	Includes all fee emissions. Fee emissions are based on MATS standard.
VOC	94.73	AEAR	Does not include VOC HAP emissions.
NO _x	3,970	AEAR	Includes all fee emissions.
CATEGORY OF MISCELLANEOUS HAZARDOUS AIR POLLUTANTS (HAPs WITHOUT A STANDARD)*			
VOC FAMILY GROUP	4.45	AEAR	Fee emissions are not included in VOC above.
NON-VOC GASEOUS GROUP	25.9	AEAR	HCl emissions from source 01. MATS standard does not apply because the facility complies with the MATS SO ₂ standard.
PM FAMILY GROUP	N/A	N/A	
CATEGORY OF SPECIFIC HAZARDOUS AIR POLLUTANTS (HAPs WITH A STANDARD)**			
VOC FAMILY GROUP	N/A	N/A	40 CFR 63 Subparts DDDDD and UUUUU.
NON-VOC GASEOUS GROUP			
Hydrogen Chloride	1.29	AEAR	
Mercury	0.05	AEAR	
PM FAMILY GROUP	N/A	N/A	
CATEGORY OF NSPS POLLUTANTS NOT LISTED ABOVE***			
EACH NSPS POLLUTANT NOT LISTED ABOVE	N/A	N/A	

NOTES

AAP The Annual Accounting Period (AAP) is a 12 consecutive month period that either (a) begins each July 1st and ends June 30th of the following year when fees are paid on a fiscal year basis, or (b) begins January 1st and ends December 31st of the same year when paying on a calendar year basis. The Annual Accounting Period at the time of permit renewal issuance began **January 1, 2020** and ends **December 31, 2020**. The next Annual Accounting Period begins **January 1, 2021** and ends **December 31, 2021** unless a request to change the annual accounting period is submitted by the responsible official as required by subparagraph 1200-03-26-.02(9)(b) of the TAPCR and approved by the Technical Secretary. If the permittee wishes to revise their annual accounting period or their annual emission fee basis as allowed by subparagraph 1200-03-26-.02(9)(b) of the TAPCR, the responsible official must submit the request to the Division in writing on or before December 31 of the annual accounting period for which the fee is due. If a change in fee basis from allowable emissions to actual emissions for any pollutant is requested, the request from the responsible official must include the methods that will be used to determine actual emissions. Changes in fee bases must be made using the Title V Fee Selection form, form number APC 36 (CN-1583), included as Attachment 6 to this permit and available on the Division of Air Pollution Control's website.

N/A N/A indicates that no emissions are specified for fee computation.

AEAR If the permittee is paying annual emission fees on an actual emissions basis, **AEAR** indicates that an **Actual Emissions Analysis** is **Required** to determine the actual emissions of:

- (1) **each regulated pollutant** (Particulate matter, SO₂, VOC, NO_x and so forth. See TAPCR 1200-03-26-.02(2)(i) for the definition of a regulated pollutant.),
- (2) **each pollutant group** (VOC Family, Non-VOC Gaseous, and Particulate Family),
- (3) **the Miscellaneous HAP Category,**
- (4) **the Specific HAP Category, and**
- (5) **the NSPS Category**

under consideration during the **Annual Accounting Period**.

* **Category Of Miscellaneous HAP (HAP Without A Standard):** This category is made-up of hazardous air pollutants that do not have a federal or state standard. Each HAP is classified into one of three groups, the **VOC Family** group, the **Non-VOC Gaseous** group, or the **Particulate (PM) Family** group. **For fee computation,** the **Miscellaneous HAP Category** is subject to the 4,000 ton cap provisions of subparagraph 1200-03-26-.02(2)(i) of the TAPCR.

** **Category Of Specific HAP (HAP With A Standard):** This category is made-up of hazardous air pollutants (HAP) that are subject to Federally promulgated Hazardous Air Pollutant Standards that can be imposed under Chapter 1200-03-11 or Chapter 1200-03-31. Each individual hazardous air pollutant is classified into one of three groups, the **VOC Family** group, the **Non-VOC Gaseous** group, or the **Particulate (PM) Family** group. **For fee computation,** each individual hazardous air pollutant of the **Specific HAP Category** is subject to the 4,000 ton cap provisions of subparagraph 1200-03-26-.02(2)(i) of the TAPCR.

*** **Category Of NSPS Pollutants Not Listed Above:** This category is made-up of each New Source Performance Standard (NSPS) pollutant whose emissions are not included in the **PM, SO₂, VOC** or **NO_x** emissions from each source in this permit. **For fee computation,** each **NSPS pollutant not listed above** is subject to the 4,000 ton cap provisions of subparagraph 1200-03-26-.02(2)(i) of the TAPCR.

END NOTES

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- The permittee shall:**
- (1) Pay Title V **annual emission fees**, on the emissions and year bases requested by the responsible official and approved by the Technical Secretary, for each annual accounting period (AAP) by the payment deadline(s) established in TAPCR 1200-03-26-.02(9)(g). Fees may be paid on an **actual, allowable, or mixed** emissions basis; and on either a **state fiscal year** or a **calendar year**, provided the requirements of TAPCR 1200-03-26-.02(9)(b) are met. If any part of any fee imposed under TAPCR 1200-03-26-.02 is not paid within 15 days of the due date, penalties shall at once accrue as specified in TAPCR 1200-03-26-.02(8).
 - (2) Sources paying annual emissions fees on an allowable emissions basis: pay annual allowable based emission fees for each annual accounting period no later than April 1 of each year pursuant to TAPCR 1200-03-26-.02(9)(d).
 - (3) Sources paying annual emissions fees on an actual emissions basis: prepare an **actual emissions analysis** for each AAP and pay **actual based emission fees** pursuant to TAPCR 1200-03-26-.02(9)(d). The **actual emissions analysis** shall include:
 - (a) the completed **Fee Emissions Summary Table,**
 - (b) each **actual emissions analysis** required, and
 - (c) the actual emission records for each pollutant and each source as required for actual emission fee determination, or a summary of the actual emission records required for fee determination, as specified by the Technical Secretary or the Technical Secretary's representative. The summary must include sufficient information for the Technical Secretary to determine the accuracy of the calculations. These calculations must be based on the annual fee basis approved by the Technical Secretary (a state fiscal year

[July 1 through June 30] or a calendar year [January 1 through December 31]). These records shall be used to complete the **actual emissions analyses** required by the above **Fee Emissions Summary Table**.

- (4) Sources paying annual emissions fees on a mixed emissions basis: for all pollutants and all sources for which the permittee has chosen an actual emissions basis, prepare an **actual emissions analysis** for each AAP and pay **actual based emission fees** pursuant to TAPCR 1200-03-26-.02(9)(d). The **actual emissions analysis** shall include:
 - (a) the completed **Fee Emissions Summary Table**,
 - (b) each **actual emissions analysis** required, and
 - (c) the actual emission records for each pollutant and each source as required for actual emission fee determination, or a summary of the actual emission records required for fee determination, as specified by the Technical Secretary or the Technical Secretary’s representative. The summary must include sufficient information for the Technical Secretary to determine the accuracy of the calculations. These calculations must be based on the fee bases approved by the Technical Secretary (payment on an actual or mixed emissions basis) and payment on a state fiscal year (July 1 through June 30) or a calendar year (January 1 through December 31). These records shall be used to complete the **actual emissions analysis**.

For all pollutants and all sources for which the permittee has chosen an allowable emissions basis, pay allowable based emission fees pursuant to TAPCR 1200-03-26-.02(9)(d).

- (5) When paying on an actual or mixed emissions basis, submit the **actual emissions analyses** at the time the fees are paid in full.

The annual emission fee due dates are specified in TAPCR 1200-03-26-.02(9)(g) and are dependent on the Responsible Official’s choice of fee bases as described above. If any part of any fee imposed under TAPCR 1200-03-26-.02 is not paid within 15 days of the due date, penalties shall at once accrue as specified in TAPCR 1200-03-26-.02(8). Emissions for regulated pollutants shall not be double counted as specified in Condition A8(d) of this permit.

Payment of the fee due and the actual emissions analysis (if required) shall be submitted to The Technical Secretary at the following address:

Payment of Fee to: The Tennessee Department of Environment and Conservation Division of Fiscal Services Consolidated Fee Section – APC William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 10th Floor Nashville, Tennessee 37243	and	Actual Emissions Analyses to: The Tennessee Department of Environment and Conservation Division of Air Pollution Control Emission Inventory Program William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 15th Floor Nashville, Tennessee 37243 or An electronic copy (PDF) of actual emissions analysis can also be submitted to: apc.inventory@tn.gov
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E2. General Facility Requirements

E2-1. Reporting requirements.

- (a) **Semiannual reports.** Semiannual reports shall cover the six-month periods from **January 1** through **June 30** of each calendar year and from **July 1** through **December 31** of each calendar year and shall be submitted within 60 days after the end of each six-month period. The first semiannual report following issuance of this permit shall cover the following permits and reporting periods:

Permit Number	Reporting Period	Information Required
567519	***** through *****	See Condition E2-1(b) of permit 567519

Permit Number	Reporting Period	Information Required
578012	***** through *****	See below

These semiannual reports shall include:

- (1) Any monitoring and recordkeeping required by conditions ***E3-10, E3-13, E3-16, E5-2, E6-1, E7-1, E7-2, E8-2, E8-3, E9-1, E9-2, E10-3, and E10-6*** of this permit. A summary report of this data is acceptable provided there is sufficient information to enable the Technical Secretary to evaluate compliance.
- (2) The visible emission evaluation readings from condition ***E4-3, E5-3, E5-4, E5-5, E6-2, E7-3, E7-4, E7-5, E8-4, E8-5, E8-6, E9-3, E9-4, and E9-5*** of this permit if required. A summary report of this data is acceptable provided there is sufficient information to enable the Technical Secretary to evaluate compliance.
- (3) Identification of all instances of deviations from **ALL PERMIT REQUIREMENTS**.

These reports must be certified by a responsible official consistent with condition B4 of this permit and shall be submitted to The Technical Secretary at the address in Condition E2(b) of this permit.

TAPCR 1200-03-09-.02(11)(e)1.(iii)

(b) **Annual compliance certification.** The permittee shall submit annually compliance certifications with each term or condition contained in Sections A, B, D and E of this permit, including emission limitations, standards, or work practices. This compliance certification shall include all of the following (provided that the identification of applicable information may cross-reference the permit or previous reports, as applicable):

- (1) The identification of each term or condition of the permit that is the basis of the certification;
- (2) The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period; Such methods and other means shall include, at a minimum, the methods and means required by this permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Federal Act, which prohibits knowingly making a false certification or omitting material information;
- (3) The status of compliance with each term or condition of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in E2(b)2 above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion* or exceedance** as defined below occurred; and
- (4) Such other facts as the Technical Secretary may require to determine the compliance status of the source.

* “Excursion” shall mean a departure from an indicator range established for monitoring under this paragraph, consistent with any averaging period specified for averaging the results of the monitoring.

** “Exceedance” shall mean a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of a percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring.

Annual compliance certifications shall cover the 12-month period from ***** to ***** and shall be submitted within 60 days after the end of each 12-month period. The first annual compliance certification following issuance of this permit shall cover the following permits and reporting periods:

Permit Number	Certification Period
567519	***** through *****
578012	***** through *****

These certifications shall be submitted to:

TN APCD and **EPA**

**The Technical Secretary
Division of Air Pollution Control
Knoxville Environmental Field Office
3711 Middlebrook Pike
Knoxville, TN 37921**

**and Air Enforcement Branch
U. S. EPA Region IV
61 Forsyth Street, SW
Atlanta, Georgia 30303**

or

APC.KnoxEFO@tn.gov

40 CFR Part 70.6(c)(5)(iii) as amended in the Federal Register Vol. 79, No.144, July 28, 2014, pages 43661 through 43667
TAPCR 1200-03-09-.02(11)(e)3.(v)

- (c) **Retention of Records** All records required by any condition in Section E of this permit must be retained for a period of not less than five years. Additionally, these records shall be kept available for inspection by the Technical Secretary or a Division representative.

TAPCR 1200-03-09-.02(11)(e)1.(iii)(II)II

(d) MATS Reports (40 CFR 63 Subpart UUUUU)

- (1) **Permit issue date through December 31, 2023:** The permittee shall submit the reports required by 40 CFR 63 Subpart UUUUU (Condition E3-17). The permittee shall submit each report in accordance with §63.10031 and Table 8 of Subpart UUUUU.

Reporting periods shall be **January 1 to June 30** and **July 1 to December 31** of each calendar year. Each compliance report must be postmarked or submitted electronically no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Reports shall be submitted in accordance with §63.10031(f), as applicable. Copies of all reports shall be submitted to the Technical Secretary at the following address:

**Tennessee Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243**

or,

Email (signed PDF copy): Air.Pollution.Control@tn.gov

- (2) **On and after January 1, 2024:** On and after January 1, 2024, the permittee shall comply with the electronic reporting requirements in accordance with §63.10031 and the provisions referenced therein.

TAPCR 1200-03-09-.03(8) and 1200-03-09-.02(11)(e)1.(iii)(I)I., 40 CFR §63.10031

- (e) **Boiler MACT Report (40 CFR 63 Subpart DDDDD).** The permittee shall submit the reports required by 40 CFR 63 Subpart DDDDD (Condition *E4-4*). The permittee shall submit each report in accordance with §63.7550 and Table 9 of Subpart DDDDD.

Reporting periods shall be January 1 to December 31 of each calendar year. Each compliance report must be postmarked or submitted electronically no later than January 31, following the end of the annual reporting period. Reports shall be submitted in accordance with §63.7550(h), as applicable. Copies of all reports shall be submitted to the Technical Secretary at the following address:

**Tennessee Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243**

or,

Email (signed PDF copy): Air.Pollution.Control@tn.gov

TAPCR 1200-03-09-.03(8) and 1200-03-09-.02(11)(e)1.(iii)(I)I., 40 CFR §63.7550

- (f) **NSPS Performance Test Reports for Coal Preparation Plants (40 CFR 60 Subpart Y)** An owner or operator of each affected facility that commenced construction, reconstruction, or modification after April 28, 2008, must conduct performance tests according to the requirements of §60.8 and the methods identified in §60.257 to demonstrate compliance with the applicable emissions standards in 40 CFR 60 Subpart Y.

Within 60 days after completing each performance evaluation, the owner or operator of the affected facility must submit the test data to EPA by successfully entering the data electronically into EPA's WebFIRE database (see 40 CFR §60.258(d)). For performance tests that cannot be entered into WebFIRE (*i.e.*, Method 9 opacity performance tests) the owner or operator of the affected facility must mail a summary copy to United States Environmental Protection Agency; Energy Strategies Group; 109 TW Alexander DR; mail code: D243-01; RTP, NC 27711.

Copies of all reports shall be submitted to the Technical Secretary at the following address:

**Tennessee Department of Environment and Conservation
Attn: Compliance Validation Program
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243**

or

Email (signed PDF copy): Air.Pollution.Control@tn.gov

40 CFR §60.255(b), §60.258(d), and TAPCR 1200-03-09-.03(8)

E2-2. Recordkeeping: Data Entry Requirements

- (a) For daily recordkeeping, all data, including the results of all calculations, must be entered into the log no later than seven days from the end of the day for which the data is required.
- (b) For weekly recordkeeping, all data, including the results of all calculations, must be entered into the log no later than seven days from the end of the week for which the data is required.

- (c) For all other recordkeeping, all data, including the results of all calculations, must be entered into the log no later than 30 days from the date for which the data is required.

TAPCR 1200-03-10-.02(2)(a)

E2-3. Visible Emissions Evaluation: General Requirements

- (a) For all emission sources that use the opacity matrix decision trees (Attachment 1) to comply with any visible emissions requirement, including emission sources for which visible emissions are not required by the opacity matrix, if the magnitude and frequency of excursions reported by the permittee in the periodic monitoring for emissions is unsatisfactory to the Technical Secretary, this permit may be reopened to impose additional opacity monitoring requirements.
- (b) Compliance with the fugitive emission requirements of **Condition D7(b)** shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986. These evaluations shall be made semiannually.

TAPCR 1200-03-08, 1200-03-09-.02(11)(e)1.(iii), 1200-03-10-.02(1)(a)

E2-4. Ambient Monitoring for SO₂

Consistent with the provisions of TAPCR 1200-03-14-.01(6), each owner or operator of a fuel burning installation having a total rated capacity greater than 1,000 MMBtu/hr of SO₂ during calendar year 1972 or any other calendar year thereafter must comply with the following requirements:

- (a) Demonstrate to the satisfaction of the Technical Secretary, that the SO₂ emitted either alone or in contribution to other sources will not interfere with attainment and maintenance of any primary or secondary air quality standard.
- (b) Install and maintain air quality sensors to monitor attainment and maintenance of ambient air quality standards in the areas influenced by the emissions from such installation. Such shall be done in the manner prescribed by the Technical Secretary. Results of such monitoring shall be provided to the Technical Secretary in the manner and form as he shall direct. Owners or operators may petition and be granted permission by the Technical Secretary to terminate ambient air quality monitoring provided two calendar years air quality data has been generated in the area under the influence of the source's emissions to verify compliance with the Tennessee Ambient Air Quality Standards. Petitions may be granted if the following conditions are met:
- (1) The source must be located in an attainment area and must not significantly impact a SO₂ nonattainment area.
 - (2) Measurements of air quality in the vicinity of the source demonstrate that ambient SO₂ levels do not exceed 75 percent of the Tennessee Ambient Air Quality Standards.
- (c) All calculations performed pursuant to demonstration required by rule .01(6) shall assume that the process emission source and fuel burning installation is operating at a maximum rated capacity.

Pursuant to the approval letter from the Technical Secretary dated February 1, 2008, this facility has met the requirements of paragraphs (b)(1) and (b)(2) of this condition, and ambient SO₂ monitoring is not required.

TAPCR 1200-03-14-.01(6)

E2-5. Consent Decree/Federal Facilities Compliance Agreement

This facility is subject to a Consent Decree (State of Alabama et. al. v. TVA, Civil Action No. 3:11-cv-00170, filed April 14, 2011, approved June 13, 2011), which imposes certain requirements at this facility that are enforceable in accordance with the terms of that decree. In accordance with paragraph 154 of the referenced Consent Decree, this permit incorporates all system-

wide, unit-specific, and plant-specific performance, operational, maintenance, and control technology requirements established by the Consent Decree.

TVA shall comply with the reporting requirements specified in Attachment 4 of this permit. In addition to the reports required by Attachment 4, TVA shall provide a written report to EPA, the States, and the Citizen Plaintiffs of any violation of the requirements of this Consent Decree within 15 days of when TVA knew or should have known of any such violation. In this report, TVA shall explain the cause or causes of the violation and all measures taken or to be taken by TVA to prevent such violations in the future and measures taken or to be taken to mitigate the environmental effects of such violation, if any.

TAPCR 1200-03-06-.01(7), 1200-03-14-.01(3), Consent Decree

E2-6. Unless otherwise specified in this permit, the averaging time for an emission standard shall be the same time period as that of the compliance test method approved by the Technical Secretary.

E2-7. Identification of Responsible Official, Technical Contact, and Billing Contact

- (a) The application that was utilized in the preparation of this permit is dated February 6, 2020 and signed by Responsible Official Terry L. Gamble, Plant Manager of the permitted facility. If this person terminates employment or is assigned different duties and is no longer a Responsible Official for this facility as defined in part 1200-03-09-.02(11)(b)21 of the Tennessee Air Pollution Control Regulations, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification must be in writing and must be submitted within 30 days of the change. The notification shall include the name and title of the new Responsible Official and certification of truth and accuracy. All representations, agreement to terms and conditions, and covenants made by the former Responsible Official that were used in the establishment of the permit terms and conditions will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements, and/or covenants.
- (b) The application that was utilized in the preparation of this permit is dated February 6, 2020 and identifies Steed K. Stagnolia as the Principal Technical Contact for the permitted facility. If this person terminates employment or is assigned different duties and is no longer the Principal Technical Contact for this facility, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification must be in writing and must be submitted within 30 days of the change. The notification shall include the name and title of the new Principal Technical Contact and certification of truth and accuracy.
- (c) The application that was utilized in the preparation of this permit is dated February 6, 2020 and identifies Michael G. Tritapoe as the Billing Contact for the permitted facility. If this person terminates employment or is assigned different duties and is no longer the Billing Contact for this facility, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification must be in writing and must be submitted within 30 days of the change. The notification shall include the name and title of the new Billing Contact and certification of truth and accuracy.

E2-8. Nonapplicable Requirements

The Technical Secretary, in acting on the permit application dated February 6, 2020, has determined that certain requirements specifically identified and listed in Attachment 2 are not applicable to the source.

TAPCR 1200-03-09-.02(11)(e)6

E2-9. Acid rain program

- (a) The permittee shall not produce emissions in excess of allowances held under Title IV of the Federal Clean Air Act and the regulations promulgated thereunder and TAPCR 1200-03-30.

- (b) The permittee shall not be subject to the permit revision requirements of TAPCR 1200-03-09-.02(11)(f) for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement.
- (c) Where an applicable requirement of the Federal Act is more stringent than the Federal regulations promulgated under Title IV of the Federal Act, both provisions shall be incorporated into the permit and shall be enforceable by the administrator.
- (d) No limit shall be placed on the number of allowances held by this source under the acid rain program. The permittee may not use allowances as a defense for noncompliance with any other applicable requirement.
- (e) Any allowance shall be accounted for according to the regulations promulgated under Title IV of the Federal Clean Air Act and the provisions of TAPCR 1200-03-30.
- (f) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75 and section 407 of the Act and regulations implementing section 407 of the Act (Attachment 5).
- (g) For each calendar year in which a unit is subject to the Acid Rain emissions limitations, the designated representative of the source at which the unit is located shall submit to the Administrator and to the Technical Secretary, within 60 days after the end of the calendar year, an annual compliance certification report for the unit in compliance with TAPCR 1200-03-30-.08 and 40 CFR §72.90.
- (h) Acid Rain Permit 877418 is included with this permit as Attachment 7.

TAPCR 1200-03-09-.02(11)(e)1(iv), and 1200-03-30

E2-10. Emissions Inventory Requirements (State-Only)

The permittee shall submit emissions inventories in accordance with TAPCR 1200-03-10-.05.

E2-11. Annual Emission Statement for VOC and NO_x

The owner or operator of any facility in Davidson, Rutherford, Shelby, Sumner, Knox, Blount, Anderson, Williamson, or Wilson County which has actual emissions from stationary sources of 25 tons or more of VOC and/or NO_x during a calendar year shall report to their permitting authority information and data concerning these emissions. This information and data shall be in the form prescribed by the Technical Secretary, and shall be submitted before March 31 of the year following the calendar year for which the information and data is reported. Each report shall be signed by an official of the company, certifying that the information and data contained in the report is accurate to the best knowledge of the individual certifying the report.

TAPCR 1200-03-18-.02(8) and 1200-03-27-.02(6)

01-0009-01	Source Description: <u>Coal Fired Boiler for Steam and Electricity Generation</u> . 8,871 Million Btu/hour nominal heat input. 950 Megawatts (nameplate capacity). Electrostatic precipitator, selective catalytic reduction, and wet limestone scrubber controls. TVA designated emission unit #1
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Conditions E3-1 through E3-16 apply to fuel burning installation 01-0009 -01
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- E3-1.** The fuel burning equipment at this installation consists of one coal-fired boiler installed in 1966. The unit is a pulverized-coal, tangentially-fired, dry bottom boiler without fly ash reinjection. The boiler has a nameplate heat input capacity of 8,871 MMBtu/hr and exhausts through a stack of 500 feet in height and 33.5 feet in diameter.

The facility is permitted to burn the following fuels:

- (1) Coal with No. 2 fuel oil used for startup;
- (2) Wood and wood waste, excluding solid waste as defined in 40 CFR §241.2.;
- (3) Fuel oil may also be burned as follows:
 - (i) under non-steady-state and low-load conditions to ensure flame stability, and
 - (ii) to supplement boiler heat input when the heat input from coal is insufficient.
- (4) Used oil that meets the requirements of 40 CFR §279.11.

TAPCR 1200-03-09-.02(11)(e)1.(i)

Compliance Method: The permittee shall maintain monthly records of the amount and type of fuel burned. These records shall be maintained at the facility and shall be available for inspection by the Technical Secretary or the authorized representative.

- E3-2.** The amount of on-spec used oil, as defined at 40 CFR 279, that can be burned in this fuel burning installation shall not exceed 100,000 gallons per year.

TAPCR 1200-03-09-.02(11)(e)1.(i) and (iii), 1200-03-10-.02(2)(a)

Compliance Method: Compliance with this condition shall be assured by compliance with the recordkeeping requirements established by **Condition E3-1**. The permittee shall also maintain records, as required by 40 CFR Part 279, documenting that any used oil burned in the boiler meets the requirements of 40 CFR §279.11. These records shall be maintained at the facility and shall be available for inspection by the Technical Secretary or an authorized representative.

- E3-3.** The permittee may conduct test burns of fuels other than those listed in **Condition E3-1** for up to 30 operating days without a construction permit or a reopening of this permit provided that:

- (a) Notification is provided to the Technical Secretary at least 30 days prior to initiation of the burning of such fuels. Notification at a minimum shall include a copy of the test plan; the fuels to be burned; an estimated start date and completion date; an estimate of the impact on control devices; and an estimate of the impact on emissions;
- (b) The source complies with all applicable emission limitations; and
- (c) The permittee agrees to perform additional testing as may be required by the Technical Secretary.

The permanent use of such fuels shall be allowed upon completion of testing unless the Technical Secretary determines that a permit revision is required. Such determination will examine triggering control requirements under the PSD, NESHAPS, NSPS or other programs. In any event, the Technical Secretary shall issue an approval or disapproval for the continuing use of the alternate fuel.

TAPCR 1200-03-09-.02(11)(e)1.(i) and (iii)

Compliance Method: Compliance with this condition shall be assured by compliance with the recordkeeping requirements established by **Condition E3-1**.

- E3-4.** Particulate matter (PM) emitted from this fuel burning installation shall not exceed 0.030 pounds per million British Thermal Units (lb/MMBtu) of heat input.

TAPCR 1200-03-05-.02(2)(d), 1200-03-06-.02(1), 1200-03-09-.02(11)(e)1.(iii), Consent Decree

Compliance Method: Compliance with this condition shall be assured as follows:

- (a) The permittee shall perform stack testing of this fuel burning source to demonstrate compliance with the applicable particulate emissions limits. Testing shall be performed every calendar year, and a particulate source test report shall be filed with the Technical Secretary within 45 days after completion of the testing. Ten days prior to conducting the source test, the permittee shall provide notice of such test to the Technical Secretary to afford the opportunity to have an observer

present. Testing shall be conducted in accordance with TAPCR 1200-03-12 and 40 CFR 60, Appendix A, Method 5 **and** ensuring that the front half filter temperature shall be $160^{\circ} \pm 14^{\circ} \text{C}$ ($320^{\circ} \pm 25^{\circ} \text{F}$). TVA shall calculate the PM emission rate from the stack test results in accordance with 40 CFR §60.8(f). The continuous in-duct opacity monitor(s) shall be fully operational prior to and during the performance test. The opacity data generated during this compliance testing shall be incorporated into the test report. Stack testing performed as part of an annual relative response audit (RRA) under 40 CFR 63 Subpart UUUUU (**Condition E3-17**) shall be considered to satisfy this requirement.

- (b) The permittee shall operate the continuous opacity monitoring system (COMS) to provide an indication of good operational and maintenance practices. The COMS shall comply with **Conditions E3-10, E3-11, E3-12, and E3-13** of this permit.
- (c) The Technical Secretary may require additional performance testing for exceedances of the *de minimis* criteria specified in TAPCR 1200-03-20-.06. The permittee shall conduct performance tests upon written notification of the Technical Secretary, within the time period specified in the written notification.
- (d) Beginning June 13, 2011 and continuing thereafter, the permittee shall continuously operate (as defined by Paragraph 15 of the Consent Decree) the PM Control Device. TVA shall, at a minimum, to the extent reasonably practicable and consistent with manufacturers' specifications, the operational design of the Unit, and good engineering practices,
 1. Fully energize each section of the ESP;
 2. Operate automatic control systems on the ESP to maximize PM collection efficiency; and
 3. Maintain power levels delivered to the ESP as needed to maximize collection efficiency.

TVA shall implement the recommendations of the PM optimization study conducted for the ESP on Bull Run Unit 1 (approved by EPA on February 4, 2013).

- (e) The permittee shall maintain and operate installed PM continuous emission monitoring systems (CEMS) as specified below. Each PM CEMS shall comprise a continuous particle mass monitor measuring PM concentration, directly or indirectly, on an hourly average basis and a diluent monitor used to convert the concentration to units of lb/MMBtu. The PM CEMS installed at each flue must be appropriate for the anticipated stack conditions. The permittee shall maintain, in an electronic database, the hourly average emission values produced by each PM CEMS in lb/MMBtu. Except for periods of monitor malfunction, maintenance, or repair, the permittee shall continuously operate the PM CEMS at all times when at least one Unit it serves is operating.

The Permittee shall continue to report the data recorded by the PM CEMS, expressed in lb/MMBtu on a 3-hour rolling average basis and a 24-hour rolling average basis in electronic format to EPA, the States, and the Citizen Plaintiffs, including identification of each 3-hour average and 24-hour average above the applicable PM Emission Rate for Kingston Units 1-9. Upon termination of the Consent Decree, or the applicable provisions therein, test results shall be submitted to the Technical Secretary; submittal to EPA and the Citizen Plaintiffs will no longer be required by this permit upon termination of the Consent Decree.

- E3-5.** Sulfur dioxide (SO₂) emissions from this fuel burning installation shall not exceed 4.0 lb/MMBtu of heat input (TAPCR 1200-03-14-.02(1)(a)). A 24-hour midnight to midnight averaging basis, as specified in TAPCR 1200-03-14-.02(1)(d), shall be utilized.

State-Only Provision: Consistent with the provisions of TAPCR 1200-03-20-.06, no notice of violation shall be automatically issued unless the specified *de minimis* level of one 24-hour period per year of SO₂ emissions in excess of the applicable SO₂ emissions standard, as measured by the continuous in-stack SO₂ emissions monitoring system, is exceeded. This exemption is applicable provided that good operational and maintenance practices are utilized for both the fuel burning equipment and the associated air pollution control equipment, and the operational availability of the SO₂ monitoring system (**Condition E3-6**) is maintained.

TAPCR 1200-03-09-.02(11)(e)1.(iii), 1200-03-10-.02, 1200-03-14-.02(1)(a) and (d), 1200-03-20-.06

Compliance Method: Compliance with this emission standard shall be determined through the use of continuous in-stack monitoring for SO₂. Continuous monitoring for SO₂ shall meet the requirements of TAPCR 1200-03-10-.02 and **Conditions E3-6, E3-7, E3-12, and E3-13** of this permit.

E3-6. Operational Availability Condition for the SO₂ Monitoring System

The use of continuous in-stack monitoring for SO₂ is the method by which this fuel burning installation proves continual compliance with the applicable SO₂ emission limitation. Therefore, for this fuel burning installation to demonstrate continual compliance with the applicable SO₂ emission limitation, the SO₂ monitoring system shall be fully operational for at least 95% of the operational time of the monitored unit during each semiannual reporting period. An operational availability level of less than this amount may be considered the basis for declaring the fuel burning installation in noncompliance with the applicable monitoring requirements, unless the reasons for the failure to maintain these levels of operational availability are accepted by the Division as being legitimate malfunctions of the instruments or due to limited operation of the monitored units.

TAPCR 1200-03-10-.02(1)(a)

Compliance Method: Compliance with this condition shall be assured compliance with **Condition E3-13**.

E3-7. Quality Assurance Condition for the SO₂ Monitoring System

Quality assurance checks shall be performed on the SO₂ monitoring system on an annual basis. The quality assurance checks shall consist of a repetition of the relative accuracy portion of the Performance Specification Test. Written reports of the quality assurance checks shall be submitted to the Technical Secretary.

Within 90 days of each major modification or major repair of any SO₂ emissions monitor, diluent monitor, or electronic signal combining system, a repeat of the performance specification test shall be conducted. A written report of the performance specification test shall be submitted to the Technical Secretary as proof of the continuous operation of the SO₂ emissions monitoring system within acceptable limits.

TAPCR 1200-03-10-.02(1)(a)

Compliance Method: Reports shall be submitted as required to the Compliance Validation program at the address below:

**Tennessee Department of Environment and Conservation
Division of Air Pollution Control
Compliance Validation Program
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243**

or,

Email (signed PDF copy): Air.Pollution.Control@tn.gov

E3-8. Visible emissions from this fuel burning installation shall not exceed 20% opacity except for one six-minute period per hour of not more than 40% opacity as specified in TAPCR 1200-03-05-.01(1). Opacity data reduction shall be accomplished by EPA Method 9 utilizing the procedures outlined in the current 40 CFR 60, Appendix A (six-minute average opacity).

Compliance Method: Compliance with this condition shall be assured by the monitoring, recordkeeping, and reporting specified in **Condition E3-4** of this permit.

TAPCR 1200-03-05-.01(1), 1200-03-09-.02(11)(e)1.(iii)

- E3-9.** Consistent with the requirements of Chapter 1200-03-20 and Rule 1200-03-05-.02, due allowance shall be made for visible emissions in excess of that allowed in **Condition E3-8** which are necessary or unavoidable due to routine startup and shutdown conditions.

Routine startups as used above shall only cover startups which have less than 6.0 hours of visible emission levels in excess of the standard in paragraph 1200-03-05-.01(1), and shall not include any periods of time in which visible emissions exceed 80% percent opacity for more than 18 minutes based on six-minute average intervals. Routine shutdowns as used above shall only cover shutdowns which have less than 6.0 hours of visible emission levels in excess of the standard in paragraph 1200-03-05-.01(1), and shall not include any periods of time in which visible emissions exceed 80% percent opacity for more than 30 minutes based upon six-minute averaging intervals.

TAPCR 1200-03-05-.02(1) and 1200-03-20-.06(1)

Compliance Method: A log of all malfunctions and nonroutine startups and shutdowns shall be maintained in accordance with Rule 1200-03-20-.04. Irrespective of the start-up and shutdown exemptions set forth on this operating permit for any source, no emission shall be allowed which can be proved by the Technical Secretary to cause or contribute to any violations of the Ambient Air Quality Standards contained in Chapter 1200-03-03.

E3-10. Operational Availability Condition for the Opacity Monitoring System

The opacity monitoring system for this fuel burning installation shall be fully operational for at least 95% of the operational time of the monitored unit during each semiannual reporting period. An operational availability level of less than this amount may be considered the basis for declaring the fuel burning installation in noncompliance with the applicable monitoring requirement, unless the reasons for the failure to maintain this level of operational availability are accepted by the Division as being legitimate malfunctions of the instruments or due to limited operation of the monitored units.

TAPCR 1200-03-10-.02(1)(a)

Compliance Method: Compliance with this condition shall be assured compliance with **Condition E3-13**.

E3-11. Quality Assurance Condition for the Opacity Monitoring System

On-stack quality assurance audits shall be conducted on a semiannual basis. This on-stack quality assurance audit shall consist of a repetition of the calibration error portion of Performance Specification 1 (40 CFR 60, Appendix B) utilizing the on-stack audit device, and written reports of the audits shall be submitted to the Technical Secretary.

As an alternative to this, an off-stack quality assurance audit may be conducted on a biennial calendar basis. If elected, this quality assurance audit shall include, at a minimum, a repetition of the calibration portion of Performance Specification 1. Both the monitor transceiver and retroreflector must be removed from the stack and set up to the stack path length prior to conducting the quality assurance. Written reports of the quality assurance checks shall be submitted to the Technical Secretary. Prior to the commencing of the use of this option, the Technical Secretary shall be informed in writing of the election of this option. Utilization of this option shall not be cause for the reopening of this permit.

Within 90 days of each major modification or major repair of any opacity monitor or the electronic signal combining system, a repeat of the performance specification test shall be conducted. A written report of the performance specification test shall be submitted to the Technical Secretary as proof of the continuous operation of the opacity monitoring system within acceptable limits.

TAPCR 1200-03-10-.02(1)(a)

Compliance Method: Reports shall be submitted as required to the Compliance Validation program at the address below:

**Tennessee Department of Environment and Conservation
Division of Air Pollution Control
Compliance Validation Program
William R. Snodgrass Tennessee Tower**

**312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243**

or,

Email (signed PDF copy): Air.Pollution.Control@tn.gov

E3-12. Data Averaging for SO₂ and Opacity

For SO₂, 18 valid one-hour data averages are required in order to calculate a valid daily average (midnight to midnight). One-hour averages shall be calculated from four or more equally spaced data averages over each one-hour period, except during periods when calibration, quality assurance, or maintenance are being performed. A valid one-hour average during these periods shall consist of at least two data points with each representing a 15-minute time period. Hourly SO₂ emission rates are not calculated if the affected facility is operated less than 30 minutes in a one-hour period.

“One day” is defined as the 24-hour time period from midnight to midnight and “one hour” is defined as any of the 24 successive 60-minute time blocks beginning at midnight.

Average values for opacity may be obtained by integration over the six-minute averaging period or by arithmetically averaging a minimum of 24 equally spaced, instantaneous opacity measurements per six-minute period. Opacity data recorded during periods of monitoring system breakdown, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages.

TAPCR 1200-03-09-.02(11)(e)(1)(iii); 1200-03-10-.02(1)(a); and 1200-03-10-.02(2)

E3-13. Reports for SO₂ and Opacity

From the emissions data generated by the continuous in-stack opacity and SO₂ monitoring systems, reports of opacity emissions over 20% and excess SO₂ emissions shall be generated. The format of these reports shall meet the requirements of TAPCR 1200-03-10-.02(2).

(a) For opacity monitoring, the reports shall consist of:

- (1) The magnitude in actual percent opacity of all six-minute averages of opacity greater than 20% for each hour of operation of the source minus one six-minute exempt period of no more than 40% opacity;
- (2) The operational availability of the opacity monitor; the date and time identifying each period during which the system was inoperative, except for zero and span checks; and the nature of system repairs or adjustments shall be reported. The Technical Secretary may require proof of system performance whenever system repairs or adjustments have been made;
- (3) When no emissions over 20% opacity have occurred and the system has not been inoperative, repaired, or adjusted, such information shall be included in the report; and
- (4) The nature and cause of emissions over 20% opacity, if known.

(b) For SO₂ monitoring, the reports shall consist of:

- (1) Emission averages, in the units of the applicable standard, for each averaging period during operation of the source.
- (2) Identification of each averaging period in which the applicable standard was exceeded and the nature and cause of excess emissions, if known;
- (3) The operational availability of the sulfur dioxide monitor; the date and time identifying each period during which the system was inoperative, except for zero and span checks; and the nature of system repairs or

adjustments shall be reported. The Technical Secretary may require proof of system performance whenever system repairs or adjustments have been made; and

- (4) When no excess emissions have occurred and the system has not been inoperative, repaired, or adjusted, such information shall be included in the report.

TAPCR 1200-03-10-.02(2) and 1200-03-09-.02(11)(e)1(iii)

Compliance Method: Compliance shall be assured by semiannual reporting, as required in **Condition E2-1(a)**.

E3-14. Cross-State Air Pollution Rule Requirements

The permittee shall comply with the applicable provisions of 40 CFR 97 Subparts AAAAA (CSAPR NO_x Annual Trading Program), CCCCC (CSAPR SO₂ Group 1 Trading Program), and EEEEE (CSAPR NO_x Ozone Season Group 2 Trading Program). The permittee shall comply with paragraphs 74 through 78 of the Consent Decree regarding the use and surrender of NO_x allowances, and with paragraphs 90 through 93 of the Consent Decree regarding the use and surrender of SO₂ allowances. The permittee may sell, bank, use, trade, or transfer any allowances in accordance with paragraphs 82 and 94 of the Consent Decree (Super-Compliance Allowances). For surrender of allowances, the permittee shall comply with paragraphs 79, 80, 95, and 96 of the Consent Decree. CSAPR general requirements are included in Attachment 3.

TAPCR 1200-03-09-.03(8) and 40 CFR §52.2240 and §52.2241, 40 CFR §§97.401 – 97.435, §§97.501 – 97.535, §§97.601 – 97.635, Consent Decree

E3-15. Continuous Operation of NO_x and SO₂ Control Equipment

The permittee shall continuously operate any pollution control technology or combustion control (including, but not limited to, SCR, FGD, PM Control Device, SNCR, Low NO_x Burner (LNB), Overfire Air (OFA) or Separated Overfire Air (SOFA)) at all times such Unit is in operation, except during a Malfunction that is determined to be a Force Majeure Event as defined by the Consent Decree. This continuous operation serves to minimize emissions to the greatest extent technically practicable consistent with the technological limitations, manufacturers' specifications, fire prevention codes, and good engineering and maintenance practices for such pollution control technology or combustion control and the Unit. This condition specifically applies to such equipment as the installed SCR and Wet FGD for NO_x and SO₂ emissions control at the Bull Run Fossil Plant.

TAPCR 1200-03-09-.03(8), Consent Decree

Compliance Method: Compliance shall be assured by annual certification, as required in **Condition E2-1(b)**.

E3-16. Compliance with System-Wide Annual NO_x and SO₂ Tonnage Limits

During each calendar year all Units in the TVA System and any New CC/CT Units constructed pursuant to Paragraph 117 of the Consent Decree, collectively, shall not emit NO_x or SO₂ in excess of the System-Wide Annual Tonnage Limitations found in paragraphs 67-68 and 82-84 of the Consent Decree.

TAPCR 1200-03-09-.03(8), Consent Decree

Compliance Method: In accordance with 40 CFR Part 75, TVA shall use CEMS to monitor emissions of NO_x and SO₂ to demonstrate compliance with the System-Wide Annual Tonnage Limitations.

E3-17. Mercury and Air Toxics Standards (MATS) requirements (coal-fired units, not low rank virgin coal)

(a) The permittee shall comply with the following emission limits:

Emission Limits for Existing EGUs (Table 2 of Subpart UUUUU)

Comply with the following input or output-based emission limits¹ and with other requirements in Table 2 of Subpart UUUUU.

Pollutant		Input-Based Standard	Output-Based Standard		
PM/HAP Metals - comply with (a), (b), or (c)	(a)	Filterable PM	0.030 lb/MMBtu	0.30 lb/MWh ²	
	(b)	Total non-Hg HAP metals	0.000050 lb/MMBtu	0.50 lb/GWh	
	(c)	Individual HAP metals:			
			Antimony (Sb)	0.80 lb/TBtu	0.0080 lb/GWh
			Arsenic (As)	1.1 lb/TBtu	0.020 lb/GWh
			Beryllium (Be)	0.20 lb/TBtu	0.0020 lb/GWh
			Cadmium (Cd)	0.30 lb/TBtu	0.0030 lb/GWh
			Chromium (Cr)	2.8 lb/TBtu	0.030 lb/GWh
			Cobalt (Co)	0.80 lb/TBtu	0.0080 lb/GWh
			Lead (Pb)	1.2 lb/TBtu	0.020 lb/GWh
			Manganese (Mn)	4.0 lb/TBtu	0.050 lb/GWh
		Nickel (Ni)	3.5 lb/TBtu	0.040 lb/GWh	
	Selenium (Se)	5.0 lb/TBtu	0.060 lb/GWh		
HCl/SO ₂ - comply with (a) or (b) ³	(a)	HCl	0.0020 lb/MMBtu	0.020 lb/MWh	
	(b)	SO ₂	0.20 lb/MMBtu	1.5 lb/MWh	
Mercury - comply with (a) or (b)	(a)	CEMS or sorbent trap	1.2 lb/TBtu	0.013 lb/GWh	
	(b)	30-day or 90-day LEE testing	1.0 lb/TBtu	0.011 lb/GWh	
Notes:					
1. For LEE emissions testing for total PM, total HAP metals, individual HAP metals, HCl, and HF, the required minimum sampling volume must be increased nominally by a factor of two.					
2. Gross output.					
3. You may not use the alternate SO ₂ limit if your EGU does not have some form of FGD system and SO ₂ CEMS installed.					

(b) The permittee shall comply with the following requirements:

Description	Subpart UUUUU Requirement	Rule Citation
Emission limits	The emission limits and operating limits apply at all times except during periods of startup and shutdown	§63.10000(a)
Work practice standards	Operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	§63.10000(b)
Low emitting EGU (LEE)	Comply with §63.10000(c), as applicable.	§63.10000(c)
Site-specific monitoring plan	Comply with §63.10000(d), as applicable.	§63.10000(d)
Emissions averaging	Comply with §§63.10009 and 63.10022, as applicable.	§63.10009, §63.10022
Work practice standards	Comply with Table 3 provisions for existing EGUs during startup and shutdown.	§63.10000(a)
Operating limits	Comply with Table 4 provisions for PM CPMS, as applicable.	§63.9991
Performance testing	Comply with Table 5.	§63.10007
PM CPMS operating limits	Comply with §63.10023, as applicable. Comply with Table 6 provisions for filterable PM, total non-mercury HAP metals, individual non-mercury HAP metals, total HAP metals, or individual HAP metals, as applicable.	§63.10007
Demonstrating continuous compliance	Comply with §§63.10020 and 63.10021, as applicable. Comply with Table 7 provisions for CEMS, quarterly performance testing, periodic tune-ups, and work practice standards for coal-fired EGUs during startup and shutdown.	§63.10021
Notification requirements	As specified in §63.10030.	§63.10030
Recordkeeping requirements	As specified in §63.10032 and §63.10033.	§63.10032, §63.10033
Reporting requirements	Comply with §63.10031 and Table 8.	§63.10031
MACT General Provisions	General Provisions apply as indicated in Table 9.	§63.10040

TAPCR 1200-03-09-.03(8), 40 CFR 63 Subpart UUUUU

01-0009-02, 03, and 04	Source Description: <u>Auxiliary Boilers 1A, 1B, and 1H</u> (Fuel Burning Installation): Auxiliary startup boilers 1A and 1B provide steam to the coal-fired boiler (01-0009-01) during startup. Auxiliary heating boiler 1H provides steam to the boiler building heating system. The boilers were installed in 1966. All boilers are fired with distillate oil (No. 2 fuel oil) or alternate fuel oils that meet all applicable standards. Boilers 1A and 1B exhaust through a common stack of 190-foot height and six-foot diameter. Boiler 1H exhausts through a stack of 190-foot height and 1.94-foot diameter. Boilers 1A and 1B are rated at a heat input capacity of 126 MMBtu/hr each, and Boiler 1H is rated at a heat input capacity of 16.75 MMBtu/hr. TVA designated emission units #2 and #3.
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Conditions E4-1 through E4-3 apply to fuel burning installation 01-0009-02, 03, and 04

E4-1. Particulate matter (PM) emitted from this fuel burning installation shall not exceed 0.255 lb/MMBtu of heat input.

TAPCR 1200-03-06-.02(1)

Compliance Method: Compliance with this condition is based on the information contained in the application dated February 6, 2020 and the AP-42 emission factor for fuel oil combustion (see below). Maximum actual emissions were estimated to be 0.015 lb/MMBtu and 0.6 tons/year. Compliance shall be assured by annual certification, as required in **Condition E2-1(b)**.

Pollutant	Emission Factor (pounds per thousand gallons fuel oil)
Particulate Matter	2
U. S. EPA, <i>Compilation of Air Pollutant Emissions Factors (AP-42)</i> , Table 1.3-1 (Criteria Pollutant Emission Factors for Fuel Oil Combustion, September 1999).	

E4-2. Sulfur dioxide (SO₂) emitted from this source shall not exceed 4.0 lb/MMBtu of heat input (one-hour average).

TAPCR 1200-03-14-.02(1)(a)

Compliance Method: Compliance with this condition is based on the information contained in the application dated February 6, 2020 and the AP-42 emission factor for fuel oil combustion (see below). Maximum actual emissions were estimated to be 0.001 lb/MMBtu and 0.03 tons/year. Compliance shall be assured by annual certification, as required in **Condition E2-1(b)**.

Pollutant	Emission Factor (pounds per thousand gallons fuel oil)
Sulfur Dioxide	0.213
U. S. EPA, <i>Compilation of Air Pollutant Emissions Factors (AP-42)</i> , Table 1.3-1. The SO ₂ emission factor is based on a sulfur content of 0.0015% by weight. The AP-42 emission factor is 142S, where S = weight % sulfur in oil.	

E4-3. Visible emissions from this source shall not exceed 20% opacity as specified in TAPCR 1200-03-05-.01 (aggregate count). Visible emissions from stacks will be determined by Tennessee Visible Emission Evaluation Method 2 as adopted by the Tennessee Air Pollution Control Board on August 24, 1984.

Compliance Method: Compliance with this condition shall be assured by the procedures of the Opacity Matrix Decision Tree for Visible Emission Evaluation, amended September 11, 2013 (Attachment 1).

E4-4. 40 CFR Part 63 Subpart DDDDD

The permittee shall comply with the requirements of 40 CFR Part 63 Subpart DDDDD (National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters), as indicated in **Table E4-4**.

Requirement			Rule Citation
Comply with each applicable emission limit in Table 2 to Subpart DDDDD.			§63.7500(a)(1), Table 2 to Subpart DDDDD
Subcategory	Pollutant	Emission Limits (excluding startup and shutdown)	
Units designed to burn liquid fuel	HCl	1.1E-03 lb/MMBtu	
	Mercury	2.0E-06 lb/ MMBtu	
Units designed to burn light liquid fuel	CO	130 ppmv, dry basis corrected to 3% O ₂	
	Filterable PM (or TSM)	7.9E-03 lb/MMBtu PM (or 6.2E-05 lb/MMBtu TSM)	

Table E4-4: 40 CFR Part 63 Subpart DDDDD Specific Applicability Determinations for 01-0009-02, 03, & 04	
Requirement	Rule Citation
Existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater – conduct a tune-up of the boiler or process heater annually as specified in. Units in all other subcategories will conduct this tune-up as a work practice for dioxins/furans.	§63.7500(a)(1), §63.7540(a)(10), Table 3 to Subpart DDDDD
Comply with applicable work practice standards during startup and shutdown.	§63.7500(a)(1), §63.7500(f), §63.7540(d), Table 3 to Subpart DDDDD
At all times, operate and maintain the affected source and associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	§63.7500(a)(3)
Emission and operating limits apply at all times except as noted in §63.7500(f).	§63.7505(a)
If your boiler or process heater is in the unit designed to burn light liquid subcategory and you combust ultra-low sulfur liquid fuel, you do not need to conduct further performance tests (stack tests or fuel analyses) if the pollutants measured during the initial compliance performance tests meet the emission limits in Tables 1 or 2 of Subpart DDDDD. Demonstrate ongoing compliance with the emissions limits by monitoring and recording the type of fuel combusted on a monthly basis. If you intend to use a fuel other than ultra-low sulfur liquid fuel, natural gas, refinery gas, or other gas 1 fuel, conduct new performance tests within 60 days of burning the new fuel type.	§63.7515(h)
Reporting and recordkeeping requirements	§63.7550, §63.7555, §63.7560
Applicability of General Provisions	§63.7565, Table 10 to Subpart DDDDD

TAPCR 1200-03-09-.03(8), 40 CFR Part 63 Subpart DDDDD

01-0009-06	Source Description	<p>Ash Handling: Bottom ash and economizer ash are pumped as wet slurry to the dewatering facility. After dewatering (15% moisture), the material is loaded onto trucks for disposal at the onsite bottom ash landfill. Pyrite removal rejects are pumped as a wet slurry to a shallow pond. Fugitive emissions are generated by the mobile equipment used for loading and hauling the bottom ash to the landfill. TVA designated emission unit #8.</p> <p>Fly ash from the SCR, air preheater, and ESPs are transported by a vacuum system to one of two ash storage silos. The ash stored in the silo is loaded into tank trucks for offsite use or is conditioned to 15-20% moisture and loaded into hopper trucks for onsite disposal. The storage silos have fluidizing blowers to keep the ash from becoming compacted and loadout systems for loadout of dry fly ash sold to offsite users. Bin vent filters are used to control particulate matter emissions from the storage silos. TVA designated emission units #6, 7, 21, 22, 23, 24, 25, and 26.</p>
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Conditions E5-1 through E5-5 apply to source 01-0009-06

E5-1. The stated design throughput capacity of this source is 160,000 lb/hr of fly ash and 23,800 lb/hr of bottom ash.

TAPCR 1200-03-09-.01(1)(d), condition 2 of construction permit 966159P

Compliance Method: Compliance with this condition is based on the information provided with the application dated February 6, 2020 and the recordkeeping requirements established in **Condition E5-2**. The permittee shall not modify the source to increase

the design capacity without first having applied for and received from the Technical Secretary a construction permit or Title V modification in accordance with TAPCR 1200-03-09. . Compliance shall be assured by annual certification, as required in **Condition E2-1(b)**.

E5-2. Particulate Matter Emission and Operating Limits:

- (a) PM, PM₁₀, and PM_{2.5} emitted from this source shall not exceed the following limits:

Emission Point	PM, PM ₁₀ , and PM _{2.5} Emission Limits	Underlying Applicable Requirement
Fly Ash Vacuum Filter Systems (TVA designated emission points 22-26).	0.005 grains/dscf (0.126 lb/hr and 0.55 tons/year)	TAPCR 1200-03-07-.01(5), agreement letter dated March 25, 2010. TAPCR 1200-03-09-.01(5)(b)2.(ii). These limits represent Best Available Control Technology (BACT) for PM _{2.5} emissions.
Fly ash storage silo bin vents (TVA designated emission points 6C and 21C).	0.005 grains/dscf (0.28 lb/hr and 1.23 tons/year)	
Fly Ash Loadout Only (TVA designated emission points 6A, 6B, 21A, 21B)	0.12 lb/hr and 0.02 tons/year	
Bottom ash dewatering - TVA designated emission points 8A-8G	PM emission limits – 1.441 lb/hr and 1.504 tons/year	TAPCR 1200-03-07-.01(5), agreement letter dated June 12, 2012. TAPCR 1200-03-09-.01(5)(b)2(ii). These limits represent BACT for PM _{2.5} emissions.
	PM ₁₀ emission limits – 0.3522 lb/hr and 0.369 tons/year	
	PM _{2.5} emission limits – 0.05785 lb/hr and 0.06217 tons/year	

- (b) The handling of dry fly ash at this facility shall not exceed 449,000 tons during any period of 12 consecutive months.
- (c) The total amount of dewatered bottom ash handled by this source shall not exceed 104,244 tons during any period of 12 consecutive months.

Compliance Method: The dry fly ash handling system and bottom ash dewatering equipment shall be maintained, kept in good operating condition, and inspected semiannually to ensure compliance with the applicable particulate matter limits. Records of semiannual inspections, any maintenance performed, and monthly records of the amount of fly ash and dewatered bottom ash handled by the source (including 12-month rolling totals) shall be maintained at the source location and kept available for the Technical Secretary or an authorized representative. Compliance with this condition is also based upon the emission calculations in the application dated February 6, 2020 (pages 6-22 through 6-36).

- E5-3.** Visible emissions from this source shall not exhibit greater than 10% opacity, except for one six-minute period in any one-hour period, and for no more than four six-minute periods in any 24-hour period. Visible emissions from this source shall be determined by EPA Permit Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

Compliance Method: Compliance with this condition shall be assured by the procedures of the Opacity Matrix Decision Tree for Visible Emission Evaluation, amended September 11, 2013 (Attachment 1).

TAPCR 1200-03-05-.01(3) and 1200-03-05-.03(6)

- E5-4.** Fugitive emissions from this source shall be controlled as specified in Rule 1200-03-08-.01. Specifically, no person shall cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five minutes per hour or 20 minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in Chapter 1200-03-20. Fugitive emissions from this source shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986.

Compliance Method: Compliance with this condition shall be assured as follows:

- (a) Fugitive emissions from this source shall be controlled by the operation, as needed, of the wet suppression system (water truck and sprays) at the haul road and at any material loading points.
- (b) Compliance with this standard shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986. These evaluations shall be made semiannually.

TAPCR 1200-03-08-.01

E5-5. Visible emissions from roads and parking areas shall not exhibit greater than 10% opacity as determined by Tennessee Visible Emission Evaluation (TVEE) Method 1, as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982 and August 24, 1984.

TAPCR 1200-03-08-.03

Compliance Method: Compliance with this condition shall be assured by the procedures of the Opacity Matrix Decision Tree for Visible Emission Evaluation, amended September 11, 2013 (Attachment 1).

01-0009-07	Source Description:	Coal Handling: Coal Breaker Building and Coal Storage Yard: Four Bradford Breakers (coal breaker building), coal storage yard, and associated handling and reclaiming activities. Wet suppression control (water sprays and water truck). TVA may begin cofiring wood waste with coal during this permit cycle. TVA designated emission units #4 and 5.
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Conditions E6-1 and E6-2 apply to source 01-0009-07

E6-1. Particulate matter (PM) emitted from this source shall not exceed 89.5 lb/hr.

TAPCR 1200-03-07-.02(4)

Compliance Method: Compliance with this condition is based upon the emission calculations in the application dated February 6, 2020 (pages 5-18 through 5-27). Compliance shall be assured as follows:

- (a) The water spray dust suppression system at the coal breakers shall be maintained and used as needed for fugitive dust control. The dust suppression system shall be inspected semiannually. Records documenting these inspections and any required maintenance shall be maintained at the source location and made available for inspection by the Technical Secretary or an authorized representative.
- (b) A watering truck shall be employed as necessary to control fugitive dust emissions from the coal storage yard. Compliance with this requirement shall be assured by annual certification, as required in **Condition E2-1(b)**.

E6-2. Visible emissions shall not exceed 20% opacity as specified in TAPCR 1200-03-05-.01 (aggregate count). Visible emissions from stacks will be determined by Tennessee Visible Emission Evaluation Method 2 as adopted by the Tennessee Air Pollution Control Board on August 24, 1984.

Compliance Method: Compliance with this condition shall be assured by the procedures of the Opacity Matrix Decision Tree for Visible Emission Evaluation, amended September 11, 2013 (Attachment 1).

01-0009-10	Source Description: <u>Limestone Handling:</u> Pre-ground limestone delivered by trucks over paved and unpaved roads and pneumatically conveyed to one of two 1,730-ton storage silos. Each storage silo uses a bin vent filter to control dust during the load-in operation. Wet suppression is used to reduce fugitive dust emissions on paved and unpaved roads. TVA designated emission units #9, 10, and 11.
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Conditions E7-1 through E7-5 apply to source 01-0009-10

- E7-1.** The amount of pre-ground limestone handled by this source shall not exceed 300,000 tons during any period of 12 consecutive months.

TAPCR 1200-03-09-.01(1)(d), condition 1 of construction permit 960452. PSD avoidance.

Compliance Method: Monthly records indicating the amount of pre-ground limestone handled by the source (including 12-month rolling totals) shall be maintained at the facility and kept available for inspection by the Technical Secretary or an authorized representative.

- E7-2.** Particulate matter (PM) emitted from the limestone storage silos (Vents 10-C and 11-C) shall not exceed 1.17 lb/hr (total for both vents).

TAPCR 1200-03-07-.01(5), condition 2 of construction permit 960452P. PSD avoidance.

Compliance Method: Each bin vent filter will be maintained, kept in good operating condition, and inspected semiannually to ensure compliance with the applicable particulate matter limits. Records documenting these inspections and any required maintenance shall be maintained at the source location and made available for inspection by the Technical Secretary or an authorized representative. Compliance with this condition is also based upon the emission calculations in the application dated February 6, 2020 (pages 7-16 through 7-22).

- E7-3.** Visible emissions from the silos shall not exhibit greater than 10% opacity except for one six-minute period in any one-hour period and for no more than four six-minute periods in any 24-hour period. Visible emissions from this source shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-05-.01(1), 1200-03-05-.01(3), and 1200-03-05-.03(6), condition 3 of construction permit 960452.

Compliance Method: Compliance with this condition shall be assured by the procedures of the Opacity Matrix Decision Tree for Visible Emission Evaluation, amended September 11, 2013 (Attachment 1).

- E7-4.** Fugitive emissions from this source shall be controlled as specified in Rule 1200-03-08-.01. Specifically, no person shall cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five minutes per hour or 20 minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in TAPCR 1200-03-20.

TAPCR 1200-03-08-.01

Compliance Method: Compliance with this condition shall be assured as follows:

- (a) A watering truck shall be employed as necessary for fugitive dust control on the haul roads and delivery points associated with this emission source. The permittee shall maintain the following monthly log, that contains information from the water truck driver's daily reports as they drive "Route #1" (also known as the "plant route") which includes Limestone Handling (Source 01-0009-10 under Condition E7-4), Hydrated Lime Injection System (Source 01-0009-13 under Condition E8-5), and Gypsum Handling (Source 01-0009-14 under Condition E9-4). These records must be maintained at the source location and kept available for inspection by the Technical Secretary or the authorized representative.

Table E7-4: Monthly Dust Suppression Log - Route #1*				
Month - Year		Start Time	Stop Time	Comments
Date	Wet Suppression Used (Y/N)?**			

* Route 1 (also called the "plant route" by the drivers) includes Limestone Handling (Source 01-0009-10 under Condition E7-4), Hydrated Lime Injection System (Source 01-0009-13 under Condition E8-5), and Gypsum Handling (Source 01-0009-14 under Condition E9-4).
 ** If the water truck is not used for dust suppression due to precipitation, note the amount precipitation within the last day.

(b) Compliance with this standard shall be determined by Tennessee Visible Emissions Evaluation (TVEE) Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986. These evaluations shall be made semiannually.

E7-5. Visible emissions from roads and parking areas shall not exhibit greater than 10% opacity as determined by TVEE Method 1, as adopted by the Tennessee Air Pollution Control Board on April 29, 1982 and amended on September 15, 1982 and August 24, 1984.

TAPCR 1200-03-08-.03, condition 5 of construction permit 960452

Compliance Method: Compliance with this condition shall be assured by the procedures of the Opacity Matrix Decision Tree for Visible Emission Evaluation, amended September 11, 2013 (Attachment 1).

01-0009-13	Source Description	Hydrated Lime Injection System: The hydrated lime system consists of four silos. The stated design throughput capacity of each silo is 1,500 pounds per hour (input rate for silo loading from bulk delivery trucks may be higher). Each silo has one dust collector utilized during pneumatic filling and two dust filters utilized during feed hopper filling. Ancillary equipment includes pneumatic conveying lines and blowers. Fugitive dust is generated during the delivery of the hydrated lime. TVA designated emission units #12 through 20.
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Conditions E8-1 through E8-6 apply to source 01-0009-13

E8-1. The stated design throughput capacity of each silo is 1,500 pounds per hour (excluding pneumatic loading of silos from bulk delivery trucks). The Technical Secretary may require the permittee to assure compliance with this rate.

TAPCR 1200-03-09-.01(1)(d), condition 2 of construction permit 962982

Compliance Method: Compliance with this condition is based on the information provided with the application dated February 6, 2020. The permittee shall not modify the source to increase the design capacity without first having applied for and received from the Technical Secretary a construction permit or Title V modification in accordance with TAPCR 1200-03-09. Compliance shall be assured by annual certification, as required in **Condition E2-1(b)**.

E8-2. PM emitted from this source shall not exceed the following limits:

- (a) 0.064 lb/hr from each dust collector located at top of each silo (emission points 13, 15, 17, and 19).
- (b) 0.0026 lb/hr for each dust collector located at the top of each loss-in-weight feed hopper (emission points 14, 16, 18, 20).
- (c) 0.27 lb/hr total from silos and feed hoppers listed above.

TAPCR 1200-03-07-.01(5), the agreement letter dated November 9, 2009, condition 2 of construction permit 962982

Compliance Method: Each dust collector will be maintained, kept in good operating condition, and inspected semiannually to ensure compliance with the applicable particulate matter limits. Records of the semiannual inspections and any maintenance performed shall be maintained at the source location and kept available for inspection by the Technical Secretary or an authorized representative. Compliance with this condition is also based upon the emission calculations in the application dated February 6, 2020 (pages 8-20 through 8-26).

E8-3. Hydrated lime delivered to this source shall not exceed 26,280 tons during any period of 12 consecutive months.

TAPCR 1200-03-09-.01(1)(d), conditions 3 and 4 of construction permit 962982.

Compliance Method: A log of the hydrated lime delivered, in a form that readily shows compliance with this condition, shall be maintained at the source location and kept available for inspection by the Technical Secretary or an authorized representative.

E8-4. Visible emissions from this source shall not exhibit greater than 10% opacity, except for one six-minute period in any one-hour period, and for no more than four six-minute periods in any 24-hour period. Visible emissions from this source shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-05-.03(6) and 1200-03-05-.01(1)

Compliance Method: Compliance with this condition shall be assured by the procedures of the Opacity Matrix Decision Tree for Visible Emission Evaluation, amended September 11, 2013 (Attachment 1).

E8-5. Fugitive emissions from this source shall be controlled as specified in Rule 1200-03-08-.01. Specifically, no person shall cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five minutes per hour or 20 minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in Chapter 1200-03-20. Fugitive emissions from this source shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on September 11, 2013.

TAPCR 1200-03-08-.01

Compliance Method: Compliance with this condition shall be assured as follows:

- (a) A watering truck shall be employed as necessary for fugitive dust control on the haul roads and delivery points associated with this emission source. The permittee shall maintain the following monthly log, that contains information from the water truck driver’s daily reports as they drive “Route #1” (also known as the “plant route”) which includes Limestone Handling (Source 01-0009-10 under Condition E7-4), Hydrated Lime Injection System (Source 01-0009-13 under Condition E8-5), and Gypsum Handling (Source 01-0009-14 under Condition E9-4). These records must be maintained at the source location and kept available for inspection by the Technical Secretary or the authorized representative.

Month - Year		Start Time	Stop Time	Comments
Date	Wet Suppression Used (Y/N)?**			

* Route 1 (also called the "plant route" by the drivers) includes Limestone Handling (Source 01-0009-10 under Condition E7-4), Hydrated Lime Injection System (Source 01-0009-13 under Condition E8-5), and Gypsum Handling (Source 01-0009-14 under Condition E9-4).
 ** If the water truck is not used for dust suppression due to precipitation, note the amount of precipitation within the last day.

- (b) Compliance with this standard shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986. These evaluations shall be made semiannually.

E8-6. Visible emissions from roads and parking areas shall not exhibit greater than 10% opacity as determined by Tennessee Visible Emission Evaluation Method 1, as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982 and August 24, 1984.

Compliance Method: Compliance with this condition shall be assured by the procedures of the Opacity Matrix Decision Tree for Visible Emission Evaluation, amended September 11, 2013 (Attachment 1).

TAPCR 1200-03-09-.02(11)(e)1.(iii)

01-0009-14	Source Description	<p>Gypsum Handling: Gypsum slurry is transferred to the dewatering facility from the existing flue gas desulfurization facility and routed through hydrocyclones to separate the larger gypsum particles. The overflow from the hydrocyclones is sent to a thickener to further settle the solids. The hydrocyclone and thickener underflow streams are routed to horizontal vacuum belt filters for dewatering.</p> <p>Solids are conveyed to the gypsum storage pile where they are dewatered by gravity to approximately 15% moisture content. Dry gypsum is removed from the storage pile with a front-end loader and loaded into articulated dump trucks for transfer to the on-site dry solid disposal area. Transportation of the dry gypsum is on paved road (1.4 miles round-trip) and unpaved road (1.2 miles round-trip). Fugitive dust emissions on haul roads and at the landfill are controlled using wet suppression.</p> <p>The significant emission sources for the gypsum handling system are the conveyor discharge to the storage pile, wind erosion from the storage pile, loader hauling and discharge to trucks, hauling on paved and unpaved roads, dumping at the landfill, and pile maintenance activities at the landfill. TVA designated emission unit #29.</p>
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Conditions E9-1 through E9-5 apply to source 01-0009-14

E9-1. The stated design throughput capacity of gypsum is 76,000 pounds per hour. The total amount of dewatered gypsum handled by this source shall not exceed 332,880 tons during any period of 12 consecutive months.

TAPCR 1200-03-09-.01(1)(d), conditions 4 and 5 of construction permit 966159P, and the agreement letter dated June 12, 2012.

Compliance Method: A log of the amount of dewatered gypsum handled by the facility, including the total amount of dewatered gypsum handled during each period of 12 consecutive months, shall be maintained at the source location and kept available for inspection by the Technical Secretary or an authorized representative.

Compliance with the stated design throughput capacity (pounds per hour) is based on the information provided with the application dated February 6, 2020. The permittee shall not modify the source to increase the stated design capacity without first having applied for and received from the Technical Secretary a construction permit or Title V modification in accordance with TAPCR 1200-03-09. Compliance shall be assured by annual certification, as required in **Condition E2-1(b)**.

E9-2. Particulate matter (PM), PM₁₀, and PM_{2.5} emitted from this source shall not exceed the following limits:

Pollutant	Hourly Emission Limit (lb/hr)	Annual Emission Limit (tons/year)
PM	25.83	16.65
PM ₁₀	10.04	5.673
PM _{2.5}	1.033*	0.6590*

* These limits represent BACT for PM_{2.5} emissions.

TAPCR 1200-03-07-.01(5) and 1200-03-09-.01(5)(b)2.(ii), condition 5 of construction permit 966159P

Compliance Method: The gypsum dewatering equipment and operations shall be maintained, kept in good operating condition, and inspected semiannually to ensure compliance with the applicable particulate matter limits. Records of semiannual inspections and any maintenance performed shall be maintained at the source location and kept available for inspection by the Technical Secretary or an authorized representative. Compliance with this condition is also based upon the emission calculations in the application dated February 6, 2020 (pages 9-16 through 9-24) and the recordkeeping requirements of **Condition E9-1**.

- E9-3.** Visible emissions from this source shall not exhibit greater than 10% opacity, except for one six-minute period in any one hour, and for no more than four six-minute periods in any 24-hour period. Visible emissions from this source shall be determined by EPA Permit Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-05-.01(4), condition 6 of construction permit 966159P

Compliance Method: Compliance with this condition shall be assured by the procedures of the Opacity Matrix Decision Tree for Visible Emission Evaluation, amended September 11, 2013 (Attachment 1).

- E9-4.** Fugitive emissions from this source shall be controlled as specified in Rule 1200-03-08-.01. Specifically, no person shall cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five minutes per hour or 20 minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in Chapter 1200-03-20. Fugitive emissions from this source shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986. TAPCR 1200-03-08-.01

Compliance Method: Compliance with this condition shall be assured as follows:

- (a) A watering truck shall be employed as necessary for fugitive dust control on the haul roads and delivery points associated with this emission source. The permittee shall maintain the following monthly log, that contains information from the water truck driver’s daily reports as they drive “Route #1” (also known as the “plant route”) which includes Limestone Handling (Source 01-0009-10 under Condition E7-4), Hydrated Lime Injection System (Source 01-0009-13 under Condition E8-5), and Gypsum Handling (Source 01-0009-14 under Condition E9-4). These records must be maintained at the source location and kept available for inspection by the Technical Secretary or the authorized representative.

Table E9-4: Monthly Dust Suppression Log - Route #1*				
Month - Year		Start Time	Stop Time	Comments
Date	Wet Suppression Used (Y/N)?**			

* Route 1 (also called the "plant route" by the drivers) includes Limestone Handling (Source 01-0009-10 under Condition E7-4), Hydrated Lime Injection System (Source 01-0009-13 under Condition E8-5), and Gypsum Handling (Source 01-0009-14 under Condition E9-4).
 ** If the water truck is not used for dust suppression due to precipitation, note the amount of precipitation within the last day.

- (b) Compaction shall be used as necessary on open storage piles. Compliance with this requirement shall be assured by annual certification, as required in **Condition E2-1(b)**.
- (c) Compliance with this this condition shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986. These evaluations shall be made semiannually.

- E9-5.** Visible emissions from roads and parking areas shall not exhibit greater than 10% opacity as determined by Tennessee Visible Emission Evaluation (TVEE) Method 1, as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982 and August 24, 1984.

TAPCR 1200-03-08-.03

Compliance Method: Compliance with this condition shall be assured by the procedures of the Opacity Matrix Decision Tree for Visible Emission Evaluation, amended September 11, 2013 (Attachment 1).

01-0009-19	Source Description	Coal Screening: Reclaim of Contaminated Coal: Recovered coal is conveyed to outdoor coal storage. 40 CFR 60 Subpart Y. The diesel engine associated with this source is a nonroad engine as defined at 40 CFR §89.2, and this unit is not subject to 40 CFR 60 Subpart IIII or 40 CFR 63 Subpart ZZZZ. TVA designated emission unit #30.
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Conditions E10-1 through E10-6 apply to source 01-0009-19

E10-1. The maximum stated material throughput rate for this source is 350 tons per hour of coal/clay/rock mixture.

TAPCR 1200-03-09-.02(11)(f)5.(ii)(II)I and the application dated March 20, 2019

Compliance Method: Compliance with this condition is based on the information provided with the application dated February 6, 2020. The permittee shall not modify the source to increase the design capacity without first having applied for and received from the Technical Secretary a construction permit or Title V modification in accordance with TAPCR 1200-03-09. Compliance shall be assured by annual certification, as required in **Condition E2-1(b)**.

E10-2. PM emitted from this source shall not exceed 44.2 lb/hr.

TAPCR 1200-03-07-.03(1)

Compliance Method: Compliance is based on the maximum process rate specified in **Condition E10-1** and the emission calculations included with the application dated February 6, 2020 (pages 10-11 through 10-14). Compliance with this condition shall be assured by compliance with **Conditions E10-3, E10-4, E10-5, and E10-6**. The maximum actual particulate matter emissions for this source are calculated as 1.22 lb/hr.

E10-3. This process shall comply with all applicable provisions of 40 CFR 60 Subpart Y (Standards of Performance for Coal Preparation and Operating Plants). Under the provisions of this Subpart, on and after the date on which the performance test is conducted or required to be completed under §60.8, whichever comes first, an owner or operator of any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified after April 28, 2008, must meet the requirements in §60.254(b)(1) and (b)(3), as applicable to the affected facility.

- (a) Except as provided below, the owner or operator must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10% opacity or greater.
- (b) Equipment used in the loading, unloading, and conveying operations of open storage piles are not subject to the opacity limitations of §60.254(b)(1).

TAPCR 1200-03-09-.03(8) and 40 CFR §60.254

Compliance Method: Compliance with this condition shall be assured by compliance with **Conditions E10-4, E10-5, and E10-6**. Pursuant to §60.258(b), the permittee shall report periods of excess emissions as follows: all six-minute average opacities that exceed the applicable standard. These reports shall be submitted with the Title V semiannual reports required by **Condition E2-1(a)**.

E10-4. An owner or operator of each affected facility that commenced construction, reconstruction, or modification after April 28, 2008, must conduct performance tests according to the requirements of §60.8 and the methods identified in §60.257 to demonstrate compliance with the applicable emissions standards in 40 CFR 60 Subpart Y.

For each affected facility (Coal Processing/Coal Screening Operation) subject to an opacity standard, an initial performance test must be performed. Thereafter, a new performance test must be conducted according to the following requirements, as applicable:

- (a) If any six-minute average opacity reading in the most recent performance test exceeds half the applicable opacity limit, a new performance test must be conducted within 90 operating days of the date that the previous performance test was required to be completed (§60.254(b)(2)(i)).
- (b) If all six-minute average opacity readings in the most recent performance test are equal to or less than half the applicable opacity limit, a new performance test must be conducted within 12 calendar months of the date that the previous performance test was required to be completed (§60.254(b)(2)(ii)).

40 CFR §60.255(b), §60.258(d), and TAPCR 1200-03-09-.03(8)

Compliance Method: The permittee shall submit reports of each performance test as required by **Condition E2-1(f)**.

E10-5. The owner or operator must determine compliance with the applicable opacity standards as specified in 40 CFR §60.257(a)(1) through (3).

- (a) Method 9 of 40 CFR 60 Appendix A-4 and the procedures in §60.11 must be used to determine opacity, with the following exceptions:
 - (i) The duration of this performance test shall be 1 hour (ten 6-minute averages).
 - (ii) If, during the initial 30 minutes of the performance test, all of the 6-minute average opacity readings are less than or equal to half the applicable opacity limit, then the observation period may be reduced from 1 hour to 30 minutes.
- (b) To determine opacity for fugitive coal dust emissions sources, the following additional requirements must be used.
 - (i) The minimum distance between the observer and the emission source shall be 5.0 meters (16 feet), and the sun shall be oriented in the 140-degree sector of the back.
 - (ii) The observer shall select a position that minimizes interference from other fugitive coal dust emissions sources and make observations such that the line of vision is approximately perpendicular to the plume and wind direction.
 - (iii) The observer shall make opacity observations at the point of greatest opacity in that portion of the plume where condensed water vapor is not present. Water vapor is not considered a visible emission.
- (c) A visible emissions observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met.
 - (i) No more than three emissions points may be read concurrently.
 - (ii) All three emissions points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.
 - (iii) If an opacity reading for any one of the three emissions points is within 5 percent opacity from the applicable standard (excluding readings of zero opacity), then the observer must stop taking readings for the other two points and continue reading just that single point.

40 CFR §60.257 and TAPCR 1200-03-09-.03(8)

Compliance Method: The permittee shall submit reports of each performance test as required by **Condition E2-1(f)**.

E10-6. The owner or operator of a coal preparation and processing plant that commenced construction, reconstruction, or modification after April 28, 2008, shall maintain a logbook (written or electronic) onsite and make it available upon request. The logbook shall record the following information:

- (a) The manufacturer's recommended maintenance procedures and the date and time of any maintenance and inspection activities and the results of those activities. Any variance from manufacturer recommendation, if any, shall be noted.
- (b) The amount and type of coal processed each calendar month.

40 CFR §60.258 and TAPCR 1200-03-09-.03(8)

Compliance Method: These records shall be submitted with the Title V semiannual reports required by **Condition E2-1(a)**.

END OF PERMIT NUMBER: 578012

ATTACHMENT 1

**OPACITY MATRIX DECISION TREE FOR VISIBLE EMISSION
EVALUATION BY TVEE METHODS 1 AND 2 AND EPA METHOD 9
AMENDED SEPTEMBER 11, 2013**

**Decision Tree PM for Opacity from
Nontraditional Sources (Roads and Parking Areas)
Utilizing TVEE Method 1**

Notes:

The use of Tennessee Visible Emission Evaluation (TVEE) Method 1 is only applicable where the use of the method is specified as a permit condition.

PM = Periodic Monitoring required by 1200-03-09-.02(11)(e)(1)(iii).

This Decision Tree outlines the criteria by which major sources can meet the PM requirements of Title V for demonstrating compliance with the visible emissions standard for nontraditional sources (roads and parking areas). It is not intended to determine compliance requirements for EPA's Compliance Assurance Monitoring (CAM) Rule (formerly referred to as Enhanced Monitoring – Proposed 40 CFR 64).

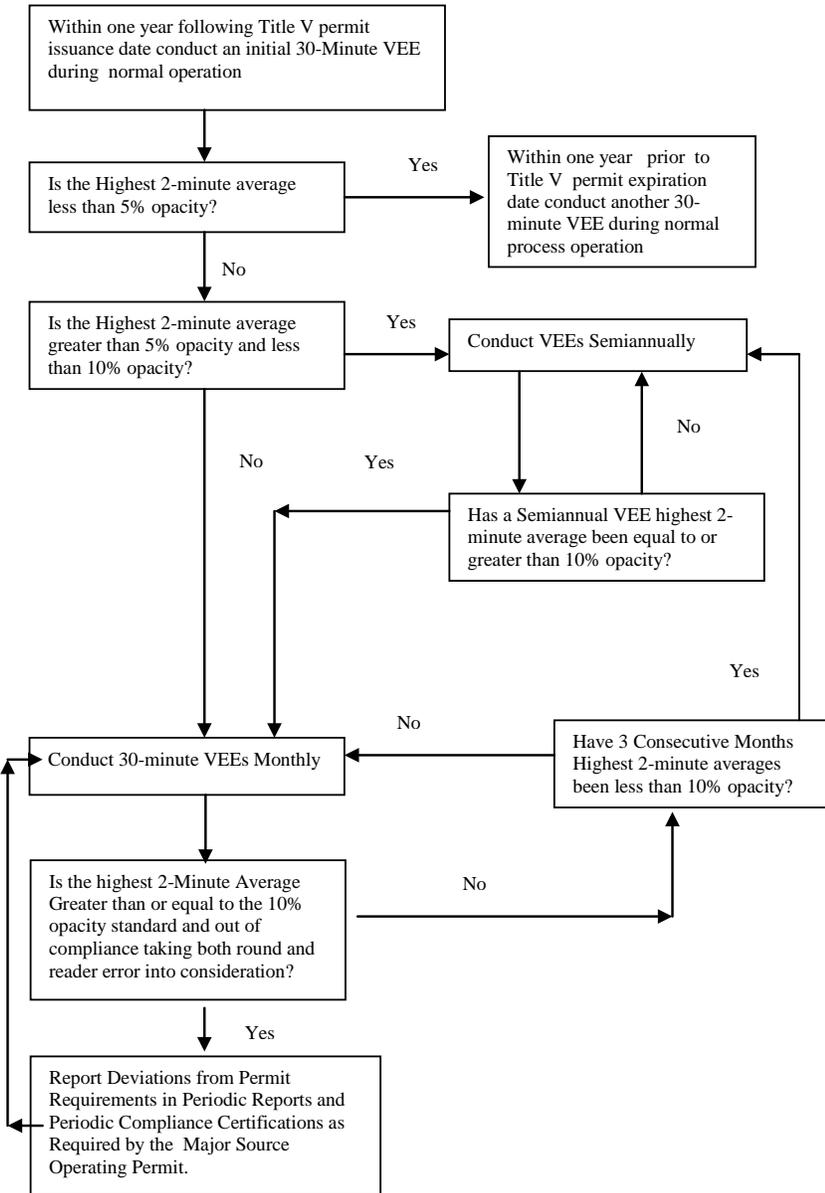
Visible Emissions Evaluations (VEEs) are to be conducted utilizing TVEE Method 1. The observer must be properly certified according to criteria specified in TVEE Method 1 to conduct Method 1 evaluations.

Initial observations are to be repeated within 90 days of startup of a modified source if a new construction permit is issued for modification of the source.

A VEE conducted by TDAPC personnel after the Title V permit is issued will also constitute an initial reading.

Reader Error
For TVEE Method 1, the TDAPC declares non-compliance when the highest two-minute average exceeds the standard plus 10% opacity for sources having this standard applied prior to August 24, 1984 or 8.8% for sources having this standard applied on or after August 24, 1984.

Dated June 18, 1996
Amended September 11, 2013



**Decision Tree PM for Opacity for
Sources Subject to Rule 1200-03-05-.01
Utilizing TVEE Method 2**

Notes:

PM = Periodic Monitoring required by 1200-03-09-.02(11)(e)(iii).

This Decision Tree outlines the criteria by which major sources can meet the periodic monitoring and testing requirements of Title V for demonstrating compliance with the visible emission standard in Rule 1200-03-05-.01. It is not intended to determine compliance requirements for EPA's Compliance Assurance Monitoring (CAM) Rule (formerly referred to as Enhanced Monitoring - Proposed 40 CFR 64).

Examine each emission unit using this Decision Tree to determine the PMT required.

Use of continuous emission monitoring systems eliminates the need to do any additional periodic monitoring.

Visible Emission Evaluations (VEEs) are to be conducted utilizing Tennessee Visible Emission Evaluation Method 2. The observer must be properly certified according to the criteria specified in EPA Method 9 to conduct TVEE Method 2 evaluations.

Typical Pollutants
Particulates, VOC, CO, SO₂, NO_x, HCl, HF, HBr, Ammonia, and Methane.

Initial observations are to be repeated within 90 days of startup of a modified source, if a new construction permit is issued for modification of the source.

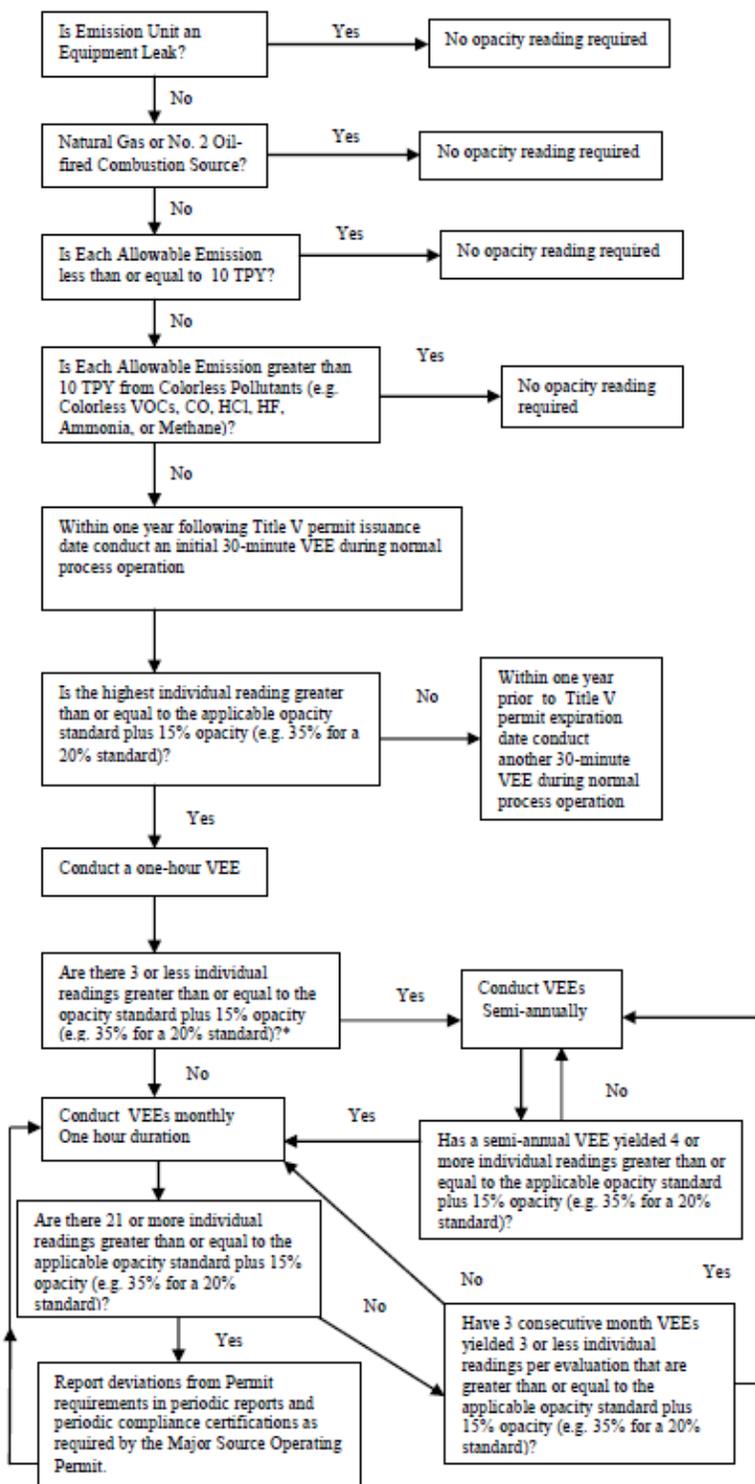
A VEE conducted by TAPCD personnel after the Title V permit is issued will also constitute an initial reading.

Reader Error
TVEE Method 2: The TAPCD declares non-compliance when 21 observations are read at the standard plus 15% opacity (e.g. 35% for a 20% standard).

*The rationale for this is the fact that Rule 1200-03-05-.01 allows for an exemption of 5 minutes (20 readings) per hour and up to 20 minutes (80 readings) per day. With 4 or more excessive individual readings per hour the possibility of a daily exceedance exists.

Note: A company could mutually agree to have all of its sources regulated by EPA Method 9. Caution: Agreement to use Method 9 could potentially place some sources in non-compliance with visible emission standards. Please be sure before you agree.

Dated June 18, 1996
Amended September 11, 2013



Decision Tree PM for Opacity for Sources Utilizing EPA Method 9*

Notes:

PM = Periodic Monitoring required by 1200-03-09-.02(11)(e)(iii).

This Decision Tree outlines the criteria by which major sources can meet the periodic monitoring and testing requirements of Title V for demonstrating compliance with the visible emission standards set forth in the permit. It is not intended to determine compliance requirements for EPA's Compliance Assurance Monitoring (CAM) Rule (formerly referred to as Enhanced Monitoring – Proposed 40 CFR 64).

Examine each emission unit using this Decision Tree to determine the PM required.*

Use of continuous emission monitoring systems eliminates the need to do any additional periodic monitoring.

Visible Emission Evaluations (VEEs) are to be conducted utilizing EPA Method 9. The observer must be properly certified to conduct valid evaluations.

Typical Pollutants
Particulates, VOC, CO, SO₂, NO_x, HCl, HF, HBr, Ammonia, and Methane.

Initial observations are to be repeated within 90 days of startup of a modified source, if a new construction permit is issued for modification of the source.

A VEE conducted by TAPCD personnel after the Title V permit is issued will also constitute an initial reading.

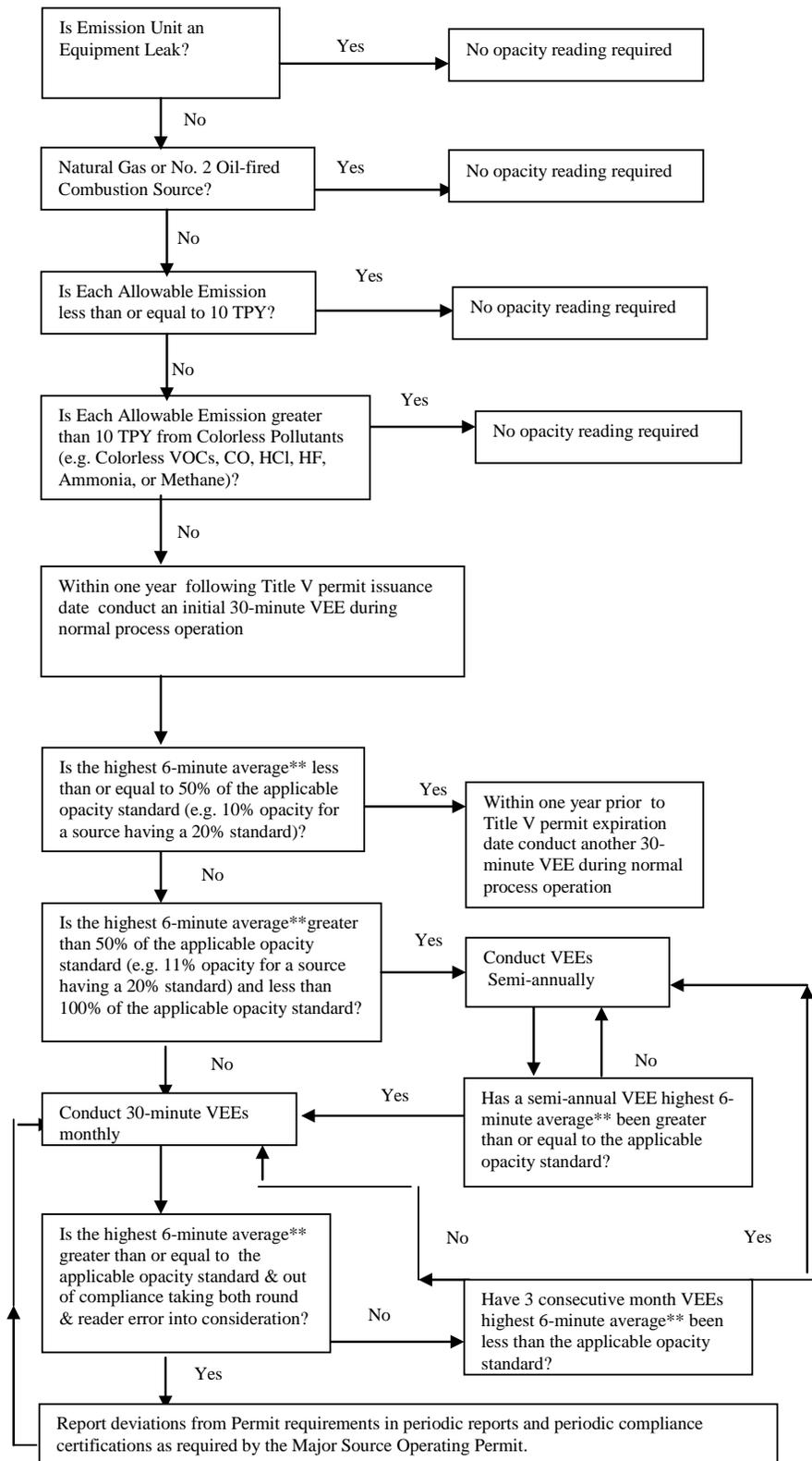
Reader Error
EPA Method 9, Non-NSPS or NESHAPS stipulated opacity standards:
The TAPCD guidance is to declare non-compliance when the highest six-minute average** exceeds the standard plus 6.8% opacity (e.g. 26.8% for a 20% standard).

EPA Method 9, NSPS or NESHAPS stipulate opacity standards:
EPA guidance is to allow only engineering round. No allowance for reader error is given.

*Not applicable to Asbestos manufacturing subject to 40 CFR 61.142

**Or second highest six-minute average, if the source has an exemption period stipulated in either the regulations or in the permit.

Dated June 18, 1996
Amended September 11, 2013



ATTACHMENT 2

NONAPPLICABLE REQUIREMENTS

**Tennessee Air Pollution Control Regulations (Division 1200-03)
Nonapplicable Requirements**

Chapter	Rule	Title/Description	Comments
1200-03-05 Visible Emission Regulations	1200-03-05-.06	Large Wood-Fired Fuel Burning Equipment	No affected units on site.
	1200-03-05-.08	Titanium Dioxide (TiO ₂) Manufacturing	
	1200-03-05-.09	Kraft Mill Recovery Furnaces	
	1200-03-05-.11	Soda Recovery Boilers	
	1200-03-05-.12	Coke Battery Underfire (combustion) Stacks	
1200-03-06 Non-Process Emission Standards	1200-03-06-.05	Wood-Fired Fuel Burning Equipment	No affected units on site.
	1200-03-06-.06	Commercial and Industrial Solid Waste Incineration Units that Commenced Construction on or Before November 30, 1999	
1200-03-07 Process Emission Standards	1200-03-07-.08	Specific Process Emission Standards	No affected units on site.
	1200-03-07-.09	Sulfuric Acid Mist	
	1200-03-07-.11	Carbon Monoxide, Electric Arc Furnaces	
	1200-03-07-.12	Carbon Monoxide, Catalytic Cracking Units	
1200-03-08 Fugitive Dust	1200-03-08-.02	Special Additional Control Area Fugitive Dust Requirements	This facility is not located in a particulate Additional Control Area.
1200-03-11 Hazardous Air Contaminants	1200-03-11-.02	Asbestos	No affected units on site.
	1200-03-11-.03	Beryllium	
	1200-03-11-.04	Mercury	
	1200-03-11-.05	Vinyl Chloride	
	1200-03-11-.06	Equipment Leaks (Fugitive Emission Sources)	
	1200-03-11-.07	Equipment Leaks (Fugitive Emission Sources) of Benzene	
	1200-03-11-.08	Reserved	
	1200-03-11-.09	Inorganic Arsenic Emissions from Glass Manufacturing Plants	
	1200-03-11-.10	Inorganic Arsenic Emissions from Primary Copper Smelters	
	1200-03-11-.11	Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities	
1200-03-14 Control of Sulfur Dioxide Emissions	1200-03-14-.03	Process Emission Standards	No affected units on site.
1200-03-16 New Source Performance Standards	1200-03-16-.01	General Provisions	TAPCR 1200-03-16 is not included in Tennessee's State Implementation Plan. Applicable rules in this chapter are State-only regulations.
	1200-03-16-.02	Fossil Fuel-Fired Steam Generating Units for Which Construction is Commenced After April 3, 1972	Applies to units constructed after April 3, 1972. Construction commenced on units at this facility in 1966. No affected units at this facility.
1200-03-16 New Source Performance Standards	1200-03-16-.03	Electric Utility Steam Generating Units for Which Construction Commenced After September 18, 1978	Applies to units constructed after September 18, 1978. Construction commenced on units at this facility in 1966. No affected units at this facility.
	1200-03-16-.04	Incinerators	No affected units on site.

**Tennessee Air Pollution Control Regulations (Division 1200-03)
Nonapplicable Requirements**

Chapter	Rule	Title/Description	Comments
1200-03-18 Volatile Organic Compounds	1200-03-18-.01	Definitions	No affected units on site.
	1200-03-18-.03	Compliance Certification, Recordkeeping, and Reporting Requirements for Coating and Printing Sources	No affected units on site.
	1200-03-18-.04	Compliance Certification, Recordkeeping, and Reporting Requirements for Non-coating and Non-printing Sources	No affected units on site.
	1200-03-18-.06	Handling, Storage, and Disposal of Volatile Organic Compounds (VOC)	No affected units on site.
	1200-03-18-.07	Source-specific Compliance Schedules	No affected units on site. Does not apply in Anderson County.
	1200-03-18-.20	Coating of Miscellaneous Metal Parts	
	1200-03-18-.24	Gasoline Dispensing Facilities - Stage I and Stage II Vapor Recovery	
	1200-03-18-.28	Petroleum Liquid Storage in External Floating Roof Tanks	
	1200-03-18-.29	Petroleum Liquid Storage in Fixed Roof Tanks	
	1200-03-18-.31	Solvent Metal Cleaning	
	1200-03-18-.79	Other Facilities That Emit Volatile Organic Compounds (VOC's)	
	1200-03-18-.80	Test Methods and Compliance Procedures: General Provisions	
	1200-03-18-.83	Test Methods and Compliance Procedures: Emission Capture and Destruction or Removal Efficiency and Monitoring Requirements	
	1200-03-18-.84	Test Methods and Compliance Procedures: Determining the Destruction or Removal Efficiency of a Control Device	
	1200-03-18-.86	Performance Specifications for Continuous Emissions Monitoring of Total Hydrocarbons	
1200-03-18-.87	Quality Control Procedures for Continuous Emission Monitoring Systems (CEMS)		
1200-03-19 Emission Standards and Monitoring Requirement for Additional Control Areas	All	Establishes that the purpose of this Chapter is to establish specific emission standards for existing air contaminant sources located in or significantly impacting upon an additional control area.	Does not apply in Anderson County
1200-03-22 Lead Emission Standards	1200-03-22-.03	Specific Emission Standard for Existing Sources of Lead	No affected units on site.
1200-03-25 Standard for Infectious Waste Incinerators	All	Compliance requirements for infectious waste incinerators.	No affected units on site.
1200-03-27 Nitrogen Oxides	1200-03-27-.03	Standards and Requirements	Does not apply to Anderson County.
	1200-03-27-.04	Standards for Cement Kilns	No affected units on site.
	1200-03-27-.07	Voluntary NO _x Emissions Reduction Program	Does not apply to sources subject to the NO _x SIP Call.
	1200-03-27-.09	Compliance Plans for NO _x Emissions from Stationary Internal Combustion (IC) Engines	No affected units on site.
1200-03-29 Light-Duty Motor Vehicle Inspection and Maintenance	1200-03-29-.01 through 1200-03-29-.10	Requirements for light-duty motor vehicle inspection and maintenance.	Does not apply to stationary sources.
1200-03-34 Conformity	1200-03-34-.01	Conformity of Transportation Plans, Programs, and Projects	Does not apply to stationary sources.

**Tennessee Air Pollution Control Regulations (Division 1200-03)
Nonapplicable Requirements**

Chapter	Rule	Title/Description	Comments
1200-03-36 Motor Vehicle Tampering	All	Prohibits any person from tampering with a motor vehicle or motor vehicle engine that is in compliance with Federal motor vehicle standards.	Does not apply to stationary sources.

**Code of Federal Regulations (CFR) Title 40
Nonapplicable Requirements**

Part	Subpart	Title/Description	Comments
52	B through QQ, SS through FFF	Approval and promulgation of implementation plans	These subparts do not apply to facilities in Tennessee
58	C through G	Ambient air quality surveillance (monitoring program requirements, networks, reporting)	These requirements apply to monitoring programs operated by air pollution control agencies.
60	Cb through Cf	Emission guidelines and compliance times for specific source categories	No affected units on site.
60	D	Fossil-Fuel Fired Steam Generators for Which Construction is Commenced after August 17, 1971	Construction commenced on units at this facility in 1966. No affected units at this facility.
60	Da	Electric Utility Steam Generating Units for Which Construction is Commenced after September 18, 1978	Construction commenced on units at this facility in 1966. No affected units at this facility.
60	Db	Industrial-Commercial-Institutional Steam Generating Units	Subpart Db applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity of greater 100 MMBtu/hr. Auxiliary Boilers 1A and 1B are > 100 MMBtu/hr but were constructed in 1966.
60	Dc	Small Industrial-Commercial-Institutional Steam Generating Units	Subpart Dc applies to each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity 100 MMBtu/hr or less, but greater than or equal to 10 MMBtu/hr. Auxiliary Boiler 1H is > 10 MMBtu/hr but was constructed in 1966.
60	E through Ja	Standards of performance for specific source categories	No affected units on site.
60	K	Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973, and Prior to May 19, 1978	The three fuel oil storage tanks associated with the auxiliary boilers were constructed prior to June 11, 1973.
60	Ka	Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978, and Prior to July 23, 1984	
60	Kb	Storage Vessels for Volatile Organic Liquids for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	
60	L through X, Z, AA through XX, AAA through XXX, AAAA through BBBB	Standards of performance for specific source categories	No affected units on site.

**Code of Federal Regulations (CFR) Title 40
Nonapplicable Requirements**

Part	Subpart	Title/Description	Comments
60	CCCC	Standards of performance for commercial and industrial solid waste incineration units	The requirements of Subpart CCCC and of any state plan established pursuant to Subpart DDDD would not apply to the combustion of traditional fuels, including cellulosic biomass, clean cellulosic biomass, and used oil that meets the requirements of 40 CFR §279.11 (see §241.2).
60	DDDD	Emission guidelines and compliance times for commercial and industrial solid waste incineration units	
60	EEEE through HHHH	Standards of performance for specific source categories	No affected units on site.
60	JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	No affected units on site.
60	KKKK	Standards of Performance for Stationary Combustion Turbines	No affected units on site.
60	LLLL through QQQQ	Standards of performance for specific source categories	No affected units on site.
60	TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	The units at this facility did not commence construction after January 8, 2014 and did not commence modification or reconstruction after June 18, 2014.
60	UUUUa	Emission Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units	Applies to State plans but does not apply directly to an affected facility. The requirements established in Tennessee's 111(d) plan will be applicable requirements upon promulgation and/or EPA approval of a State plan.
61	B through L, N through Y, BB through FF	National Emission Standards for Hazardous Air Pollutants	No affected units on site.
62	B through Z, AA through QQ, SS through ZZ, AAA through DDD	Approval and promulgation of state plans	These requirements do not apply in Tennessee
62	RR	Approval and promulgation of state plans – Tennessee	No affected units on site.
62	FFF through HHH, JJJ through LLL	Federal plan requirements for specific source categories	No affected units on site.
62	III	Federal plan requirements for commercial and industrial solid waste incineration units	Subpart III would not apply to the combustion of traditional fuels, including cellulosic biomass, clean cellulosic biomass, and used oil that meets the requirements of 40 CFR §279.11 (see §241.2).
63	F through Y, AA through NN, XX	National emission standards for hazardous air pollutants for source categories	No affected units on site.
63	OO through WW	National emission standards for tanks, containers, surface impoundments, individual drain systems, closed vent systems, equipment leaks, oil-water separators	Do not apply unless specifically referenced by another subpart of 40 CFR parts 60, 61, or 63.
63	CCC, DDD, GGG through XXX	National emission standards for hazardous air pollutants for source categories	No affected units on site.
63	EEE	National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors	This facility does not combust hazardous waste
63	AAAA through XXXX	National emission standards for hazardous air pollutants for source categories	No affected units on site.

**Code of Federal Regulations (CFR) Title 40
Nonapplicable Requirements**

Part	Subpart	Title/Description	Comments
63	YYYY	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	No affected units on site.
63	AAAAA through CCCCC, EEEEE through TTTT, WWWWW through ZZZZ	National emission standards for hazardous air pollutants for source categories	No affected units on site.
63	BBBBB, CCCCC	National emission standards for hazardous air pollutants for source categories	No affected units on site.
63	DDDDD through HHHHH	National emission standards for hazardous air pollutants for area sources	Does not apply to major sources
64	All	Compliance Assurance Monitoring	PM emissions are exempt per §64.2(b)(1) (emission limitations or standards proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Act).
67	All	EPA approval of State noncompliance penalty program	Applies to States. Does not apply directly to a regulated entity.
71	All	Federal Operating Permit Programs	State program applies
79, 80	All	Registration of Fuels and Fuel Additives	This facility is not a fuel manufacturer
81	All	Designation of areas for air quality planning	Part 81 does not directly apply to a regulated entity.
82	All	Protection of Stratospheric Ozone	No affected units on site.
85 through 95	All	Mobile sources	CAA Title II does not apply
96	A through I, AA through II, AAA through III, AAAA through IIII	NO _x Budget Trading Program, CAIR trading programs	EPA has ceased implementation and enforcement of these trading programs
97	A through I, AA through II, AAA through III, AAAA through IIII	Federal NO _x Budget Trading Program, Federal CAIR trading programs	
97	BBBBB	CSAPR NO _x Ozone Season Group 1 Trading Program	Group 2 program applies
97	DDDDD	CSAPR SO ₂ Group 2 Trading Program	Group 1 program applies
97	FFFFF	Texas SO ₂ Trading Program	Not applicable to Tennessee.

ATTACHMENT 3

CROSS-STATE AIR POLLUTION RULE REQUIREMENTS

Cross-State Air Pollution Rule (CSAPR) Trading Program Title V Requirements

Description of CSAPR Monitoring Provisions

The CSAPR subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following table(s). These unit(s) are subject to the requirements for the CSAPR NO_x Annual Trading Program, CSAPR NO_x Ozone Season Trading Programs (Group 1 and Group 2), and CSAPR SO₂ Group 1 Trading Program.

Unit ID:					
Parameter	CEMS requirements pursuant to 40 CFR part 75, Subparts B (SO ₂ monitoring) and H (NO _x monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR 75, Appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR 75, Appendix E	Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to §75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR 75 Subpart E
SO ₂	X		-----		
NO _x	X	-----			
Heat Input	X		-----		

1. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR §§97.430 through 97.435" *CSAPR NO_x Annual Trading Program*), §§97.530 through 97.535 (*CSAPR NO_x Ozone Season Group 1 Trading Program*), and §§97.630 through 97.635 (*CSAPR SO₂ Group 1 Trading Program*). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading programs.
2. Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with §§75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at <http://www.epa.gov/airmarkets/emissions/monitoringplans.html>.
3. Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR 75 Subpart E and §75.66 and §97.435, §97.535, and §97.635, as applicable. The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at <http://www.epa.gov/airmarkets/emissions/petitions.html>.
4. Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR §§97.430 through 97.434, §§97.530 through 97.534, or §§97.630 through 97.634 must submit to the Administrator a petition requesting approval of the alternative in accordance with §75.66 and §97.435, §97.535, and §97.635, as applicable. The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on EPA's website at <http://www.epa.gov/airmarkets/emissions/petitions.html>.
5. The descriptions of monitoring applicable to the unit included above meet the requirements of §§97.430 through 97.434, §§97.530 through 97.534, and §§97.630 through 97.634, as applicable, and minor permit modification procedures, in accordance with §70.7(e)(2)(i)(B) or §71.7(e)(1)(i)(B), may be used to add to or change this unit's monitoring system description.

CSAPR NO_x Annual Trading Program requirements (40 CFR 97.406)

- (a) **Designated representative requirements.** The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.
- (b) **Emissions monitoring, reporting, and recordkeeping requirements.**
 - (1) The owners and operators, and the designated representative, of each CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
 - (2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of CSAPR NO_x Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the CSAPR NO_x Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.
- (c) **NO_x emissions requirements.**
 - (1) CSAPR NO_x Annual emissions limitation.
 - (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall hold, in the source's compliance account, CSAPR NO_x Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Annual units at the source.

- (ii) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Annual units at a CSAPR NO_x Annual source are in excess of the CSAPR NO_x Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A) The owners and operators of the source and each CSAPR NO_x Annual unit at the source shall hold the CSAPR NO_x Annual allowances required for deduction under 40 CFR 97.424(d); and
 - (B) The owners and operators of the source and each CSAPR NO_x Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.
- (2) CSAPR NO_x Annual assurance provisions.
 - (i) If total NO_x emissions during a control period in a given year from all CSAPR NO_x Annual units at CSAPR NO_x Annual sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_x emissions from all CSAPR NO_x Annual units at CSAPR NO_x Annual sources in the state for such control period exceed the state assurance level.
 - (ii) The owners and operators shall hold the CSAPR NO_x Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
 - (iii) Total NO_x emissions from all CSAPR NO_x Annual units at CSAPR NO_x Annual sources in the State during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the state NO_x Annual trading budget under 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).
 - (iv) It shall not be a violation of 40 CFR part 97, subpart AAAAA or of the Clean Air Act if total NO_x emissions from all CSAPR NO_x Annual units at CSAPR NO_x Annual sources in the State during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the CSAPR NO_x Annual units at CSAPR NO_x Annual sources in the state during a control period exceeds the common designated representative's assurance level.
 - (v) To the extent the owners and operators fail to hold CSAPR NO_x Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (B) Each CSAPR NO_x Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.
- (3) Compliance periods.
 - (i) A CSAPR NO_x Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
 - (ii) A CSAPR NO_x Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
 - (i) A CSAPR NO_x Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR NO_x Annual allowance that was allocated for such control period or a control period in a prior year.
 - (ii) A CSAPR NO_x Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR NO_x Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (5) Allowance Management System requirements. Each CSAPR NO_x Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart AAAAA.
- (6) Limited authorization. A CSAPR NO_x Annual allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:
 - (i) Such authorization shall only be used in accordance with the CSAPR NO_x Annual Trading Program; and

- (ii) Notwithstanding any other provision of 40 CFR part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A CSAPR NO_x Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.

- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_x Annual allowances in accordance with 40 CFR part 97, subpart AAAAA.
- (2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
 - (i). The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each CSAPR NO_x Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart AAAAA.
 - (iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_x Annual Trading Program.
- (2) The designated representative of a CSAPR NO_x Annual source and each CSAPR NO_x Annual unit at the source shall make all submissions required under the CSAPR NO_x Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

- (1) Any provision of the CSAPR NO_x Annual Trading Program that applies to a CSAPR NO_x Annual source or the designated representative of a CSAPR NO_x Annual source shall also apply to the owners and operators of such source and of the CSAPR NO_x Annual units at the source.
- (2) Any provision of the CSAPR NO_x Annual Trading Program that applies to a CSAPR NO_x Annual unit or the designated representative of a CSAPR NO_x Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities. No provision of the CSAPR NO_x Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_x Annual source or CSAPR NO_x Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

CSAPR NO_x Ozone Season Group 1 Trading Program Requirements (40 CFR §97.506)

(a) Designated representative requirements. The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.513 through 97.518.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

- (1) The owners and operators, and the designated representative, of each CSAPR NO_x Ozone Season Group 1 source and each CSAPR NO_x Ozone Season Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.530 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.531 (initial monitoring system certification and recertification procedures), 97.532 (monitoring system out-of-control periods), 97.533 (notifications concerning monitoring), 97.534 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.535 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.530 through 97.535 shall be used to calculate allocations of CSAPR NO_x Ozone Season Group 1 allowances under 40 CFR 97.511(a)(2) and (b) and 97.512 and to determine compliance with the CSAPR NO_x Ozone Season Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.530 through 97.535 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_x emissions requirements.

- (1) CSAPR NO_x Ozone Season Group 1 emissions limitation.

- (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 1 source and each CSAPR NO_x Ozone Season Group 1 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 1 allowances available for deduction for such control period under 40 CFR 97.524(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 1 units at the source.
 - (ii) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Ozone Season Group 1 units at a CSAPR NO_x Ozone Season Group 1 source are in excess of the CSAPR NO_x Ozone Season Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 1 unit at the source shall hold the CSAPR NO_x Ozone Season Group 1 allowances required for deduction under 40 CFR 97.524(d); and
 - (B) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.
- (2) CSAPR NO_x Ozone Season Group 1 assurance provisions.
- (i) If total NO_x emissions during a control period in a given year from all CSAPR NO_x Ozone Season Group 1 units at CSAPR NO_x Ozone Season Group 1 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x Ozone Season Group 1 allowances available for deduction for such control period under 40 CFR 97.525(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.525(b), of multiplying—
 - (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and
 - (B) The amount by which total NO_x emissions from all CSAPR NO_x Ozone Season Group 1 units at CSAPR NO_x Ozone Season Group 1 sources in the state for such control period exceed the state assurance level.
 - (ii) The owners and operators shall hold the CSAPR NO_x Ozone Season Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
 - (iii) Total NO_x emissions from all CSAPR NO_x Ozone Season Group 1 units at CSAPR NO_x Ozone Season Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the State NO_x Ozone Season Group 1 trading budget under 40 CFR 97.510(a) and the state's variability limit under 40 CFR 97.510(b).
 - (iv) It shall not be a violation of 40 CFR part 97, subpart BBBBB or of the Clean Air Act if total NO_x emissions from all CSAPR NO_x Ozone Season Group 1 units at CSAPR NO_x Ozone Season Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the CSAPR NO_x Ozone Season Group 1 units at CSAPR NO_x Ozone Season Group 1 sources in the state during a control period exceeds the common designated representative's assurance level.
 - (v) To the extent the owners and operators fail to hold CSAPR NO_x Ozone Season Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (B) Each CSAPR NO_x Ozone Season Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.
- (3) Compliance periods.
- (i) A CSAPR NO_x Ozone Season Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
 - (ii) A CSAPR NO_x Ozone Season Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
- (i) A CSAPR NO_x Ozone Season Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR NO_x Ozone Season Group 1 allowance that was allocated for such control period or a control period in a prior year.

- (ii) A CSAPR NO_x Ozone Season Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR NO_x Ozone Season Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
 - (5) Allowance Management System requirements. Each CSAPR NO_x Ozone Season Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart BBBBB.
 - (6) Limited authorization. A CSAPR NO_x Ozone Season Group 1 allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:
 - (i) Such authorization shall only be used in accordance with the CSAPR NO_x Ozone Season Group 1 Trading Program; and
 - (ii) Notwithstanding any other provision of 40 CFR part 97, subpart BBBBB, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
 - (7) Property right. A CSAPR NO_x Ozone Season Group 1 allowance does not constitute a property right.
- (d) Title V permit revision requirements.**
- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_x Ozone Season Group 1 allowances in accordance with 40 CFR part 97, subpart BBBBB.
 - (2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.530 through 97.535, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).
- (e) Additional recordkeeping and reporting requirements.**
- (1) Unless otherwise provided, the owners and operators of each CSAPR NO_x Ozone Season Group 1 source and each CSAPR NO_x Ozone Season Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
 - (i). The certificate of representation under 40 CFR 97.516 for the designated representative for the source and each CSAPR NO_x Ozone Season Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.516 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart BBBBB.
 - (iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_x Ozone Season Group 1 Trading Program.
 - (2) The designated representative of a CSAPR NO_x Ozone Season Group 1 source and each CSAPR NO_x Ozone Season Group 1 unit at the source shall make all submissions required under the CSAPR NO_x Ozone Season Group 1 Trading Program, except as provided in 40 CFR 97.518. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.
- (f) Liability.**
- (1) Any provision of the CSAPR NO_x Ozone Season Group 1 Trading Program that applies to a CSAPR NO_x Ozone Season Group 1 source or the designated representative of a CSAPR NO_x Ozone Season Group 1 source shall also apply to the owners and operators of such source and of the CSAPR NO_x Ozone Season Group 1 units at the source.
 - (2) Any provision of the CSAPR NO_x Ozone Season Group 1 Trading Program that applies to a CSAPR NO_x Ozone Season Group 1 unit or the designated representative of a CSAPR NO_x Ozone Season Group 1 unit shall also apply to the owners and operators of such unit.
- (g) Effect on other authorities.** No provision of the CSAPR NO_x Ozone Season Group 1 Trading Program or exemption under 40 CFR 97.505 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_x Ozone Season Group 1 source or CSAPR NO_x Ozone Season Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

CSAPR SO₂ Group 1 Trading Program requirements (40 CFR 97.606)

- (a) Designated representative requirements.** The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.613 through 97.618.
- (b) Emissions monitoring, reporting, and recordkeeping requirements.**
 - (1) The owners and operators, and the designated representative, of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general requirements, including installation, certification, and data

accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

- (2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of CSAPR SO₂ Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO₂ Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO₂ emissions requirements.

(1) CSAPR SO₂ Group 1 emissions limitation.

- (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all CSAPR SO₂ Group 1 units at the source.
- (ii) If total SO₂ emissions during a control period in a given year from the CSAPR SO₂ Group 1 units at a CSAPR SO₂ Group 1 source are in excess of the CSAPR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:
- (A) The owners and operators of the source and each CSAPR SO₂ Group 1 unit at the source shall hold the CSAPR SO₂ Group 1 allowances required for deduction under 40 CFR 97.624(d); and
- (B) The owners and operators of the source and each CSAPR SO₂ Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(2) CSAPR SO₂ Group 1 assurance provisions.

- (i) If total SO₂ emissions during a control period in a given year from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO₂ emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—
- (A) The quotient of the amount by which the common designated representative's share of such SO₂ emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such SO₂ emissions exceeds the respective common designated representative's assurance level; and
- (B) The amount by which total SO₂ emissions from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in the state for such control period exceed the state assurance level.
- (ii) The owners and operators shall hold the CSAPR SO₂ Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
- (iii) Total SO₂ emissions from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO₂ emissions exceed the sum, for such control period, of the state SO₂ Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).
- (iv) It shall not be a violation of 40 CFR part 97, subpart CCCCC or of the Clean Air Act if total SO₂ emissions from all CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total SO₂ emissions from the CSAPR SO₂ Group 1 units at CSAPR SO₂ Group 1 sources in the state during a control period exceeds the common designated representative's assurance level.
- (v) To the extent the owners and operators fail to hold CSAPR SO₂ Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
- (A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
- (B) Each CSAPR SO₂ Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(3) Compliance periods.

- (i) A CSAPR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.
 - (ii) A CSAPR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.
 - (4) Vintage of allowances held for compliance.
 - (i) A CSAPR SO₂ Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR SO₂ Group 1 allowance that was allocated for such control period or a control period in a prior year.
 - (ii) A CSAPR SO₂ Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR SO₂ Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
 - (5) Allowance Management System requirements. Each CSAPR SO₂ Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart CCCCC.
 - (6) Limited authorization. A CSAPR SO₂ Group 1 allowance is a limited authorization to emit one ton of SO₂ during the control period in one year. Such authorization is limited in its use and duration as follows:
 - (i) Such authorization shall only be used in accordance with the CSAPR SO₂ Group 1 Trading Program; and
 - (ii) Notwithstanding any other provision of 40 CFR part 97, subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
 - (7) Property right. A CSAPR SO₂ Group 1 allowance does not constitute a property right.
- (d) Title V permit revision requirements.**
- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR SO₂ Group 1 allowances in accordance with 40 CFR part 97, subpart CCCCC.
 - (2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR part 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).
- (e) Additional recordkeeping and reporting requirements.**
- (1) Unless otherwise provided, the owners and operators of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
 - (i) The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each CSAPR SO₂ Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.
 - (ii) All emissions monitoring information, in accordance with 40 CFR part 97, subpart CCCCC.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR SO₂ Group 1 Trading Program.
 - (2) The designated representative of a CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall make all submissions required under the CSAPR SO₂ Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.
- (f) Liability.**
- (1) Any provision of the CSAPR SO₂ Group 1 Trading Program that applies to a CSAPR SO₂ Group 1 source or the designated representative of a CSAPR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO₂ Group 1 units at the source.
 - (2) Any provision of the CSAPR SO₂ Group 1 Trading Program that applies to a CSAPR SO₂ Group 1 unit or the designated representative of a CSAPR SO₂ Group 1 unit shall also apply to the owners and operators of such unit.
- (g) Effect on other authorities.** No provision of the CSAPR SO₂ Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR SO₂ Group 1 source or CSAPR SO₂ Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

CSAPR NO_x Ozone Season Group 2 Trading Program Requirements (40 CFR §97.806)

- (a) Designated representative requirements. The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.813 through 97.818.
- (b) Emissions monitoring, reporting, and recordkeeping requirements.
- (1) The owners and operators, and the designated representative, of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.830 through 97.835.
- (2) The emissions data determined in accordance with §§97.830 through 97.835 shall be used to calculate allocations of CSAPR NO_x Ozone Season Group 2 allowances under §§97.811(a)(2) and (b) and 97.812 and to determine compliance with the CSAPR NO_x Ozone Season Group 2 emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.
- (c) NO_x emissions requirements—
- (1) CSAPR NO_x Ozone Season Group 2 emissions limitation.
- (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under §97.824(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 2 units at the source.
- (ii) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Ozone Season Group 2 units at a CSAPR NO_x Ozone Season Group 2 source are in excess of the CSAPR NO_x Ozone Season Group 2 emissions limitation set forth in paragraph (c)(1)(i) of this section, then:
- (A) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold the CSAPR NO_x Ozone Season Group 2 allowances required for deduction under §97.824(d); and
- (B) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.
- (2) CSAPR NO_x Ozone Season Group 2 assurance provisions.
- (i) If total NO_x emissions during a control period in a given year from all base CSAPR NO_x Ozone Season Group 2 units at base CSAPR NO_x Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under §97.825(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with §97.825(b), of multiplying—
- (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and
- (B) The amount by which total NO_x emissions from all base CSAPR NO_x Ozone Season Group 2 units at base CSAPR NO_x Ozone Season Group 2 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level.
- (ii) The owners and operators shall hold the CSAPR NO_x Ozone Season Group 2 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period.
- (iii) Total NO_x emissions from all base CSAPR NO_x Ozone Season Group 2 units at base CSAPR NO_x Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total NO_x emissions exceed the sum, for such control period, of the State NO_x Ozone Season Group 2 trading budget under §97.810(a) and the State's variability limit under §97.810(b).
- (iv) It shall not be a violation of this subpart or of the Clean Air Act if total NO_x emissions from all base CSAPR NO_x Ozone Season Group 2 units at base CSAPR NO_x Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total NO_x emissions from the base

CSAPR NO_x Ozone Season Group 2 units at base CSAPR NO_x Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level.

- (v) To the extent the owners and operators fail to hold CSAPR NO_x Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section,
 - (A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (B) Each CSAPR NO_x Ozone Season Group 2 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.
- (3) Compliance periods.
 - (i) A CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under §97.830(b) and for each control period thereafter.
 - (ii) A base CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under §97.830(b) and for each control period thereafter.
- (4) Vintage of CSAPR NO_x Ozone Season Group 2 allowances held for compliance.
 - (i) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated or auctioned for such control period or a control period in a prior year.
 - (ii) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (c)(2)(i) through (iii) of this section for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated or auctioned for a control period in a prior year or the control period in the given year or in the immediately following year.
- (5) Allowance Management System requirements. Each CSAPR NO_x Ozone Season Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart.
- (6) Limited authorization. A CSAPR NO_x Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:
 - (i) Such authorization shall only be used in accordance with the CSAPR NO_x Ozone Season Group 2 Trading Program; and
 - (ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
- (7) Property right. A CSAPR NO_x Ozone Season Group 2 allowance does not constitute a property right.
- (d) Title V permit requirements.
 - (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_x Ozone Season Group 2 allowances in accordance with this subpart.
 - (2) A description of whether a unit is required to monitor and report NO_x emissions using a continuous emission monitoring system (under subpart H of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.830 through 97.835 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter.
- (e) Additional recordkeeping and reporting requirements.
 - (1) Unless otherwise provided, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
 - (i) The certificate of representation under §97.816 for the designated representative for the source and each CSAPR NO_x Ozone Season Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under §97.816 changing the designated representative.

- (ii) All emissions monitoring information, in accordance with this subpart.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_x Ozone Season Group 2 Trading Program.
- (2) The designated representative of a CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall make all submissions required under the CSAPR NO_x Ozone Season Group 2 Trading Program, except as provided in §97.818. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter.
- (f) Liability.
- (1) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 source or the designated representative of a CSAPR NO_x Ozone Season Group 2 source shall also apply to the owners and operators of such source and of the CSAPR NO_x Ozone Season Group 2 units at the source.
 - (2) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 unit or the designated representative of a CSAPR NO_x Ozone Season Group 2 unit shall also apply to the owners and operators of such unit.
- (g) Effect on other authorities. No provision of the CSAPR NO_x Ozone Season Group 2 Trading Program or exemption under §97.805 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_x Ozone Season Group 2 source or CSAPR NO_x Ozone Season Group 2 unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

ATTACHMENT 4

CONSENT DECREE REPORTING REQUIREMENTS

**Reporting Requirements
Appendix A of the Consent Decree**

I. Annual Reporting Requirements: On April 30 of each calendar year, TVA shall submit annual reports to EPA, the States, and the Citizen Plaintiffs electronically as required by Section III.I of the Consent Decree (Periodic Reporting). EPA, the States, and the Citizen Plaintiffs reserve the right to request such information in hard copy. Reports shall be submitted each year until conditional termination of enforcement, as provided in paragraph 214 of the Consent Decree. In such annual reports, TVA shall include the following information:

A. System-Wide Annual Tonnage Limitations for NO_x and SO₂: TVA shall report the following information:

- (1) The total actual annual tons of the pollutant emitted from each Unit or, for Units sharing a common stack, the total actual annual tons of the pollutant emitted from each combined stack, within the TVA System and any New CC/CT Units during the prior calendar year;
- (2) The total actual annual tons of the pollutant emitted from the TVA System and any New CC/CT Units during the prior calendar year;
- (3) The difference, if any, between the System-Wide Annual Tonnage Limitation for the pollutant in that calendar year and the amount reported in subparagraph (2); and
- (4) For each pollutant,
 - (a) The annual average emission rate, expressed as lb/MMBtu, for each Unit within the TVA System and any New CC/CT Units in the prior calendar year; and
 - (b) The annual average emission rate, expressed as lb/MMBtu, for the entire TVA System and any New CC/CT Units during the prior calendar year.

Data submitted pursuant to this subsection shall be based upon CEMS pursuant to Paragraphs 81 and 97 of the Consent Decree.

- (5) If TVA was subject to an adjusted System-Wide Annual Tonnage Limitation specified in Paragraphs 68 and 83 of the Consent Decree in the calendar year covered by the annual report, it shall report the following:
 - (a) The Units at which the adjusted System-Wide Annual Tonnage Limitations in Paragraphs 68 and 83 of the Consent Decree apply; and
 - (b) The adjusted aggregate System-Wide Annual Tonnage Limitation.

B. Continuous Operation of Pollution Control Technology or Combustion Controls: TVA shall report the date that it commenced Continuous Operation of each SCR, FGD, PM Control Device, SNCR, LNB, OFA, and SOFA that TVA is required to Continuously Operate pursuant to this Consent Decree in the calendar year covered by the annual report.

TVA shall report, for any SCR, FGD, PM Control Device, SNCR, LNB, OFA, and SOFA that TVA is required to Continuously Operate during the calendar year covered by the annual report, the duration of any period during which that pollution control technology or combustion control did not Continuously Operate, including the specific dates and times that such pollution control technology or combustion control did not operate, the reason why TVA did not Continuously Operate such pollution control technology or combustion control, and the measures taken to reduce emissions of the pollutant controlled by such pollution control technology or combustion control.

TVA shall include a statement in each annual report describing the actions it took to optimize the PM Control Devices as required by Paragraph 98 of the Consent Decree in the relevant calendar year.

C. Installation of NO_x, SO₂, and PM Control Devices: TVA shall report on the progress of construction (including upgrades) of SCRs and FGDs (and new PM Control Devices, if any) required by this Consent Decree including:

- (1) If construction is not underway, any available information concerning the construction schedule, including the dates of any major contracts executed during the prior calendar year, and any major components delivered during the prior calendar year;
 - (2) If construction is underway, the estimated percent of installation as of the end of the prior calendar year, the current estimated construction completion date, and a brief description of completion of significant milestones during the prior calendar year, including a narrative description of the current construction status (e.g. foundations completed, absorber installation proceeding, all material on-site, new stack erection completed, etc.);
 - (3) A list of all permits needed to construct and operate the device, the date TVA applied for such permits, and the status of the permit applications; and
 - (4) Once construction is complete, the dates the equipment was placed in service and any performance/emissions testing that was performed during the prior calendar year.
- D. **Unit Retirements:** Beginning on April 30 of the year following TVA's obligation pursuant to this Consent Decree to Retire a TVA System Unit, and continuing annually thereafter until all TVA System Units required to be Retired have been Retired, TVA shall report the date it Retired such Unit and a description of the actions TVA took to Retire such Unit within the meaning of Paragraph 51 of the Consent Decree.
- E. **Repower to Renewable Biomass:** If TVA elects the Repower to Renewable Biomass option for a TVA System Unit, in the next annual report following such election, and continuing annually thereafter, TVA shall report on the progress of its efforts to Repower such TVA System Unit including: (1) if construction is not underway, any available information concerning the construction schedule, including the dates of any major contracts executed during the prior calendar year, and any major components delivered during the prior calendar year; (2) if construction is underway, the estimated percent of installation as of the end of the prior calendar year, the current estimated construction completion date, and a brief description of completion of significant milestones during the prior calendar year, including a narrative description of the current construction status; (3) a list of all permits needed to construct and operate the Repowered Unit, the date TVA applies for such permits, and the status of the permit applications; and (4) once construction is complete, the dates the Repowered Unit was placed in service and any performance/emissions testing that was performed during the prior calendar year.
- F. **PM Emission Control Optimization Study:** Beginning on April 30 of the year following TVA's obligation to implement the EPA-approved recommendations required by Paragraph 99 of the Consent Decree, TVA shall include a statement describing how it maintained each PM Control Device in accordance with the EPA-approved PM emission control optimization study.
- G. **Reporting Requirements for NO_x and SO₂ Allowances:**
- (1) **Reporting Requirements for NO_x and SO₂ Surrendered Allowances:** TVA shall report the number of NO_x and SO₂ Allowances that were allocated to it under any programs and the number of NO_x and SO₂ Allowances surrendered pursuant to Paragraphs 75 and 91 of the Consent Decree for the prior calendar year. TVA shall include the mathematical basis supporting its calculation of NO_x and SO₂ Allowances surrendered.
 - (2) **Reporting Requirements for NO_x and SO₂ Super-Compliance Allowances:** TVA shall report any Super-Compliance NO_x or SO₂ Allowances that it generated as provided in Paragraphs 78 and 94 of the Consent Decree for the prior calendar year. TVA shall include the mathematical basis supporting its calculation of Super-Compliance NO_x or SO₂ Allowances. TVA shall also specifically identify the amount, if any, of Super-Compliance NO_x and SO₂ Allowances that TVA generated from retiring a TVA System Unit that TVA did not utilize for purposes of Paragraph 117 of the Consent Decree (New CC/CT Units).
- H. **New CC/CT Units:** TVA shall report all information necessary to determine compliance with Paragraphs 117-119 of the Consent Decree. In particular, TVA shall report whether it has applied for a minor NSR permit as described in Subparagraphs 117.b and 119.c of the Consent Decree to construct a New CC/CT Unit, and shall confirm that it timely provided a copy of the permit application to EPA, the States, and the Citizen Plaintiffs as required by Subparagraph 117.c and Paragraph 155 of the Consent Decree. TVA shall report the amount of emission reductions of NO_x and the

amount of emission reductions of SO₂ resulting from Retiring a TVA System Unit that TVA utilized as netting credits as provided in Paragraph 117. TVA shall report the amount of emission reductions of Greenhouse Gases resulting from Retiring a TVA System Unit that TVA utilized as netting credits as provided in Paragraph 119. TVA shall describe how the emissions decreases on which it is relying in order to construct a New CC/CT Unit as provided in Paragraph 117 and 119 are both contemporaneous and otherwise creditable within the meaning of the Clean Air Act and the applicable SIP. In making these demonstrations, TVA shall provide unit-by-unit explanations and calculations. TVA shall include a description of the emission limitations determined by the relevant permitting authority as described in Subparagraph 117.b, and how such emission limitations are consistent with this Consent Decree and Appendix B. TVA shall provide all relevant information, including an appropriate mathematical calculation, to demonstrate that any emission decrease upon which it relied for purposes of Paragraph 117 was not used to generate a Super-Compliance NO_x or SO₂ Allowance in the calendar year in which TVA relies upon such emission reduction and all calendar years thereafter. TVA shall provide all information necessary to determine compliance with the conditions established in Paragraphs 119.b-119.c.

- I. **NO_x, SO₂, and PM CEMS Malfunction, Repair, or Maintenance:** TVA shall report all periods when a CEMS required by this Consent Decree was not operating, including periods of monitor malfunction, repair, or maintenance in the prior calendar year.
- J. **PM CEMS Data:** In an electronic, spreadsheet format, TVA shall submit the data recorded by the PM CEMS, expressed in lb/MMBtu, on a three-hour (3-hour) rolling average basis and a twenty-four-hour (24-hour) rolling average basis, and shall include identification of each 3-hour average and 24-hour average above the 0.030 lb/MMBtu PM Emission Rate for Bull Run Unit 1, Colbert Unit 5, and Kingston Units 1-9, for the prior calendar year. If TVA locates a PM CEMS at another Unit in the TVA System pursuant to Paragraph 110 of the Consent Decree, and such Unit is also subject to a PM Emission Rate pursuant to Paragraph 100 of the Consent Decree, TVA shall also include identification of each 3-hour average exceedance for such Unit.
- K. Reserved.
- L. **PM Stack Tests & PM Emission Rates:** TVA shall submit the complete report for the stack tests performed pursuant to Paragraphs 101 and 102 of the Consent Decree in the prior calendar year. TVA shall describe at which TVA System Units, if any, TVA did not perform a stack test in the relevant calendar year. TVA shall separately identify the stack test reports for the TVA System Units subject to a PM Emission Rate under this Consent Decree.
- M. **Environmental Mitigation Projects:** TVA shall report funds disbursed to the States pursuant to Paragraphs 122-124 and 126 of the Consent Decree in the prior calendar year.
- N. Reserved.
- O. **Emission Reductions Greater than those Required Under the Consent Decree:** TVA shall report whether, in the relevant calendar year, it claimed to have achieved emission reductions at a particular TVA System Unit that are greater than those emission reductions required under this Consent Decree for the particular TVA System Unit as provided in Paragraph 116 of the Consent Decree. If TVA did not claim to have achieved emission reductions at a particular TVA System Unit that are greater than those emission reductions required under this Consent Decree, it shall so state. If TVA did, for any purpose, claim to achieve emission reductions at a particular TVA System Unit that are greater than those required under this Consent Decree for that particular TVA System Unit, TVA shall include a description of how it achieved such emission reductions, including a mathematical calculation in support of the claimed emission reductions, an explanation of how such emission reductions are greater than those required under this Consent Decree, and the manner in which such emission reductions were either relied upon or used for purposes of permitting actions, non-permitting actions, or otherwise.
- II. **Deviation Reports:** TVA shall report all deviations from the requirements of the Consent Decree that occur during the calendar year covered by the annual report, identifying the date and time that the deviation occurred, the date and time the deviation was corrected, the cause of any corrective actions taken for each deviation, if necessary, and the date that the deviation was initially reported under Paragraph 156 of the Consent Decree.
- III. **Submission Pending Review:** In each annual report, TVA shall include a list of all plans or submissions made pursuant to this Consent Decree during the calendar year covered by the annual report and all prior calendar years since the Consent Decree

Obligation Date, the date(s) such plans or submissions were submitted to EPA for review or approval, and shall identify which, if any, are still pending review and approval by EPA upon the date of the submission of the annual report.

- IV. Other Information Necessary to Determine Compliance:** To the extent that information not expressly identified herein is necessary to determine TVA's compliance with the requirements of this Consent Decree for the calendar year covered by the annual report, and such information has not otherwise been submitted, TVA shall provide such information as part of the annual report required pursuant to Section III.I (Periodic Reporting) of the Consent Decree and TVA shall provide such other information that is deemed necessary by EPA in consultation with the States.
- V. Information Previously Submitted under Title V Permitting Requirements:** In any periodic progress report submitted pursuant to the Consent Decree, TVA may incorporate by reference information previously submitted under its Title IV or Title V permitting requirements, provided that TVA attaches the Title IV and/or Title V permit report, or the relevant portion thereof, and provides a specific reference to the provisions of the Title IV and/or Title V permit report that are responsive to the information required in the periodic progress report.

ATTACHMENT 5

SUMMARY OF ACID RAIN PROGRAM MONITORING REQUIREMENTS

Pollutant	Rule Citation	Requirement
Opacity	40 CFR §75.10(a)(4); TAPCR 1200-03-30-.01(6)(b)1	Install, certify, operate, and maintain continuous opacity monitor with automated data acquisition and handling system.
Opacity	40 CFR §75.21(b); 40 CFR Part 60 Appendix B – Performance Specification 1; TAPCR 1200-03-30-.01(6)(b)1	Specifications and test procedures for opacity continuous emission monitoring systems.
Opacity	40 CFR §75.65; TAPCR 1200-03-30-.01(6)(b)1	Report excess emissions of opacity to state/local air pollution control agency in specified format.
SO ₂	40 CFR §75.10(a)(1); TAPCR 1200-03-30-.01(6)(b)1	Install, certify, operate, and maintain continuous SO ₂ monitor with automated data acquisition and handling system.
NO _x	40 CFR §75.10(a)(2); TAPCR 1200-03-30-.01(6)(b)1	Install, certify, operate, and maintain in accordance with all requirements a NO _x continuous emission monitoring system with automated data acquisition and handling system
CO ₂	40 CFR §75.10(a)(3)(i); TAPCR 1200-03-30-.01(6)(b)1	Install, certify, operate, and maintain in accordance with all requirements a CO ₂ continuous emission monitoring system with automated data acquisition and handling system for measuring and recording CO ₂ concentration, volumetric gas flow, and CO ₂ mass emissions.
Opacity, SO ₂ , NO _x , CO ₂ , Flow, and Diluent Gas Monitor	40 CFR §75.20(c); 40 CFR Part 75 Appendix A; TAPCR 1200-03-30-.01(6)(b)1	Certification Procedures and Specification and Testing Procedures
	40 CFR §75.21(a); 40 CFR Part 75 Appendix B; TAPCR 1200-03-30-.01(6)(b)1	Quality assurance and quality control requirements and procedures.
	40 CFR §75.56(a); TAPCR 1200-03-30-.01(6)(b)1	Certification, quality assurance and quality control record provisions: Record the applicable information for each certified monitor or monitoring system.
	40 CFR §75.61; TAPCR 1200-03-30-.01(6)(b)1	Notification of certification and recertification test dates - Notification not later than 45 days prior to initial certification testing and not later than 7 days prior to recertification testing.
	40 CFR §75.62; TAPCR 1200-03-30-.01(6)(b)1	Monitoring Plan - Submit monitoring plan containing information specified in §75.53 45 days prior to the certification test.
	40 CFR §75.63; TAPCR 1200-03-30-.01(6)(b)1	Certification or recertification application – Submit request containing specified information within 45 days after completing the certification test in the format specified.
	40 CFR §75.64; TAPCR 1200-03-30-.01(6)(b)1	Quarterly reports - Electronically report specified data and information quarterly including required compliance certification.
	40 CFR §75.54; TAPCR 1200-03-30-.01(6)(b)1 and 1200-03-30-.01(6)(f)	General Recordkeeping Provisions - Record all specified data and information and maintain a file of all measurements, data, reports, and other required information for 5 years from the date of each record.

ATTACHMENT 6

**AGREEMENT LETTERS DATED NOVEMBER 9, 2009,
MARCH 25, 2010, AND JUNE 12, 2012**



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

November 9, 2009

Mr. Barry Stephens, P.E., Director
Division of Air Pollution Control
Tennessee Department of Environment and Conservation
Ninth Floor, L&C Annex
401 Church Street
Nashville, Tennessee 37243

Dear Mr. Stephens:

**TENNESSEE VALLEY AUTHORITY (TVA) – BULL RUN FOSSIL PLANT -
HYDRATED LIME INJECTION SYSTEM**

Per discussions with Malcolm Butler of your staff, TVA requests the following limitations on the construction permit for the subject project:

- (1) 0.064 pounds per hour for each dust collector located at top of each silo (consisting of 25 filter cartridges).
- (2) 0.0026 pounds per hour for each dust collector (each unit consisting of two-dust filter cartridge) located at the top of each loss-in-weight feed hopper.
- (3) 0.27 pounds per hour total from the four silos and four feed hoppers listed above
- (4) Hydrated lime delivered to this source shall not exceed 26,280 tons in any 12-month period.

If you have any questions or comments, please call Steven Strunk at (423) 751-2808 in Chattanooga, Tennessee.

A handwritten signature in black ink, appearing to read 'B Fowler'.

Brian Fowler, Manager
Air Permitting and Compliance
Environmental Permitting and Compliance
5D Lookout Place

(23 pages)

APR 12 2010

01-0009

Knof



2010 MAR 30 PM 2:20

01-0009

Tennessee Valley Authority, 1265 Edgemoor Road, Clinton, Tennessee 37716-6270

March 25, 2010

Mr. Barry Stephens, P.E., Director
Division of Air Pollution Control
Tennessee Department of Environment and Conservation
9th Floor, L&C Annex
401 Church Street
Nashville, Tennessee 37243

Dear Mr. Stephens:

TENNESSEE VALLEY AUTHORITY (TVA) - BULL RUN FOSSIL PLANT (BRF) -
DRY FLY ASH HANDLING SYSTEM UPGRADE - CONSTRUCTION PERMIT
APPLICATION POINT 01-0009-06 CONPERM 963504P

TVA will be upgrading and adding redundancy to the existing dry fly ash handling system at the facility. This will involve adding an additional storage silo, upgrading the particulate controls on the existing silo and replacing the hydroveyors, which remove fly ash from the ESP, with four (4) liquid ring pumps controlled by filter separators.

As part of the subject permit application, we request limits of 0.005 gr/dscf on emissions from the vacuum pumps and storage silos and a continuation of the current permit limit on handling of dry fly ash of 449,000 tons in any 12 month period. This request is made in accordance with TAPCR 1200-03-07-.01(5).

An original application and two copies are enclosed. If you have any questions or comments, please call Steven Strunk at (423) 751-2808.

J. Scott Hambrick
Plant Manager
Bull Run Fossil Plant

Enclosures

mHB



TN. DIV. OF
AIR POLLUTION CONTROL

2012 JUN 20 AM 11: 41

Tennessee Valley Authority, 1285 Edgemoor Road, Clinton, Tennessee 37716-6270

June 12, 2012

RECEIVED

Mr. Barry Stephens, P.E. Director
Division of Air Pollution Control
Tennessee Department of Environment
and Conservation
9th Floor, L&C Annex
401 Church Street
Nashville, Tennessee 37243

Dear Mr. Stephens:

TENNESSEE VALLEY AUTHORITY (TVA) – BULL RUN FOSSIL PLANT (BRF) –
SOURCE NUMBER: 01-0009 – AGREEMENT REQUEST FOR LIMITS

TVA will be installing a system to dewater, transport and stack the bottom ash and gypsum produced at BRF. This upgrade will eliminate the pond system currently used to remove bottom ash and gypsum from sluice water. The construction application for this activity has been submitted and is dated May 8, 2012.

As part of the subject permit application, TVA request limits on the amount of dewatered bottom ash and gypsum handled to 104,244 tons and 332,880 tons, respectively, in any consecutive 12 month period. These requests are made in accordance with TAPCR 1200-03-07-.01(5).

If you have any questions or comments concerning this letter, please contact Jack Byars in Chattanooga at (423) 751-2666.

Sincerely,

David P. Ball

David P. Ball
Plant Manager
Bull Run Fossil Plant

ATTACHMENT 7

TITLE V FEE SELECTION FORM APC 36 (CN-1583)



TITLE V FEE SELECTION

Type or print and submit to the email address above.

FACILITY INFORMATION

1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)]	
2. Site name (if different from legal name)	
3. Site address (St./Rd./Hwy.)	County name
City	Zip code
4. Emission source reference number	5. Title V permit number

FEE SELECTION

This fee selection is effective beginning January 1, _____. When approved, this selection will be effective until a new Fee Selection form is submitted. Fee Selection forms must be submitted on or before December 31 of the annual accounting period.

6. Payment Schedule (choose one):

Calendar Year Basis (January 1 – December 31) Fiscal Year Basis (July 1 – June 30)

7. Payment Basis (choose one):

Actual Emissions Basis Allowable Emissions Basis Combination of Actual and Allowable Emissions Basis

8. If Payment Basis is "Actual Emissions" or "Combination of Actual and Allowable Emissions", complete the following table for each permitted source and each pollutant for which fees are due for that source. See instructions for further details.

Source ID	Pollutant	Allowable or Actual Emissions	If allowable emissions: Specify condition number and limit.
			If actual emissions: Describe calculation method and provide example. Provide condition number that specifies method, if applicable.

ATTACHMENT 8

ACID RAIN PERMIT

STATE OF TENNESSEE
AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531



PHASE II ACID RAIN PERMIT

This permit fulfills the requirements of the federal regulations promulgated at 40 CFR Parts 72, 73, 75, 76, 77, and 78. This permit is issued in accordance with the applicable provisions of Tennessee Air Pollution Control Regulations (TAPCR) 1200-03-30. The permittee has been granted permission to operate an air contaminant source in accordance with emissions limitations and monitoring requirements set forth herein.

Issue Date: July 14, 2020

Permit Number: 877418

Expiration Date: July 13, 2025

Issued By:

Tennessee Air Pollution Control Board
Tennessee Department of Environment and Conservation

Issued To:

Tennessee Valley Authority
Bull Run Fossil Plant

Installation Address:

1265 Edgemoor Road
Clinton

Emission Source Reference Number: 01-0009

ORIS/Facility Code: 3396

Acid Rain Permit Contents:

1. Statement of Basis.
2. SO₂ allowances allocated under this permit and NO_x requirements for each affected unit.
3. Standard Requirements (40 CFR §72.9 and TAPCR 1200-3-30-.01(6)).
4. Comments, notes, and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.
5. The permit application and NO_x compliance plan submitted for this source, as corrected by the Tennessee Department of Environment and Conservation. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.
6. Summary of previous actions and present action.

TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

POST AT INSTALLATION ADDRESS

1. Statement of Basis

Statutory and Regulatory Authorities: In accordance with Tennessee Code Annotated 68-201-105 and 4-5-202 and Titles IV and V of the Clean Air Act, the Tennessee Air Pollution Control Board and Tennessee Department of Environment and Conservation issue this permit pursuant to TAPCR 1200-03-30 and 1200-03-09-.02(11) and 40 CFR Part 76.

2. SO₂ Allowance Allocations and NO_x Requirements for each affected unit

		2020	2021	2022	2023	2024
	SO₂ allowances under Tables 2, 3, or 4 of 40 CFR Part 73	25,090	25,090	25,090	25,090	25,090
Unit 1	NO_x limit	<p>Pursuant to 40 CFR Part 76, the Tennessee Department of Environment and Conservation approves the NO_x emissions averaging plan for this unit dated April 5, 2019. This unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation (ACEL) of 0.35 lb/MMBtu. In addition, this unit shall not have an annual heat input greater than 3,836,292 MMBtu.</p> <p>The actual Btu-weighted annual average NO_x emissions rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emissions rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emissions limitations under 40 CFR §76.5, §76.6, or §76.7, except that for any early election units, the applicable emissions limitations shall be under 40 CFR §76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR §76.11(d)(1)(ii)(A)) is met for a year, then this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.</p> <p>In accordance with 40 CFR §72.40(b)(2), approval of the averaging plan shall be final only when the Kentucky Department for Environmental Protection and Memphis-Shelby County Health Department have also approved the averaging plan.</p> <p>In addition to the described NO_x compliance plan, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NO_x compliance plan and requirements covering excess emissions.</p>				

3. Standard Requirements (40 CFR §72.9 and TAPCR 1200-03-30-.01(6)): Included with permit application (see Attachment).

4. Comments, Notes, and Justifications: Affected unit is one coal fired boiler.

5. Permit Application and NO_x Compliance Plan: Attached.

6. Summary of Previous Actions and Present Action:

Previous Actions:

1. Draft permit, including SO₂ compliance plan, issued for public comment: **August 5, 1997**
2. SO₂ portion of permit finalized and issued: **November 10, 1997**
3. Permit revised to include a draft NO_x Emissions Early Election Compliance Plan for Units 1, 2, 3, and 4, issued for public comment on the NO_x portion only: **October 8, 1998**
4. NO_x portion of permit finalized and issued: **April 1, 1999**
5. Permit, revised to include a draft NO_x Averaging Plan for Unit 1, issued for public comment on the NO_x portion only: **February 20, 2001**
6. Draft renewal permit 863260 issued for public comment: **April 22, 2010**
7. Renewal permit 863260 finalized and issued: **June 7, 2010**
8. Draft renewal permit 869161 issued for public comment: **April 21, 2015**

9. Renewal permit 869161 finalized and issued: **August 7, 2015**

Present Action:

10. Draft renewal permit issued for public comment: **May 25, 2020**
11. Renewal permit 877418 finalized and issued: **July 14, 2020**

Attachment:
**Acid Rain Permit Application and
NO_x Compliance Plan**

TITLE V PERMIT STATEMENT

Company	Tennessee Valley Authority
Facility Name:	Tennessee Valley Authority – Bull Run Fossil Plant
City:	Clinton
County:	Anderson

Date Application Received:	February 6, 2020
Date Application Deemed Complete:	February 6, 2020

Emission Source Reference No.:	01-0009
Permit No.:	578012

INTRODUCTION

This narrative is being provided to assist the reader in understanding the content of the attached Title V operating permit. This Title V Permit Statement is written pursuant to Tennessee Air Pollution Control Rule 1200-03-09-.02(11)(f)1.(v). The primary purpose of the Title V operating permit is to consolidate and identify existing state and federal air requirements applicable to Tennessee Valley Authority - Bull Run Fossil Plant and to provide practical methods for determining compliance with these requirements. The following narrative is designed to accompany the Title V Operating Permit. It initially describes the facility receiving the permit, then the applicable requirements and their significance, and finally the compliance status with those applicable requirements. This narrative is intended only as an adjunct for the reviewer and has no legal standing. Any revisions made to the permit in response to comments received during the public participation process will be described in an addendum to this narrative.

Acronyms

PSD - Prevention of Significant Deterioration
NESHAP - National Emission Standards for Hazardous Air Pollutants
NSPS - New Source Performance Standards
MACT - Maximum Achievable Control Technology
NSR - New Source Review

I. Identification Information

A. Source Description

Emission Source Number	Description
01-0009-01	Coal-Fired Boiler
01-0009-02, 03, 04	Auxiliary Boilers 1A, 1B, and 1H
01-0009-06	Ash Handling
01-0009-07	Coal Handling
01-0009-10	Limestone Handling
01-0009-13	Hydrated Lime Injection System
01-0009-14	Gypsum Handling
01-0009-19	Coal Screening Operation

B. Facility Classification

1. Attainment or Non-Attainment Area Location: The facility is located in an attainment/maintenance area (Anderson County) for the annual and 24-hour PM_{2.5} standards and the 8-hour ozone standard.
2. This facility is located in a Class II area.

C. Regulatory Status

1. PSD/NSR: This facility is a major source for PSD.
2. Title V Major Source Status by Pollutant

Pollutant	Is the pollutant emitted?	If emitted, what is the facility's status? (Major Source or Non-Major Source)
PM	Yes	Major Source
PM ₁₀	Yes	Major Source
PM _{2.5}	Yes	Major Source
SO ₂	Yes	Major Source
VOC	Yes	Major Source
NO _x	Yes	Major Source
CO	Yes	Major Source
Individual HAP	Yes	Major Source
Total HAPs	Yes	Major Source
CO _{2e}	Yes	Major Source

3. MACT Standards for Sources contained in this Title V Permit: 40 CFR 63 Subparts DDDDD and UUUUU. 40 CFR 63 Subpart ZZZZ applies to insignificant emergency engines at this facility.
4. Program Applicability: Are the following programs applicable to the facility?

PSD: Yes
NESHAP: Yes
NSPS: Yes (Subparts Y and IIII)

D. Permitting Activities since Original Permit Issuance: see below.

E. Permit Renewal Changes: see below.

II. Compliance Information

A. Compliance Status

Is this portion of the facility currently in compliance with all applicable requirements? yes

Are there any applicable requirements that will become effective during the permit term? yes (updates to 40 CFR 63 Subpart UUUUU reporting requirements)

III. Other Requirements

A. Emissions Trading: This facility is involved in several emissions trading programs (Acid Rain Program, Transport Rule, SO₂ and NO_x trading programs).

B. Acid Rain Requirements: This facility is subject to the requirements in Title IV of the Clean Air Act.

C. Prevention of Accidental Releases: This facility is subject to the accidental release requirements of Section 112(r) of the Clean Air Act.

IV. Public Participation Procedures

Notification of this draft permit was mailed to the following environmental agencies:

1. EPA
2. North Carolina Department of Environment and Natural Resources
3. Kentucky Department for Environmental Protection
4. Knox County Health Department, Division of Air Quality Management
5. Virginia Department of Environmental Quality

ADDENDUM TO TITLE V PERMIT STATEMENT: PUBLIC COMMENTS

Company	Tennessee Valley Authority
Facility Name:	Tennessee Valley Authority – Bull Run Fossil Plant
City:	Clinton
County:	Anderson

Date Application Received:	February 6, 2020
Date Application Deemed Complete:	February 6, 2020

Emission Source Reference No.:	01-0009
Permit No.:	578012

Date of Public Notice:	*****
Date of Public Hearing:	*****

The public notice for this permit will be placed in the legal section of the *Oak Ridger*. Any comments received during the public comment period will be noted here.

01-0009: Changes Made in Title V Renewal Permit 578012 (Pending)

Condition	Change (Title V Renewal Permit)																		
All sections	Updated all rule citations from “Tenn. Comp. R. & Regs.” (Tennessee Comprehensive Rules & Regulations) to “TAPCR” (Tennessee Air Pollution Control Regulations) based on revised guidance.																		
Multiple	Changed “Technical Secretary or his authorized representative” to “Technical Secretary or an authorized representative...”																		
A19	Renumbered Condition A20 of old permit to A19.																		
B5	Renumbered old B5(d) to B5(c) and old B5(e) to B5(d) (old B5(c) was a placeholder condition that was marked as “Reserved”).																		
B6	Updated address for ACC submittal to reference Section E of the permit.																		
Section E	All requirements for records retention (i. e., 5-year retention of records) were consolidated into condition E2-1(c), and recordkeeping all data entry requirements were consolidated into Condition E2-2. This language was removed from all other permit conditions to minimize redundancy, but both requirements remain in the permit and are enforceable.																		
Section E	Permit sections were renumbered as follows: <table border="1" data-bbox="514 544 1774 690" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Old Permit Section</th> <th>New Permit Section</th> </tr> </thead> <tbody> <tr> <td>E2 through E8</td> <td>E2 through E8</td> </tr> <tr> <td>E9</td> <td>Deleted in renewal</td> </tr> <tr> <td>E10</td> <td>E9</td> </tr> <tr> <td>E11</td> <td>E10</td> </tr> </tbody> </table>	Old Permit Section	New Permit Section	E2 through E8	E2 through E8	E9	Deleted in renewal	E10	E9	E11	E10								
Old Permit Section	New Permit Section																		
E2 through E8	E2 through E8																		
E9	Deleted in renewal																		
E10	E9																		
E11	E10																		
E1	Updated fee emissions and standard language.																		
Section E2	Permit conditions were renumbered as follows: <table border="1" data-bbox="514 820 1774 1079" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Old Permit Condition</th> <th>New Permit Condition</th> </tr> </thead> <tbody> <tr> <td>E2-1 through E2-5</td> <td>E2-1 through E2-5</td> </tr> <tr> <td>E2-6</td> <td>Deleted in renewal</td> </tr> <tr> <td>E2-7</td> <td>E2-6</td> </tr> <tr> <td>E2-8</td> <td>E2-7</td> </tr> <tr> <td>E2-9</td> <td>E2-8</td> </tr> <tr> <td>E2-10</td> <td>E2-9</td> </tr> <tr> <td>E2-11</td> <td>E2-10</td> </tr> <tr> <td>N/A (new condition)</td> <td>E2-11</td> </tr> </tbody> </table>	Old Permit Condition	New Permit Condition	E2-1 through E2-5	E2-1 through E2-5	E2-6	Deleted in renewal	E2-7	E2-6	E2-8	E2-7	E2-9	E2-8	E2-10	E2-9	E2-11	E2-10	N/A (new condition)	E2-11
Old Permit Condition	New Permit Condition																		
E2-1 through E2-5	E2-1 through E2-5																		
E2-6	Deleted in renewal																		
E2-7	E2-6																		
E2-8	E2-7																		
E2-9	E2-8																		
E2-10	E2-9																		
E2-11	E2-10																		
N/A (new condition)	E2-11																		
E2-1	Updated reporting requirements. Removed quarterly reporting for SO ₂ and opacity (these reports are submitted with the semiannual report in the new permit). Added records retention requirements to E2-1(c), MATS reporting to E2-1(d), Boiler MACT reporting to E2-1(e), and NSPS Subpart Y reporting to E2-1(f). Updated MATS reporting to add future requirements (on and after 1/1/2024).																		
E2-2	Updated recordkeeping data entry requirements to include records that are not daily, weekly, or monthly.																		
E2-5, Attachment 4	Added Consent Decree reporting requirements.																		
E2-6 (old permit)	Removed MACT shell condition for MATS and Boiler MACT.																		

01-0009: Changes Made in Title V Renewal Permit 578012 (Pending)

Condition	Change (Title V Renewal Permit)
E2-7	Updated Responsible Official.
E2-8, Attachment 2	Updated the current list of nonapplicable requirements.
E2-9, Attachments 5 and 7	Added Acid Rain Program general monitoring and reporting requirements. Updated Attachment 7 by adding the current Acid Rain permit.
E2-11	Added requirements for VOC and NO _x annual emission statement.
E3-2	Removed language allowing combustion of off-spec oil, nonhazardous solvents, and oil-contaminated soil and absorbent material. Updated recordkeeping requirements for used oil to reference MATS and 40 CFR 279.
E3-3	Updated compliance method to reference MATS recordkeeping
E3-4	Updated compliance method to require implementation of the recommendations of the PM optimization study required by the Consent Decree. Updated PM CEMS requirements to reflect that the PM CEMS has been installed.
E3-6, E3-10	Updated 95% operational availability requirement for quarterly basis to semiannual basis.
E3-13	Deleted the requirement for quarterly reports to be submitted 30 days after the end of the calendar quarter (CEMS/COMS reports will be submitted with the Title V semiannual reports).
E3-14, Attachment 3	Updated to reflect current CSAPR requirements (removed old CSAPR NO _x Ozone Season Trading Program and added current CSAPR NO _x Ozone Season Group 2 Trading Program).
E3-15	Deleted "Beginning on June 13, 2011 and continuing thereafter..." Added a compliance method (annual certification).
E3-17	Added emission limits and compliance requirements for 40 CFR 63 Subpart UUUUU (MATS).
Section E4	Updated the source description to match the application.
E4-1	Updated the wording of the compliance method for the PM emission limit (no substantive changes) and added a statement that compliance is based on annual certification.
E4-2	Updated the wording of the compliance method for the SO ₂ emission limit, updated the SO ₂ emission factor based on revised fuel oil sulfur content (changed from 0.5% to 0.0015%), and added a statement that compliance is based on annual certification.
E4-4	Added emission limits and compliance requirements for 40 CFR 63 Subpart DDDDD (Boiler MACT).
Section E5	Combined fly ash and bottom ash handling operations into a single emission source (01-0009-05) by moving bottom ash handling operations from 01-0009-14 (source 14 now consists of gypsum handling operations only).
E5-1	Added design throughput capacity of bottom ash handling operations and added a compliance method (annual certification).
E5-2, Attachment 4 (old permit), Attachment 8 (old permit)	Added PM emission limits, annual throughput limits, and associated recordkeeping requirements for bottom ash handling. Updated the compliance method by adding a reference to the emission calculations included in the application and deleted Attachments 4 and 8 of the old permit ¹ .
Section E6	Updated source description to indicate that TVA may begin co-firing wood waste this permit cycle.

¹ Multiple attachments containing emission calculations were deleted from the renewal permit. These attachments were useful prior to the adoption of PDF applications but are now redundant (i. e., the same information is readily available in the application which is available electronically on the TDEC APC Dataviewer).

01-0009: Changes Made in Title V Renewal Permit 578012 (Pending)

Condition	Change (Title V Renewal Permit)												
E6-1, Attachment 3 (old permit)	Updated the PM emission limit by removing the grain loading standard (there is no stack associated with this source, so the grain loading standard would not apply). Added a statement that compliance with the requirement to use a watering truck on paved and unpaved roads would be assured by annual certification. Updated the compliance method by adding a reference to the emission calculations included in the application and deleted Attachment 3 of the old permit.												
Section E7	Updated the source description to add TVA's designated emission unit numbers (TVA's emission points are a useful cross-reference to the flow diagram included in the application).												
E7-1	Updated the compliance method to clarify that 12-month rolling total recordkeeping is required for limestone handling and added "PSD avoidance" to the underlying requirement (uncontrolled fugitives associated with construction permit 960542 would have exceeded PSD significance thresholds).												
E7-2, Attachment 5 (old permit)	Updated the underlying applicable requirement to reference construction permit 960452. Updated the compliance method to add "Records documenting these inspections and any required maintenance shall be maintained at the source location and made available for inspection by the Technical Secretary or an authorized representative." Added a reference to the emission calculations included in the application and deleted Attachment 5 of the old permit.												
E7-3	Updated the underlying applicable requirement to reference construction permit 960452.												
E7-4, E8-5, E9-4	Added recordkeeping for the use of dust suppression on paved and unpaved roads.												
E8-1	Added a compliance method (annual certification).												
Section E8	Permit conditions were renumbered as follows: <table border="1" data-bbox="514 678 1780 852" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th align="center">Old Permit Condition</th> <th align="center">New Permit Condition</th> </tr> </thead> <tbody> <tr> <td align="center">E8-1, E8-2, E8-3</td> <td align="center">E8-1, E8-2, E8-3</td> </tr> <tr> <td align="center">E8-4</td> <td align="center">Deleted in renewal (combined with E8-3)</td> </tr> <tr> <td align="center">E8-5</td> <td align="center">E8-4</td> </tr> <tr> <td align="center">E8-6</td> <td align="center">E8-5</td> </tr> <tr> <td align="center">E8-7</td> <td align="center">E8-6</td> </tr> </tbody> </table>	Old Permit Condition	New Permit Condition	E8-1, E8-2, E8-3	E8-1, E8-2, E8-3	E8-4	Deleted in renewal (combined with E8-3)	E8-5	E8-4	E8-6	E8-5	E8-7	E8-6
Old Permit Condition	New Permit Condition												
E8-1, E8-2, E8-3	E8-1, E8-2, E8-3												
E8-4	Deleted in renewal (combined with E8-3)												
E8-5	E8-4												
E8-6	E8-5												
E8-7	E8-6												
E8-2, Attachment 6 (old permit)	Added emission point ID numbers to PM emission limits. Added a reference to the emission calculations included in the application and deleted Attachment 6 of the old permit.												
E8-3, E8-4 (old permit)	Combined the hydrated lime throughput limit and associated recordkeeping into a single condition (E8-3).												
Section E9 (old permit)	Section E9 was deleted from the renewal. The emergency engines associated with this source are insignificant emissions units subject to the general requirements in Section D (comply with NSPS IIII or JJJJ and/or MACT ZZZZ).												

01-0009: Changes Made in Title V Renewal Permit 578012 (Pending)

Condition	Change (Title V Renewal Permit)														
Section E9	Updated the source description to remove bottom ash handling (moved to Section E5). Permit conditions were renumbered as follows: <table border="1" data-bbox="514 228 1776 431" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Old Permit Condition</th> <th>New Permit Condition</th> </tr> </thead> <tbody> <tr> <td>E10-1, E10-2</td> <td>Deleted in renewal (moved to Section E5)</td> </tr> <tr> <td>E10-3</td> <td>E9-1</td> </tr> <tr> <td>E10-4</td> <td>E9-2</td> </tr> <tr> <td>E10-5</td> <td>E9-3</td> </tr> <tr> <td>E10-6</td> <td>E9-4</td> </tr> <tr> <td>E10-7</td> <td>E9-5</td> </tr> </tbody> </table>	Old Permit Condition	New Permit Condition	E10-1, E10-2	Deleted in renewal (moved to Section E5)	E10-3	E9-1	E10-4	E9-2	E10-5	E9-3	E10-6	E9-4	E10-7	E9-5
Old Permit Condition	New Permit Condition														
E10-1, E10-2	Deleted in renewal (moved to Section E5)														
E10-3	E9-1														
E10-4	E9-2														
E10-5	E9-3														
E10-6	E9-4														
E10-7	E9-5														
E9-1	Combined design input capacity, annual gypsum throughput limit, and associated recordkeeping into a single condition.														
E9-2, Attachment 8 (old permit)	Added a reference to the emission calculations included in the application and deleted Attachment 8 of the old permit.														
E9-3	Added a compliance method for visible emissions (Method 9 readings as required by the opacity matrix).														
E9-4	Added a requirement to use roller compaction as necessary to control fugitive emissions from the open storage pile (this is a control measure listed in the application). Added a statement that compliance with the requirement to use roller compaction would be assured by annual certification.														
E10-1	Updated compliance method for design capacity requirement and added a statement that compliance would be assured by annual certification.														
E10-2	Added a reference to the emission calculations included in the application.														
E10-4	Moved NSPS reporting requirements from E10-4(c) to Condition E2-1.														
E10-6	Added a requirement to submit records in the Title V semiannual reports.														