PUBLIC NOTICE

Tennessee Valley Authority-Brownsville Combustion Turbine Plant has applied to the Tennessee Department of Environment and Conservation, Division of Air Pollution Control for a significant modification to 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. However, it should be noted that this facility has a current major source operating permit.

The applicant is Tennessee Valley Authority-Brownsville Combustion Turbine Plant with a site address of 948 Beach Grove Road, Brownsville, TN. They have applied for a significant modification to their existing major source operating permit (572889). The proposed modification would incorporate changes made under PSD construction permit (976987) issued by Division of Air Pollution Control. This significant modification is conducted pursuant to Tennessee Air Pollution Control Regulations 1200-03-09-.02(11)(f)(5)(iv). Only the portions of the major source operating permit affected by the significant modification are open to comment during the notice period.

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:

- Jackson Environmental Field Office 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

Electronic copies of the draft permit and application materials are available by accessing the TDEC internet site located at:


Questions concerning the source(s) may be addressed to Sarosh Kaiser at (615) 532-0585 or by e-mail at sarosh.kaiser@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 August 7, 2022. 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.
STATE OF TENNESSEE
AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243

Significant Modification #1 to 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: December 27, 2018

Date of Significant Modification #1: DRAFT

Date Expires: December 26, 2023

Permit Number: 572889

Issued To: Tennessee Valley Authority – Brownsville Combustion Turbine Plant

Installation Address: 948 Beach Grove Road

Brownsville

Installation Description: Electric Power Generation Facility

01: Four Natural Gas-fired Simple-cycle Combustion Turbines with One 10.6 MMBtu/hr Fuel Heater

Facility ID: 38-0068

Renewal Application Due Date: Between March 31, 2023, and June 29, 2023

Primary SIC: 49

Information Relied Upon:

Renewal application dated June 29, 2017
Letters dated May 6, 2018, and July 9, 2018
Significant Modification request dated July 01, 2021

(continued on the next page)

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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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(ii) 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 (1) 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 (NOx), 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)(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)(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)(iii)
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(SM1). **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)(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(SM1). 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)III

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(SM1). 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 US EPA Region IV 61 Forsyth Street, SW Atlanta, Georgia 30303 |

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 twenty-four (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

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 twenty (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 twenty (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 twenty (20) percent for an aggregate of more than five (5) minutes in any one (1) hour or more than twenty (20) minutes in any twenty-four (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 twenty (20) percent (6-minute average) except for one six minute period per one (1) hour of not more than forty (40) percent opacity. Sources constructed or modified after July 7, 1992 shall utilize 6-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(SM1). **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 (5) minutes per hour or twenty (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 the 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**

<table>
<thead>
<tr>
<th>REGULATED POLLUTANTS</th>
<th>ALLOWABLE EMISSIONS (tons per AAP)</th>
<th>ACTUAL EMISSIONS (tons per AAP)</th>
<th>COMMENTS</th>
</tr>
</thead>
</table>
| PARTICULATE MATTER (PM) | 121.6 | AEAR | Filterable only. Included in PM$_{10}$.
| PM$_{10}$ | 421.8 | AEAR | Includes all fee emissions.
| SO$_2$ | 51.0 | AEAR | Includes all fee emissions.
| VOC | 373 | AEAR | Includes all fee emissions.
| NO$_x$ | 1,720 | AEAR | Includes all fee emissions.

**CATEGORY OF MISCELLANEOUS HAZARDOUS AIR POLLUTANTS (HAP WITHOUT A STANDARD)**

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<thead>
<tr>
<th>VOC FAMILY GROUP</th>
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<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>NON-VOC GASEOUS GROUP</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>PM FAMILY GROUP</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**CATEGORY OF SPECIFIC HAZARDOUS AIR POLLUTANTS (HAP WITH A STANDARD)**

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<td>N/A</td>
</tr>
<tr>
<td>PM FAMILY GROUP</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**CATEGORY OF NSPS POLLUTANTS NOT LISTED ABOVE**

| EACH NSPS POLLUTANT NOT LISTED ABOVE | N/A | AEAR |

**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 modification issuance began January 1, 2022, and ends December 31, 2022. The next Annual Accounting Period begins January 1, 2023, and ends December 31, 2023, 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 an attachment 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.
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, NOₓ 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 NOₓ 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**

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

E2(SM1). Reporting requirements.

(a) Semiannual reports. Semiannual reports shall cover the six-month periods from January 1 to June 30 and July 1 to December 31 and shall be submitted within 60 days after the end of each six-month reporting period.

These semiannual reports shall include:

(1) Any monitoring and recordkeeping required by Conditions E3-11, E4-1, E4-4, E4-5, E4-6, E4-8, E4-11, E4-12, and E4-15, of this permit. Except for Condition E4-12, a summary report of this data is acceptable provided there is sufficient information to enable the Technical Secretary to evaluate compliance. For E4-12, excess emissions must be reported for all periods of unit operation, including startup, shutdown, and malfunction, in accordance with sections §60.7(c) and §60.334(j).
(2) The visible emission evaluation readings from Conditions E3-1 of this permit, if required. However, 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 periods from July 1 to June 30 of each calendar year and shall be submitted within 60 days after the 12-month reporting period.

These certifications shall be submitted to:  **TN APCD and EPA**

Division of Air Pollution Control and Air Enforcement Branch
Jackson Environmental Field Office
1625 Hollywood Drive
Jackson, Tennessee 38305

OR
APC.JackEFO@tn.gov

Air EPA Region IV
61 Forsyth Street, SW
Atlanta, Georgia 30303

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)

(e) **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

**E3. General Permit Requirements**

E3-1. Unless otherwise specified, visible emissions from this facility shall not exhibit greater than 20% 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 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) and 1200-03-05-.03(6)

**Compliance Method:** The permittee shall assure compliance with the opacity standard by utilizing the opacity matrix dated June 18, 1996 (amended on September 11, 2013) that is enclosed as **Attachment 1**. Reports and certifications shall be submitted in accordance with **Condition E2** of this permit.
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.

E3-2(SM1). The permittee shall maintain and repair the emission source, associated air pollution control device(s), and compliance assurance monitoring equipment as required to maintain and assure compliance with the specified emission limits.

TAPCR 1200-03-09-.03(8)

Compliance Method: Records of all repair and maintenance activities required above shall be recorded in a suitable permanent form and kept available for inspection by the Division. The date each maintenance and repair activity began shall be entered in the log no later than 30 days following the start of the repair or maintenance activity, and the completion date shall be entered in the log no later than 30 days from activity completion.

E3-3(SM1). 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) This facility is subject to the provisions of the Acid Rain permit No. 877417 as specified in Attachment 2 of this permit.

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

E3-4. Cross-State Air Pollution Rule (CSAPR) Requirements

The permittee shall comply with the applicable provisions of 40 CFR 97 Subparts AAAAA (CSAPR NOX Annual Trading Program), CCCCC (CSAPR SO2 Group 1 Trading Program), and EEEEE (CSAPR NOX Ozone Season Group 2 Trading Program). CSAPR general requirements are included in Attachment 5.


E3-5. Upon the malfunction/failure of any emission control device(s) serving this source, the operation of the process(s) served by the device(s) shall be regulated by Chapter 1200-03-20 of the Tennessee Air Pollution Control Regulations.

E3-6. Accidental release plan. The permittee is not required to file an accidental release plan pursuant to Section 112(r) of the Clean Air Act and 1200-03-32 of the TAPCR.

E3-7. Compliance Assurance Monitoring (CAM) plan: The pollutant specific emissions units included in this permit do not use a control device, as defined in 40 CFR §64.1, to achieve compliance with an emission limitation or standard (a control device does not include passive control measures that act to prevent pollutants from forming, such as the use of combustion or other process design features or characteristics). This facility is exempt from the requirements under 40 CFR part 64 (Compliance Assurance Monitoring).

E3-8. Logs and records specified in this permit shall be made available upon request by the Technical Secretary or a Division representative and shall be retained for a period of not less than five years unless otherwise noted. Logs and records contained in this permit are based on a recommended format. Any logs that have an alternative format may be utilized provided such
logs contain the same information that is required. Computer-generated logs are also acceptable. Logs and records are not required to be submitted semiannually unless specified in **Condition E2(a)(1)**.

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

**E3-9.** The following recordkeeping requirements shall apply to this facility:

1. For monthly recordkeeping, all data, including the results of all calculations, must be entered into the log no later than 30 days from the end of the month for which the data is required.  
2. 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.  
3. 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.

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

**E3-10(SM1). Identification of Responsible Official, Technical Contact, and Billing Contact of the permitted facility**

(a) The application that was utilized in the preparation of this permit is dated June 29, 2017, and signed by Rende A. Burke, Brownsville Combustion Turbine Site Manager of the permitted facility. In a letter dated June 2, 2020, Kevin Payne, Brownsville Combustion Turbine Plant Manager, is identified as the Responsible Official 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, agreements 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 June 29, 2017, and identifies Bruce D. Trout, Sr. as the 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 June 29, 2017, and identifies James W. Osborne, Jr. as the Billing Contact for the permitted facility. A letter dated July 9, 2018, identifies Michael G. Tritapoe, Senior Manager, Air Permits Compliance and Monitoring, 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.

**TAPCR 1200-03-09-.03(8)**

**E3-11(SM1). Facility-wide Limitations**

A. Total facility-wide emissions of nitrogen oxides (NOₓ) shall not exceed 1,720 tons during any period of 12 consecutive months.

B. Total facility-wide emissions of volatile organic compounds (VOC) shall not exceed 373 tons during any period of 12 consecutive months.

**TAPCR 1200-03-09-.01(4) and the information contained in the PSD application dated July 18, 2019.**

**Compliance Method:** The permittee shall calculate total quantities of NOₓ and VOC emitted from this facility during each calendar month and during each period of 12 consecutive months. The permittee shall maintain records of all emissions in a log (see example shown in **Log 1**) that readily demonstrates compliance with this condition. Calculated or monitored emissions
recorded in Logs 3 and 4 may be used to complete this log. This log must be maintained at the source location and kept available for inspection by the Technical Secretary or a Division representative. This log must be reported in accordance with Condition E2(a) of this permit and be retained for a period of not less than five years.

<table>
<thead>
<tr>
<th>Month/Year</th>
<th>VOC Emissions (Tons)</th>
<th>VOC Emissions (Tons/12 months)</th>
<th>NOx Emissions (Tons)</th>
<th>NOx Emissions (Tons/12 months)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

E4(SM1). **Source-Specific Permit Requirements** (All conditions in this section have been revised through SM1)

38-0068-01: **Electric Power Generation Facility**: Two Westinghouse 501D5 natural gas-fired, simple-cycle combustion turbines (1,496 MMBtu/hr each, HHV), units AA-001 and AA-002, and two Westinghouse 501D5A natural gas-fired, simple-cycle combustion turbines (1,512 MMBtu/hr each, HHV), units AA-003 and AA-004. Steam injection is used for control of NOx emissions from units AA-001 and AA-002. Water injection is used for control of NOx emissions from units AA-003 and AA-004. These units are subject to 40 CFR 60, Subpart GG.

One 10.6 MMBtu/hr natural gas-fired fuel heater, unit AA-005. This unit is subject to 40 CFR 60, Subpart Dc.

**Condition E4-1** applies to all units for this source (AA-001, AA-002, AA-003, AA-004, and AA-005)

E4-1. The permittee shall maintain a monthly log of the fuel heat content, fuel usage, and total heat input for each combustion turbine (CT) unit and the fuel heater (see example log below). This log must be maintained at the facility and kept available for inspection by the Technical Secretary or a Division representative. This log must be reported in accordance with Condition E2(a) of this permit and be retained for a period of not less than five years.

TAPCR 1200-03-09-.03(8)

<table>
<thead>
<tr>
<th>Month:</th>
<th>Heat Content of Fuel (Btu/ft³)</th>
<th>Year:</th>
<th>Fuel Usage (ft³/month)</th>
<th>Heat Input (Btu/month)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit I.D.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA-001</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA-002</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>AA-003</td>
<td></td>
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</tr>
<tr>
<td>AA-004</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>AA-005</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Totals:**

**Conditions E4-2 – E4-12** apply to the four natural gas-fired combustion turbines (AA-001, AA-002, AA-003, and AA-004).

E4-2. Only natural gas shall be used as fuel for the combustion turbines.

TAPCR 1200-03-09-.01(4)(j)2 and 1200-03-09-.03(8)

**Compliance Method**: Compliance with this operating limitation shall be assured by the recordkeeping required by **Condition E4-1**. The permittee shall certify compliance with this condition annually as required by **Condition E2(b)**.
E4-3. Particulate matter (PM, PM_{10}, PM_{2.5}), carbon monoxide (CO), VOC, sulfur dioxide (SO_2), NO_x, and carbon dioxide equivalent (CO_2e) emitted from these combustion turbines shall not exceed the limits shown in Table E4-3. These limits, and the specified control technology, shall represent BACT for this emission source.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Limit</th>
<th>Averaging Period</th>
<th>Control Technology</th>
<th>Rule Citation</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM^1</td>
<td>5.6 lb per CT-hour</td>
<td>8.7 lb per CT-hour</td>
<td>Use of natural gas, good combustion design and practices</td>
<td>1200-03-09-01(4)(j)2</td>
</tr>
<tr>
<td>PM_{10}</td>
<td>19.4 lb per CT-hour</td>
<td>30 operating-day rolling average</td>
<td>Good combustion design and practices</td>
<td>1200-03-09-01(4)(j)2</td>
</tr>
<tr>
<td>PM_{2.5}</td>
<td>15.5 lb per CT-hour</td>
<td>24.1 lb per CT-hour</td>
<td>Good combustion design and practices</td>
<td>1200-03-09-01(4)(j)2</td>
</tr>
<tr>
<td>CO</td>
<td>85.3 lb per CT-hour</td>
<td>86.2 lb per CT-hour</td>
<td>Use of natural gas, good combustion design and practices</td>
<td>1200-03-09-01(4)(j)2</td>
</tr>
<tr>
<td>SO_2</td>
<td>19.4 lb per CT-hour</td>
<td>30 operating-day rolling average</td>
<td>Good combustion design and practices</td>
<td>1200-03-09-01(4)(j)2</td>
</tr>
<tr>
<td>NO_2</td>
<td>1.950 lb per CT-event for startups and shutdowns</td>
<td>1,950 lb per CT-event for startups and shutdowns</td>
<td>Good combustion design and practices</td>
<td>1200-03-09-01(4)(j)2</td>
</tr>
<tr>
<td>NO_x</td>
<td>15 ppmvd^3</td>
<td>25 ppmvd^3</td>
<td>Steam injection (for AA-001 and AA-002), Water injection (for AA-003 and AA-004), and good combustion design and practices</td>
<td>1200-03-09-01(4)(j)2</td>
</tr>
<tr>
<td>CO_2e</td>
<td>175,148 lb per CT-hour (gross)^2</td>
<td>176,998 lb per CT-hour (gross)^2</td>
<td>Good combustion design and practices</td>
<td>1200-03-09-01(4)(j)2</td>
</tr>
</tbody>
</table>

1 PM emissions include filterable PM only. PM_{10} and PM_{2.5} emissions include filterable and condensable PM.
2 Excluding periods of startup, shutdown and maintenance.
3 Parts per million by volume, dry basis, corrected to 15% oxygen.
4 NO_x startup and shutdown emission limits are based on compliance with 40 CFR 60, Subpart GG, as specified in Condition E4-12.

For the purposes of this permit, the term ‘operating-day’ shall be defined as any calendar day during which electricity is generated, excluding periods of startup, shutdown, malfunction, maintenance, and combustion tuning.

40 CFR §60.332(a)(1), TAPCR 1200-03-09-01(4)(j)2, and the information contained in the PSD application dated July 18, 2019

Compliance Method: Compliance with the emission limits in this condition shall be assured by:
(a) recordkeeping of daily emission calculations for PM, PM_{10}, PM_{2.5}, CO, VOC, and CO_2e (see Condition E4-4);
(b) recordkeeping of daily emissions calculations and fuel monitoring for SO_2 (see Condition E4-5);
(c) recordkeeping of emissions calculations and data generated by continuous emissions monitors system for NO_x (see Condition E4-6).

E4-4. The permittee shall calculate the total emissions of PM, PM_{10}, PM_{2.5}, CO, and VOC during each operating day and each 30 operating-day (average) period. Emissions shall be calculated using the emission factors specified in Log 3 and the fuel usage data recorded in the logs required by Condition E4-1. The permittee shall calculate the total emissions of CO_2e during each calendar month and each period of 12 consecutive months and maintain records of all emissions in the form shown in Log 3. These logs must be maintained at the source location and kept available for inspection by the Technical Secretary or a Division representative. This log must be reported in accordance with Condition E2(a) of this permit and be retained for a period of not less than five years.
Log 3: Daily Emission Log for CT ID AA-001, AA-002, AA-003 and AA-004

<table>
<thead>
<tr>
<th>Date:</th>
<th>Emission Factor(^1) (lb/MMBtu, HHV)</th>
<th>Daily Emission Rate (lb/operating day)</th>
<th>Emission Rate (30 operating-day average or 12-month total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollutant</td>
<td>AA-001 &amp; AA-002</td>
<td>AA-003 &amp; AA-004</td>
<td></td>
</tr>
<tr>
<td>PM</td>
<td>0.004</td>
<td>0.006</td>
<td></td>
</tr>
<tr>
<td>PM(_{10})</td>
<td>0.013</td>
<td>0.020</td>
<td></td>
</tr>
<tr>
<td>PM(_{2.5})</td>
<td>0.010</td>
<td>0.016</td>
<td></td>
</tr>
<tr>
<td>SO(_{2})</td>
<td>0.002</td>
<td>0.002</td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>0.057</td>
<td>0.057</td>
<td></td>
</tr>
<tr>
<td>VOC</td>
<td>0.013</td>
<td>0.009</td>
<td></td>
</tr>
<tr>
<td>NO(_{X})</td>
<td>N/A</td>
<td>N/A</td>
<td>CEMS data(^2)</td>
</tr>
<tr>
<td>CO(_{2}\text{e})</td>
<td>117.1</td>
<td>117.1</td>
<td>CEMS data(^2)</td>
</tr>
</tbody>
</table>

\(^1\) Emission factors presented in the PSD application dated July 18, 2019.
\(^2\) Continuous emissions monitoring (CEMS) will demonstrate compliance with the emission limits for NO\(_{X}\) as described in Condition E4-7.

E4-5. This source is required to monitor emissions of SO\(_{2}\) in accordance with Part 75 requirements of the Acid Rain Program. The SO\(_{2}\) emissions for each month (in units of tons per month) shall be calculated in accordance with the protocol for pipeline natural gas combustion, shown in Section 2.3.1 of 40 CFR Part 75, Appendix D: Optional SO\(_{2}\) Emissions Data Protocol for Gas-fired and Oil-fired Units (Attachment 4) and included in the recordkeeping required by Condition E4-4.

TAPCR 1200-03-09-.03(8)

E4-6. Records of continuous emissions monitoring for the CT units shall be the method by which this fuel-burning installation assures compliance with the applicable nitrogen oxides (NO\(_{X}\)) emissions limitations.

Monitoring of NO\(_{X}\) emissions from the CT units shall be conducted by the following:

(a) Continuous emissions monitoring systems (CEMS) which meet the requirements of Condition E4-7 of this permit.

NO\(_{X}\) emissions shall be calculated and reported in units of pounds of NO\(_{X}\) per million Btu and in units of tons of NO\(_{X}\) per month.

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

E4-7. The permittee shall maintain and operate a continuous in-stack monitoring system for NO\(_{X}\). The sensors for the monitoring system shall be located in representative areas of the effluent gas stream of the fuel burning equipment. Electronic signal combining systems shall be operated to convert the output of the pollutant monitors into units of the applicable emission standards. The in-stack nitrogen oxides monitoring system shall meet all applicable requirements of 40 CFR Part 75.

TAPCR 1200-03-10-.02(1)(a) and 1200-03-09-.03(8)

E4-8. Operational Availability Condition for Nitrogen Oxides Monitoring System

The use of the in-stack monitoring system shall be the method by which the combustion turbines demonstrate compliance with the applicable NO\(_{X}\) emissions limitations. The monitor shall be fully operational for at least 95% of the operating time during each semi-annual reporting period. An operational availability of less than this amount may be the basis for declaring a unit in noncompliance with the applicable monitoring requirement, unless the reasons for the failure to maintain this level of availability are accepted by the Division as being legitimate malfunctions of the instruments. Further, should the NO\(_{X}\) monitor be inoperative for more than seven consecutive days, the use of a backup monitor may be required.
Compliance Method: Compliance with this condition shall be assured by compliance with Condition E4-11.

E4-9. Quality Assurance Condition for Nitrogen Oxides Monitoring System

Quality assurance checks shall be performed on the NOx monitoring system consistent with the provisions of 40 CFR 75 as outlined in the US EPA letter dated August 29, 2007 (Attachment 6). 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 NOx 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 nitrogen oxides emission monitoring system within acceptable limits.

E4-10. For emissions of NOx, 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 is being performed. A valid one-hour average shall consist of at least two data points, with each representing a fifteen-minute time period.

Here, an hour is defined as any one of the 24 successive 60-minute time blocks beginning at midnight.

E4-11. The following information shall be submitted to the Technical Secretary in the semiannual report required by Condition E2(a):

(a) For NOx, the report shall include emission averages, in the units of the applicable standard (ppmvd corrected to 15% O2), for each averaging period during operation of the source (30-operating day rolling averages).
(b) The report shall include 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. The Technical Secretary may require proof of system performance whenever system repairs or adjustments have been made.
(c) When the system has not been inoperative, repaired, or adjusted, such information shall be included in the report.
(d) Excess emissions reports, pursuant to §60.7(c), §60.334(j), and Condition E4-12.

E4-12. This source is subject to and shall comply with all applicable requirements of 40 CFR Part 60, Subpart GG – Standards of Performance for Stationary Gas Turbines. Based on the manufacturer’s rated heat input in kilojoules per watt hour for each combustion turbine, the calculated NOx emission limit under 40 CFR §60.332(a)(1) is 150 ppm, 4-hour rolling average for AA-001 and AA-002, and is 133 ppm, 4-hour rolling average for AA-003 and AA-004.

In accordance with sections §60.7(c) and §60.334(j), excess emissions must be reported for all periods of unit operation, including startup, shutdown, and malfunction. Reports of excess emissions and monitor downtime shall be submitted in accordance with Condition E2(a).

40 CFR §60.332, 40 CFR §60.334, and TAPCR 1200-03-10-.02(2) and 2003-03-09-.03(8)

Conditions E4-13 – E4-16 apply to the 10.6 MMBtu/hr natural gas-fired fuel heater (AA-005)

E4-13. Only natural gas shall be used as fuel for the fuel heater.

Compliance Method: Compliance with this operating limitation shall be assured by the recordkeeping required by Condition E4-1. The permittee shall certify compliance with this condition annually as required by Condition E2(b).
E4-14. Emissions of PM, PM\textsubscript{10}, PM\textsubscript{2.5}, CO, VOC, SO\textsubscript{2}, NO\textsubscript{X}, and CO\textsubscript{2e} from this fuel heater shall not exceed the limits shown in Table E4-14. These limits shall represent BACT for this emission source.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Limit</th>
<th>Averaging Period</th>
<th>Control Technology</th>
<th>Rule Citation</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>0.02 lb/hr</td>
<td>30 operating-day rolling average</td>
<td>Use of natural gas, good combustion design and practices</td>
<td>1200-03-09-.01(4)(j)2</td>
</tr>
<tr>
<td>PM\textsubscript{10}, PM\textsubscript{2.5}</td>
<td>0.08 lb/hr</td>
<td>30 operating-day rolling average</td>
<td>Use of natural gas, good combustion design and practices</td>
<td>1200-03-09-.01(4)(j)2</td>
</tr>
<tr>
<td>CO</td>
<td>0.87 lb/hr</td>
<td>30 operating-day rolling average</td>
<td>Good combustion design and practices</td>
<td>1200-03-09-.01(4)(j)2</td>
</tr>
<tr>
<td>VOC</td>
<td>0.06 lb/hr</td>
<td>30 operating-day rolling average</td>
<td>Good combustion design and practices</td>
<td>1200-03-09-.01(4)(j)2</td>
</tr>
<tr>
<td>SO\textsubscript{2}</td>
<td>0.006 lb/hr</td>
<td>30 operating-day rolling average</td>
<td>Use of natural gas, good combustion design and practices</td>
<td>1200-03-09-.01(4)(j)2</td>
</tr>
<tr>
<td>NO\textsubscript{X}</td>
<td>1.04 lb/hr</td>
<td>30 operating-day rolling average</td>
<td>Good combustion design and practices</td>
<td>1200-03-09-.01(4)(j)2</td>
</tr>
<tr>
<td>CO\textsubscript{2e}</td>
<td>5,500 tons/year</td>
<td>12-month rolling total</td>
<td>Good combustion design and practices</td>
<td>1200-03-09-.01(4)(j)2</td>
</tr>
</tbody>
</table>

Table E4-14: BACT Emission Limits for one Fuel Heater

TAPCR1200-03-09-.01(4)(j)2 and the information contained in the PSD application dated July 18, 2019

Compliance Method: Compliance with these emission limits shall be demonstrated by calculation of actual emissions and the recordkeeping required by Condition E4-15.

E4-15. The permittee shall calculate actual emissions of PM, PM\textsubscript{10}, PM\textsubscript{2.5}, CO, VOC, SO\textsubscript{2}, NO\textsubscript{X}, and CO\textsubscript{2e} during each calendar month and maintain records of these emissions in the form shown in Log 4 below. Emissions shall be calculated using the emission factors specified in Log 4 and the fuel usage data recorded in the logs required by Condition E4-1. This log must be maintained at the source location and kept available for inspection by the Technical Secretary or a Division representative. This log must be submitted in accordance with Condition E2(a) of this permit and be retained for a period of not less than five years.

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

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor (lb/MBtu)</th>
<th>Monthly Emission Rate (lb/month)</th>
<th>Monthly Emission Rate (ton/month)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>0.0019</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PM\textsubscript{10}, PM\textsubscript{2.5}</td>
<td>0.0075</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SO\textsubscript{2}</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>0.0824</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC</td>
<td>0.0054</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NO\textsubscript{X}</td>
<td>0.0980</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO\textsubscript{2e}</td>
<td>117.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Log 4: Monthly Emission Log for Fuel Heater ID AA-005

E4-16. The fuel heater is subject to and shall comply with all applicable requirements of 40 CFR 60, Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. Pursuant to §60.48c(g)(2), the permittee shall record and maintain records of the amount of each fuel combusted in the fuel heater during each month.

TAPCR 1200-03-09-.03(8)
**Compliance Method:** Compliance with this requirement is demonstrated through the recordkeeping required by **Condition E4-1**.

---

End of Significant Modification #1 to Permit Number 572889
ATTACHMENT 1

OPACITY MATRIX DECISION TREE for
VISIBLE EMISSION EVALUATION EPA METHOD 9
Dated June 18, 1996, and Amended September 11, 2013
Notes:

PM = Periodic Monitoring required by 1200-03-09-02(11)(c)(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, NOx, 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

---

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

Is Emission Unit an Equipment Leak?
- Yes: No opacity reading required
- No

Natural Gas or No. 2 Oil-fired Combustion Source?
- Yes: No opacity reading required
- No

Is Each Allowable Emission less than or equal to 10 TPY?
- Yes: No opacity reading required
- No

Is Each Allowable Emission greater than 10 TPY from Colorless Pollutants (e.g. Colorless VOCs, CO, HCl, HF, Ammonia, or Methane)?
- Yes
- No

Within one year following Title V permit issuance date conduct an initial 30-minute VEE during normal process operation

Is the highest 6-minute average** less than or equal to 50% of the applicable opacity standard (e.g. 10% opacity for a source having a 20% standard)?
- Yes: Within one year prior to Title V permit expiration date conduct another 30-minute VEE during normal process operation
- No: Conduct VEEs Semi-annually

Is the highest 6-minute average** greater than or equal to 10 TPY from Colorless Pollutants (e.g. Colorless VOCs, CO, HCl, HF, Ammonia, or Methane)?
- Yes
- No

Is Emission Unit an Equipment Leak?
- Yes: No opacity reading required
- No

Natural Gas or No. 2 Oil-fired Combustion Source?
- Yes: No opacity reading required
- No

Is Each Allowable Emission less than or equal to 10 TPY?
- Yes: No opacity reading required
- No

Is Each Allowable Emission greater than 10 TPY from Colorless Pollutants (e.g. Colorless VOCs, CO, HCl, HF, Ammonia, or Methane)?
- Yes
- No

Within one year following Title V permit issuance date conduct an initial 30-minute VEE during normal process operation

Is the highest 6-minute average** less than or equal to 50% of the applicable opacity standard (e.g. 10% opacity for a source having a 20% standard)?
- Yes: Within one year prior to Title V permit expiration date conduct another 30-minute VEE during normal process operation
- No: Conduct VEEs Semi-annually

Has a semi-annual VEE highest 6-minute average** been greater than or equal to the applicable opacity standard?
- Yes: Have 3 consecutive month VEEs highest 6-minute average** been less than the applicable opacity standard?
- No: Conduct 30-minute VEEs monthly

Report deviations from Permit requirements in periodic reports and periodic compliance certifications as required by the Major Source Operating Permit.
ATTACHMENT 2

ACID RAIN PERMIT for
Tennessee Valley Authority – Brownsville Combustion Turbine Plant
PHASE II ACID RAIN PERMIT
This permit fulfills the requirements of the federal regulations promulgated at 40 CFR Parts 72, 73, 75, 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.

Date Issued: December 27, 2021
Effective Dates: December 26, 2026
Permit Number: 877417

Issued By:
Tennessee Air Pollution Control Board
Tennessee Department of Environment and Conservation

Issued To:
Tennessee Valley Authority
Brownsville Combustion Turbine Plant

Installation Address:
948 Beech Grove Road
Brownsville

Emission Source Reference Number: 38-0068
ORIS/Facility Code: 55081

Acid Rain Permit Contents:

1. Statement of Basis.
2. SO₂ allowances allocated under this permit and NOₓ requirements for each affected unit.
3. Standard Requirements (40 CFR §72.9 and TAPCR 1200-03-30-.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 NOₓ 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.

Michelle W. Avery
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

CN-0827 (Rev.2-13) RDA-1298
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. \( \text{SO}_2 \) Allowance Allocations and \( \text{NO}_x \) Requirements for each affected unit

<table>
<thead>
<tr>
<th>Unit</th>
<th>( \text{SO}_2 ) allowances</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
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<tr>
<td>AA-001</td>
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<tr>
<td></td>
<td>( \text{NO}_x ) limit</td>
<td>40 CFR Part 76 is not applicable to unit. Natural gas-fired unit.</td>
<td></td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit</th>
<th>( \text{SO}_2 ) allowances</th>
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<th>2022</th>
<th>2023</th>
<th>2024</th>
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<td></td>
<td>( \text{NO}_x ) limit</td>
<td>40 CFR Part 76 is not applicable to unit. Natural gas-fired unit.</td>
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</table>

<table>
<thead>
<tr>
<th>Unit</th>
<th>( \text{SO}_2 ) allowances</th>
<th>2021</th>
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<th>2023</th>
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<tr>
<td></td>
<td>( \text{NO}_x ) limit</td>
<td>40 CFR Part 76 is not applicable to unit. Natural gas-fired unit.</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit</th>
<th>( \text{SO}_2 ) allowances</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
</tr>
</thead>
<tbody>
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<td>AA-004</td>
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<td>*</td>
</tr>
<tr>
<td></td>
<td>( \text{NO}_x ) limit</td>
<td>40 CFR Part 76 is not applicable to unit. Natural gas-fired unit.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* These new units are not eligible for an \( \text{SO}_2 \) allowance allocation under 40 CFR part 73, but the source must comply with all of the standard requirements and special provisions stated in the Phase II permit application. The source must hold sufficient allowances to cover \( \text{SO}_2 \) emissions.

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 units are four (4) natural gas-fired simple cycle combustion turbines.

5. Permit Application and \( \text{NO}_x \) Compliance Plan: Attached.

6. Summary of Previous Actions and Present Action:

Previous Actions:

1. Draft permit issued for public comment: June 3, 1999
2. Permit finalized and issued: August 25, 1999
3. Draft renewal permit issued for public comment: August 5, 2004
4. Renewal permit finalized and issued: October 26, 2004
5. Draft renewal permit 863255 issued for public comment: November 1, 2012
6. Renewal permit 863255 finalized and issued: January 1, 2013
7. Draft renewal permit 874934 issued for public comment: November 1, 2018
8. Renewal permit 874934 finalized and issued: December 27, 2018

Present Action:

9. Draft renewal 877417 issued for public comment: November 10, 2021
10. Renewal permit 877417 finalized and issued: December 27, 2021
Attachment:
Acid Rain Permit Application
Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

STEP 1
Identify the facility name, State, and plant (ORIS) code.

- Facility (Source) Name: Brownsville
- State: TN
- Plant Code: 55081

STEP 2
Enter the unit ID# for every affected unit at the affected source in column "a."

<table>
<thead>
<tr>
<th>Unit ID#</th>
<th>Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA-001</td>
<td>Yes</td>
</tr>
<tr>
<td>AA-002</td>
<td>Yes</td>
</tr>
<tr>
<td>AA-003</td>
<td>Yes</td>
</tr>
<tr>
<td>AA-004</td>
<td>Yes</td>
</tr>
</tbody>
</table>

 EPA Form 7610-13 (Revised 12-2016)
Permit Number 572889

Significant Modification #1

Expiration Date: December 26, 2023

Permit Number 877417 (Acid Rain Permit)

Expiration Date: December 26, 2026

Acid Rain - Page 2

STEP 3

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
   (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
   (ii) Submit in a timely manner any supplemental information that the permitting authority determines necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit.

(2) The owners and operators of each affected source and each affected unit at the source shall:
   (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
   (ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) 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.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:
   (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.54(a)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
   (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
   (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
   (ii) Starting on the later of January 1, 2000 or the deadline for monitoring certification under 40 CFR part 75, an affected unit under 40 CFR 72.5(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.
Facility (Source) Name (from STEP 1) Brownsville

STEP 3. Cont'd.

Excess Emissions Requirements

1. The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
2. The owners and operators of an affected source that has excess emissions in any calendar year shall:
   (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
   (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

1. Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep, on site at the source each of the following documents for a period of 5 years from the date the document is created:
   (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation. In accordance with 40 CFR 72.24, provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
   (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 5-year period for recordkeeping, the 5-year period shall apply;
   (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
   (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
2. The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

1. Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72, 73, or 74, or 72, 73, or 74, that is included under any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 313(c) of the Act.
2. Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 313(c) of the Act and 18 U.S.C. 1001.
3. No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
4. Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
5. Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
6. Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
7. Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.
STEP 3. Cont'd.

Effect on Other Authorities:

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exemptions or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans.

(2) Limiting the number of allowances a source can hold, provided that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act.

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State regulation, or limiting such State regulation, including any prudence review requirements under such State law.

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected unit for which the submission is made. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name: Jacinda B. Woodward

Signature: [Signature]

Date: 8/21/2019
Instructions for the Acid Rain Program
Permit Application

The Acid Rain Program requires the designated representative to submit an Acid Rain permit application for each source with an affected unit. A complete Certificate of Representation must be received by EPA before the permit application is submitted to the Title V permitting authority. A complete Acid Rain permit application, once submitted, is binding on the owners and operators of the affected source and is enforceable in the absence of a permit until the Title V permitting authority either issues a permit to the source or disapproves the application.

Please type or print. If assistance is needed, contact the Title V permitting authority.

STEP 1
A Plant Code is a 4 or 5 digit number assigned by the Department of Energy's (DOE) Energy Information Administration (EIA) to facilities that generate electricity. For other facilities, "Plant Code" is synonymous with "ORI/SP" and "Facility" codes. If the facility generates electricity but no Plant Code has been assigned, or if there is uncertainty regarding what the Plant Code is, send an email to the EIA. The email address is EIA-453@doe.gov.

STEP 2
In column "a," identify each unit at the facility by providing the appropriate unit identification number, consistent with the identifiers used in the Certificate of Representation and with submissions made to DOE and/or EIA. Do not list duct burners. For new units without identification numbers, owners and operators must assign identifiers consistent with EIA and DOE requirements. Each Acid Rain Program submission that includes the unit identification number(s) (e.g., Acid Rain permit applications, monitoring plans, quarterly reports, etc.) should reference those unit identification numbers in exactly the same way that they are referenced on the Certificate of Representation.

Submission Deadlines

For new units, an initial Acid Rain permit application must be submitted to the Title V permitting authority 24 months before the date the unit commences operation. Acid Rain permit renewal applications must be submitted at least 5 months in advance of the expiration of the acid rain portion of a Title V permit, or such longer time as provided for under the Title V permitting authority's operating permits regulation.

Submission Instructions

Submit this form to the appropriate Title V permitting authority. If you have questions regarding this form, contact your local, State, or EPA Regional Acid Rain contact, or call EPA's Acid Rain Hotline at (202) 343-9620.

Paperwork Burden Estimate

The public reporting and record keeping burden for this collection of information is estimated to average 8 hours per response. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions, develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.
ATTACHMENT 4

40 CFR Part 75, Appendix D, Section 2.3.1:
Optional SO₂ Emissions Data Protocol for Gas-fired and Oil-fired Units
40 CFR Part 75, Appendix D: Optional SO₂ Emissions Data Protocol for Gas-fired and Oil-fired Units

2.3.1 Pipeline Natural Gas Combustion
The owner or operator may determine the SO₂ mass emissions from the combustion of a fuel that meets the definition of pipeline natural gas, in §72.2 of this chapter, using the procedures of this section.

2.3.1.1 SO₂ Emission Rate
For a fuel that meets the definition of pipeline natural gas under §72.2 of this chapter, the owner or operator may determine the SO₂ mass emissions using either a default SO₂ emission rate of 0.0006 lb/mmBtu and the procedures of this section, the procedures in section 2.3.2 for natural gas, or the procedures of section 2.3.3 for any gaseous fuel. For each affected unit using the default rate of 0.0006 lb/mmBtu, the owner or operator must document that the fuel combusted is actually pipeline natural gas, using the procedures in section 2.3.1.4 of this appendix.

2.3.1.2 Hourly Heat Input Rate
Calculate hourly heat input rate, in mmBtu/hr, for a unit combusting pipeline natural gas, using the procedures of section 3.4.1 of this appendix. Use the measured fuel flow rate from section 2.1 of this appendix and the gross calorific value from section 2.3.4.1 of this appendix in the calculations.

2.3.1.3 SO₂ Hourly Mass Emission Rate and Hourly Mass Emissions
For pipeline natural gas combustion, calculate the SO₂ mass emission rate, in lb/hr, using Equation D–5 in section 3.3.2 of this appendix (when the default SO₂ emission rate is used) or Equation D–4 (if daily or hourly fuel sampling is used). Then, use the calculated SO₂ mass emission rate and the unit operating time to determine the hourly SO₂ mass emissions from pipeline natural gas combustion, in pounds, using Equation D–12 in section 3.5.1 of this appendix.

2.3.1.4 Documentation that a Fuel is Pipeline Natural Gas
(a) A fuel may initially qualify as pipeline natural gas, if information is provided in the monitoring plan required under §75.53, demonstrating that the definition of pipeline natural gas in §72.2 of this chapter has been met. The information must demonstrate that the fuel meets either the percent methane or GCV requirement and has a total sulfur content of 0.5 grains/100scf or less. The demonstration must be made using one of the following sources of information:
(1) The gas quality characteristics specified by a purchase contract, tariff sheet, or by a pipeline transportation contract; or
(2) Historical fuel sampling data for the previous 12 months, documenting the total sulfur content of the fuel and the GCV and/or percentage by volume of methane. The results of all sample analyses obtained by or provided to the owner or operator in the previous 12 months shall be used in the demonstration, and each sample result must meet the definition of pipeline natural gas in §72.2 of this chapter; or
(3) If the requirements of paragraphs (a)(1) and (a)(2) of this section cannot be met, a fuel may initially qualify as pipeline natural gas if at least one representative sample of the fuel is obtained and analyzed for total sulfur content and for either the gross calorific value (GCV) or percent methane, and the results of the sample analysis show that the fuel meets the definition of pipeline natural gas in §72.2 of this chapter. Use the sampling methods specified in sections 2.3.3.1.2 and 2.3.4 of this appendix. The required fuel sample may be obtained and analyzed by the owner or operator, by an independent laboratory, or by the fuel supplier. If multiple samples are taken, each sample must meet the definition of pipeline natural gas in §72.2 of this chapter.
(b) If the results of the fuel sampling under paragraph (a)(2) or (a)(3) of this section show that the fuel does not meet the definition of pipeline natural gas in §72.2 of this chapter, but those results are believed to be anomalous, the owner or operator may document the reasons for believing this in the monitoring plan for the unit, and may immediately perform additional sampling. In such cases, a minimum of three additional samples must be obtained and analyzed, and the results of each sample analysis must meet the definition of pipeline natural gas.
(c) If several affected units are supplied by a common source of gaseous fuel, a single sampling result may be applied to all of the units and it is not necessary to obtain a separate sample for each unit, provided that the composition of the fuel is not altered by blending or mixing it with other gaseous fuel(s) when it is transported from the sampling location to the affected units. For the purposes of this paragraph, the term “other gaseous fuel(s)” excludes compounds such as mercaptans when they are added in trace quantities for safety reasons.
(d) If the results of fuel sampling and analysis under paragraph (a)(2), (a)(3), or (b) of this section show that the fuel does not qualify as pipeline natural gas, proceed as follows:

1. If the fuel still qualifies as natural gas under section 2.3.2.4 of this appendix, re-classify the fuel as natural gas and determine the appropriate default SO2 emission rate for the fuel, according to section 2.3.2.1.1 of this appendix; or

2. If the fuel does not qualify either as pipeline natural gas or natural gas, re-classify the fuel as “other gaseous fuel” and implement the procedures of section 2.3.3 of this appendix, within 180 days of the end of the quarter in which the disqualifying sample was taken. In addition, the owner or operator shall use Equation D–1h in this appendix to calculate a default SO2 emission rate for the fuel, based on the results of the sample analysis that exceeded 20 grains/100 scf of total sulfur, and shall use that default emission rate to report SO2 mass emissions under this part until section 2.3.3 of this appendix has been fully implemented.

(e) If a fuel qualifies as pipeline natural gas based on the specifications in a fuel contract or tariff sheet, no additional, on-going sampling of the fuel's total sulfur content is required, provided that the contract or tariff sheet is current, valid and representative of the fuel combusted in the unit. If the fuel qualifies as pipeline natural gas based on fuel sampling and analysis, on-going sampling of the fuel's sulfur content is required annually and whenever the fuel supply source changes. For the purposes of this paragraph, (e), sampling “annually” means that at least one sample is taken in each calendar year. The effective date of the annual total sulfur sampling requirement is January 1, 2003.

(f) On-going sampling of the GCV of the pipeline natural gas is required under section 2.3.4.1 of this appendix.

(g) For units that are required to monitor and report NOx mass emissions and heat input under subpart H of this part, but which are not affected units under the Acid Rain Program, the owner or operator is exempted from the requirements in paragraphs (a) and (e) of this section to document the total sulfur content of the pipeline natural gas.
ATTACHMENT 5

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\textsubscript{X} Annual Trading Program, CSAPR NO\textsubscript{X} Ozone Season Trading Programs (Group 1 and Group 2), and CSAPR SO\textsubscript{2} Group 1 Trading Program.

<table>
<thead>
<tr>
<th>Unit ID:</th>
<th>CEMS requirements pursuant to 40 CFR part 75, Subparts B (SO\textsubscript{2} monitoring) and H (NO\textsubscript{X} monitoring)</th>
<th>Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR 75, Appendix D</th>
<th>Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR 75, Appendix E</th>
<th>Low Mass Emissions (LME) requirements for gas- and oil-fired units pursuant to §75.19</th>
<th>EPA-approved alternative monitoring system requirements pursuant to 40 CFR 75 Subpart E</th>
</tr>
</thead>
<tbody>
<tr>
<td>SO\textsubscript{2}</td>
<td>X</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>NO\textsubscript{X}</td>
<td>X</td>
<td>---</td>
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</tr>
<tr>
<td>Heat Input</td>
<td>X</td>
<td>---</td>
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</tr>
</tbody>
</table>

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\textsubscript{X} Annual Trading Program), §§97.530 through 97.535 (CSAPR NO\textsubscript{X} Ozone Season Group 1 Trading Program), and §§97.630 through 97.635 (CSAPR SO\textsubscript{2} 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 97.635, 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, §§97.530, 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)(ii)(B), may be used to add to or change this unit’s monitoring system description.

CSAPR NO\textsubscript{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\textsubscript{X} Annual source and each CSAPR NO\textsubscript{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 certification 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\textsubscript{X} Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the CSAPR NO\textsubscript{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\textsubscript{X} emissions requirements.

(1) CSAPR NO\textsubscript{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\textsubscript{X} Annual source and each CSAPR NO\textsubscript{X} Annual unit at the source shall hold, in the source's compliance account, CSAPR NO\textsubscript{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\textsubscript{X} emissions for such control period from all CSAPR NO\textsubscript{X} Annual units at the source.

(ii) If total NO\textsubscript{X} emissions during a control period in a given year from the CSAPR NO\textsubscript{X} Annual units at a CSAPR NO\textsubscript{X} Annual source are in excess of the CSAPR NO\textsubscript{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\textsubscript{X} Annual unit at the source shall hold the CSAPR NO\textsubscript{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\textsubscript{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\textsubscript{X} Annual assurance provisions.

(i) If total NO\textsubscript{X} emissions during a control period in a given year from all CSAPR NO\textsubscript{X} Annual units at CSAPR NO\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{X} emissions exceeds the respective common designated representative’s assurance level; and (B) The amount by which total NO\textsubscript{X} emissions from all CSAPR NO\textsubscript{X} Annual units at CSAPR NO\textsubscript{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\textsubscript{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\textsubscript{X} emissions from all CSAPR NO\textsubscript{X} Annual units at CSAPR NO\textsubscript{X} Annual sources in the State during a control period in a given year exceed the state assurance level if such total NO\textsubscript{X} emissions exceed the sum, for such control period, of the state NO\textsubscript{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\textsubscript{X} emissions from all CSAPR NO\textsubscript{X} Annual units at CSAPR NO\textsubscript{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\textsubscript{X} emissions from the CSAPR NO\textsubscript{X} Annual units at CSAPR NO\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{X} Annual allowance that was allocated for such control period or a control period in a prior year.

(ii) A CSAPR NO\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{X} Annual allowance is a limited authorization to emit one ton of NO\textsubscript{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\textsubscript{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\textsubscript{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(c)(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\textsubscript{x} Ozone Season Group 1 unit at the source shall hold the CSAPR NO\textsubscript{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\textsubscript{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\textsubscript{x} Ozone Season Group 1 assurance provisions.

(i) If total NO\textsubscript{x} emissions during a control period in a given year from all CSAPR NO\textsubscript{x} Ozone Season Group 1 units at CSAPR NO\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{x} emissions exceeds the respective common designated representative’s assurance level; and

(B) The amount by which total NO\textsubscript{x} emissions from all CSAPR NO\textsubscript{x} Ozone Season Group 1 units at CSAPR NO\textsubscript{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\textsubscript{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\textsubscript{x} emissions from all CSAPR NO\textsubscript{x} Ozone Season Group 1 units at CSAPR NO\textsubscript{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\textsubscript{x} emissions exceed the sum, for such control period, of the State NO\textsubscript{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\textsubscript{x} emissions from all CSAPR NO\textsubscript{x} Ozone Season Group 1 units at CSAPR NO\textsubscript{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\textsubscript{x} emissions from the CSAPR NO\textsubscript{x} Ozone Season Group 1 units at CSAPR NO\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{x} Ozone Season Group 1 allowance is a limited authorization to emit one ton of NO\textsubscript{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\textsubscript{x} Ozone Season Group 1 Trading Program; and
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(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\textsubscript{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\textsubscript{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)(ii)(B) or 71.7(c)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each CSAPR NO\textsubscript{X} Ozone Season Group 1 source and each CSAPR NO\textsubscript{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\textsubscript{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\textsubscript{X} Ozone Season Group 1 Trading Program.

(2) The designated representative of a CSAPR NO\textsubscript{X} Ozone Season Group 1 source and each CSAPR NO\textsubscript{X} Ozone Season Group 1 unit at the source shall make all submissions required under the CSAPR NO\textsubscript{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\textsubscript{X} Ozone Season Group 1 Trading Program that applies to a CSAPR NO\textsubscript{X} Ozone Season Group 1 source or the designated representative of a CSAPR NO\textsubscript{X} Ozone Season Group 1 source shall also apply to the owners and operators of such source and of the CSAPR NO\textsubscript{X} Ozone Season Group 1 units at the source.

(2) Any provision of the CSAPR NO\textsubscript{X} Ozone Season Group 1 Trading Program that applies to a CSAPR NO\textsubscript{X} Ozone Season Group 1 unit or the designated representative of a CSAPR NO\textsubscript{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\textsubscript{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\textsubscript{X} Ozone Season Group 1 source or CSAPR NO\textsubscript{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 SO\textsubscript{2} 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 SO\textsubscript{2} Group 1 source and each CSAPR SO\textsubscript{2} 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 SO\textsubscript{2} Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO\textsubscript{2} 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) SO\textsubscript{2} emissions requirements.

(1) CSAPR SO\textsubscript{2} 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 SO\textsubscript{2} Group 1 source and each CSAPR SO\textsubscript{2} Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO\textsubscript{2} 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 SO\textsubscript{2} 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 SO\textsubscript{2} 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 SO\textsubscript{2} 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 SO\textsubscript{2} Group 1 source and each CSAPR SO\textsubscript{2} 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 SO\textsubscript{2} 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 SO\textsubscript{2} Group 1 Trading Program.

(2) The designated representative of a CSAPR SO\textsubscript{2} Group 1 source and each CSAPR SO\textsubscript{2} Group 1 unit at the source shall make all submissions required under the CSAPR SO\textsubscript{2} 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 SO\textsubscript{2} Group 1 Trading Program that applies to a CSAPR SO\textsubscript{2} Group 1 source or the designated representative of a CSAPR SO\textsubscript{2} Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO\textsubscript{2} Group 1 units at the source.

(2) Any provision of the CSAPR SO\textsubscript{2} Group 1 Trading Program that applies to a CSAPR SO\textsubscript{2} Group 1 unit or the designated representative of a CSAPR SO\textsubscript{2} Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities. No provision of the CSAPR SO\textsubscript{2} 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 SO\textsubscript{2} Group 1 source or CSAPR SO\textsubscript{2} 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\textsubscript{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\textsubscript{x} Ozone Season Group 2 source and each CSAPR NO\textsubscript{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\textsubscript{x} Ozone Season Group 2 allowances under §§97.811(a)(2) and (b) and 97.812 and to determine compliance with the CSAPR NO\textsubscript{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\textsubscript{x} emissions requirements—

(1) CSAPR NO\textsubscript{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\textsubscript{x} Ozone Season Group 2 source and each CSAPR NO\textsubscript{x} Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR
NOx 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 NOx emissions for such control period from all CSAPR NOx Ozone Season Group 2 units at the source.

(ii) If total NOx emissions during a control period in a given year from the CSAPR NOx Ozone Season Group 2 units at a CSAPR NOx Ozone Season Group 2 source are in excess of the CSAPR NOx 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 NOx Ozone Season Group 2 unit at the source shall hold the CSAPR NOx Ozone Season Group 2 allowances required for deduction under §97.824(d); and

(B) The owners and operators of the source and each CSAPR NOx 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 NOx Ozone Season Group 2 assurance provisions.

(i) If total NOx emissions during a control period in a given year from all base CSAPR NOx Ozone Season Group 2 units at base CSAPR NOx 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 NOx 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 NOx 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 NOx 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 NOx emissions exceeds the respective common designated representative's assurance level; and

(B) The amount by which total NOx emissions from all base CSAPR NOx Ozone Season Group 2 units at base CSAPR NOx 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 NOx 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 NOx emissions from all base CSAPR NOx Ozone Season Group 2 units at base CSAPR NOx 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 NOx emissions exceed the sum, for such control period, of the State NOx 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 NOx emissions from all base CSAPR NOx Ozone Season Group 2 units at base CSAPR NOx 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 NOx emissions from the base CSAPR NOx Ozone Season Group 2 units at base CSAPR NOx 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 NOx 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 NOx 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 NOx 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 NOx 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 NOx Ozone Season Group 2 allowances held for compliance.
A CSAPR NO\textsubscript{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\textsubscript{x} Ozone Season Group 2 allowance that was allocated or auctioned for such control period or a control period in a prior year.

A CSAPR NO\textsubscript{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\textsubscript{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.

Allowance Management System requirements. Each CSAPR NO\textsubscript{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.

Limited authorization. A CSAPR NO\textsubscript{x} Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO\textsubscript{x} during the control period in one year. Such authorization is limited in its use and duration as follows:

Such authorization shall only be used in accordance with the CSAPR NO\textsubscript{x} Ozone Season Group 2 Trading Program; and

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.

Property right. A CSAPR NO\textsubscript{x} Ozone Season Group 2 allowance does not constitute a property right.

Title V permit requirements.

No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO\textsubscript{x} Ozone Season Group 2 allowances in accordance with this subpart.

A description of whether a unit is required to monitor and report NO\textsubscript{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)(i)(B) and 71.7(e)(1)(i)(B) of this chapter.

Additional recordkeeping and reporting requirements.

Unless otherwise provided, the owners and operators of each CSAPR NO\textsubscript{x} Ozone Season Group 2 source and each CSAPR NO\textsubscript{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.

The certificate of representation under §97.816 for the designated representative for the source and each CSAPR NO\textsubscript{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.

All emissions monitoring information, in accordance with this subpart.

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\textsubscript{x} Ozone Season Group 2 Trading Program.

The designated representative of a CSAPR NO\textsubscript{x} Ozone Season Group 2 source and each CSAPR NO\textsubscript{x} Ozone Season Group 2 unit at the source shall make all submissions required under the CSAPR NO\textsubscript{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.

Liability.

Any provision of the CSAPR NO\textsubscript{x} Ozone Season Group 2 Trading Program that applies to a CSAPR NO\textsubscript{x} Ozone Season Group 2 source or the designated representative of a CSAPR NO\textsubscript{x} Ozone Season Group 2 source shall also apply to the owners and operators of such source and of the CSAPR NO\textsubscript{x} Ozone Season Group 2 units at the source.

Any provision of the CSAPR NO\textsubscript{x} Ozone Season Group 2 Trading Program that applies to a CSAPR NO\textsubscript{x} Ozone Season Group 2 unit or the designated representative of a CSAPR NO\textsubscript{x} Ozone Season Group 2 unit shall also apply to the owners and operators of such unit.

Effect on other authorities. No provision of the CSAPR NO\textsubscript{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\textsubscript{x} Ozone Season Group 2 source or CSAPR NO\textsubscript{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 6

EPA CONFIRMATION LETTER
(ALTERNATIVE QUALITY ASSURANCE PROCEDURE)
Dear Mr. Stephens:

This is in response to a letter from Mr. Jeryl Stewart of your staff requesting a determination regarding a request for approval of alternative quality assurance (QA) procedures for the combustion turbines at an electric power peaking station that Duke Energy Americas, LLC (Duke) operates in Brownsville, Tennessee. These turbines are subject to 40 CFR Part 60, Subpart GG (Standards of Performance for Stationary Gas Turbines) and to monitoring requirements under the acid rain rules in 40 CFR Part 75. In a letter sent to your agency, Duke requested that it be allowed to use QA procedures and schedules from 40 CFR Part 75 to meet its QA obligations under Subpart GG. Based upon our review of Duke’s letter, this proposal is acceptable to the U.S. Environmental Protection Agency (EPA), Region 4. Details regarding the company’s proposal and the basis for our determination are provided in the remainder of this letter.

Duke uses continuous emission monitoring systems (CEMS) for nitrogen oxides (NOx) excess emission reporting under Subpart GG. Based upon a previous EPA determination dated March 12, 1993, owners and operators must comply with requirements in 40 CFR Part 60, Appendix F (Quality Assurance Procedures) if they use CEMS to monitor NOx excess emissions under Subpart GG. Two of the QA provisions from Appendix F addressed in Duke’s letter are the requirement to conduct cylinder gas audits (CGAs) on a quarterly basis and the requirement to conduct relative accuracy test audits (RATAs) on an annual basis. Under QA provisions in Appendix B of 40 CFR Part 75, owners and operators are required to conduct quarterly linearity checks that are similar to CGAs. RATAs under 40 CFR Part 75 must be conducted on either a semiannual basis or an annual basis, and the actual RATA frequency for a given unit depends upon the relative accuracy results during the most recent test.

One significant difference between the QA provisions in 40 CFR Part 60, Appendix F and those in EPA’s acid rain rules is that 40 CFR Part 75 bases the deadlines for linearity checks and RATAs upon QA operating quarters (defined as a calendar quarter in which there are at least 168 unit operating hours), rather than calendar quarters. Since the QA testing frequency under 40 CFR Part 75 is based upon QA operating...
quarters, the acid rain rules do not require linearity testing during calendar quarters when a unit operates for fewer than 168 hours. In addition, more than four calendar quarters may elapse between RATAs if there are calendar quarters when a unit does not operate for at least 168 hours. Although calendar quarters when a unit operates fewer than 168 hours do not count toward deadlines for conducting linearity tests and RATAs under the acid rain rule, 40 CFR Part 75 does specify that linearity tests and RATAs must be conducted at least once every eight calendar quarters. Another difference between the QA provisions in 40 CFR Part 75 and 40 CFR Part 60, is that the acid rain rule provides for a grace period that allows owners/operators additional time after the beginning of a QA operating quarter to complete a linearity check or a RATA if they were unable to complete a test during the previous QA operating quarter when a test was due. The duration of the grace period is 168 unit operating hours for linearity tests and 720 unit operating hours for RATAs.

In its letter to your agency, Duke asked that it be allowed to use the QA schedules and procedures from 40 CFR Part 75 to meet its QA obligations 40 CFR Part 60, Subpart GG. According to Duke’s letter, this request is based upon the infrequent operation of the units at Brownsville Power. In addition, the company cited previous determinations in which EPA had approved similar requests. Since the peaking units at Brownsville Power operate intermittently, there may be calendar quarters when the units either run on a limited basis or do not operate at all. Requiring that Duke conduct CGAs or RATAs during such quarters will not enhance the QA program for the units significantly, but it may waste resources by forcing the company to fire the turbines only for CEMS testing purposes. Based upon these factors, and based upon EPA’s previous approval of requests similar to the one from Duke, the company’s proposal to use the QA procedures and schedules from the acid rain rules to meet its quality assurance obligations under both 40 CFR Part 60, Subpart GG and 40 CFR Part 75 is acceptable to EPA Region 4.

If you have any questions about the determination provided in this letter, please contact Mr. David McNeal of the EPA Region 4 staff at (404) 562-9102.

Sincerely,

[Signature]
Beverly H. Banister
Director
Air, Pesticides and Toxics
Management Division

cc: Jeryl Stewart
Division of Air Pollution Control
Tennessee Department of Environment & Conservation
ATTACHMENT 7

TITLE V FEE SELECTION FORM (APC 36)
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.

<table>
<thead>
<tr>
<th>Source ID</th>
<th>Pollutant</th>
<th>Allowable or Actual Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>If allowable emissions: Specify condition number and limit.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If actual emissions: Describe calculation method and provide example. Provide condition number that specifies method, if applicable.</td>
</tr>
</tbody>
</table>
### 8. (Continued)

<table>
<thead>
<tr>
<th>Source ID</th>
<th>Pollutant</th>
<th>Allowable or Actual Emissions</th>
<th>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.</th>
</tr>
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</tbody>
</table>

### CONTACT INFORMATION (BILLING)

9. Billing contact

<table>
<thead>
<tr>
<th>Mailing address (St./Rd./Hwy.)</th>
<th>Phone number with area code</th>
</tr>
</thead>
<tbody>
<tr>
<td>City</td>
<td>State</td>
</tr>
</tbody>
</table>

### SIGNATURE BY RESPONSIBLE OFFICIAL

Based upon information and belief formed after reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in the submittal is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

10. Signature

<table>
<thead>
<tr>
<th>Signer’s name (type or print)</th>
<th>Title</th>
<th>Phone number with area code</th>
</tr>
</thead>
</table>
ADDENDUM TO
TITLE V PERMIT STATEMENT

Facility Name: Tennessee Valley Authority – Brownsville Combustion Turbine Plant
City: Brownsville
County: Haywood

Applications Dated: July 01, 2021
Date Application Deemed Complete: July 01, 2021

Emission Source Reference No.: 38-0068
Permit No.: 572889

INTRODUCTION

This narrative is being provided to assist the reader in understanding the content of the attached Title V operating permit, and 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 the above referenced facility, and to provide practical methods for assuring compliance with these requirements. This 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
GHGs - Greenhouse Gases
CAM - Compliance Assurance Monitoring
I. Identification Information

A. Source Description
   This source is an electric power generating facility, consisting of four (4) natural gas-fired simple-cycle combustion turbines, and a natural gas fired fuel heater.

B. Facility Classification
   1. Attainment or Non-Attainment Area Location
      Area is designated as an attainment area for all criteria pollutants.
   2. Company is located in a Class II area. (this means that the facility is not located within a national park or national wilderness area; see 40 CFR 52.21(e) for complete definition).

C. Regulatory Status
   1. PSD/NSR
      This facility is a major source under PSD/NSR for PM/PM$_{10}$/PM$_{2.5}$, SO$_2$, NO$_X$, CO, VOC, and GHGs (CO$_2$e).
   2. Title V Major Source Status by Pollutant

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Is the pollutant emitted?</th>
<th>If emitted, what is the facility’s status?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Major Source Status</td>
</tr>
<tr>
<td>PM</td>
<td>Yes</td>
<td>X</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>Yes</td>
<td>X</td>
</tr>
<tr>
<td>SO$_2$</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>VOC</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>NO$_X$</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Individual HAP</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Total HAPs</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>CO$_2$e</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

   3. MACT Standards
      This facility is an area source of HAP emissions, and is not subject to a final MACT Standard.

   4. Program Applicability
      Are the following programs applicable to the facility?
      PSD: yes
      NESHAP: no
      NSPS: 40 CFR 60, Subpart GG
             40 CFR 60, Subpart Dc

II. Compliance Information

A. Compliance Status
   Is the facility currently in compliance with all applicable requirements?
   If no, explain. (yes)

   Are there any applicable requirements that will become effective during the permit term?
   If yes, explain. (no)
III. Other Requirements

A. Emissions Trading
The Transport Rule (CSAPR) requirements are referenced in the major source (Title V) operating permit (see Attachment 5).

B. Acid Rain Requirements
The Acid Rain renewal permit for this facility (#874934) is to be issued along with the major source (Title V) operating permit renewal (see Attachment 2), in accordance with requirements of Title IV of the Clean Air Act.

C. Prevention of Accidental Releases
Not Applicable

D. Greenhouse Gas (GHG) Emissions
This facility is a major source of greenhouse gas emissions.

E. Compliance Assurance Monitoring
This facility is not subject to the requirements under 40 CFR part 64 (Compliance Assurance Monitoring). The pollutant specific emissions units included in this permit do not use a control device, as defined in 40 CFR §64.1, to achieve compliance with an emission limitation or standard (a control device does not include passive control measures that act to prevent pollutants from forming, such as the use of combustion or other process design features or characteristics).

IV. Public Participation Procedures

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

1. U.S. EPA – Region IV
2. State of Arkansas, State of Missouri, State of Mississippi
3. Memphis/Shelby County
4. Jackson EFO

V. Permit History

Title V Operating Permit No. 572889 represents the second renewal of the original Title V Permit No. 553294 issued March 4, 2004. The following changes have occurred under the original Title V permit and subsequent renewals:

- Remove requirement to monitor water injection rate in conformance with amended Part 60, Subpart GG option to operate a qualifying CEMs in lieu of monitoring the water injection rate
- Annual quality assurance procedure was modified to reflect the frequency requirements of 40 CFR 75 to meet the source’s obligation under Part 60, Subpart GG
- Facility ownership change from Brownsville Power to TVA-BCT
- Opacity matrix was updated
- Per update to application in April 2011, this facility is a major source of greenhouse gas emissions, as the facility’s PTE for GHGs was determined to be greater than 100,000 tons per year of carbon dioxide equivalents
- Acid Rain permit renewal incorporated into the Title V permit
- Transport rule (CSAPR) requirements was incorporated into the Title V permit
- Heat input rate for fuel heater corrected
- Per applicant’s request, annual CO limit is increased to 249 tons per year
# RESPONSE TO COMMENTS

## General Information

<table>
<thead>
<tr>
<th>Facility Name:</th>
<th>TVA – Brownsville Combustion Turbine Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Source Reference No.:</td>
<td>38-0068</td>
</tr>
<tr>
<td>Permit No.:</td>
<td>572889</td>
</tr>
<tr>
<td>Date Application Received:</td>
<td>June 29, 2018</td>
</tr>
<tr>
<td>Date Application Deemed Complete:</td>
<td>June 29, 2018</td>
</tr>
<tr>
<td>Date of Public Notice:</td>
<td>November 7, 2018</td>
</tr>
<tr>
<td>Date of Public Hearing:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

## For Public Hearing (If Applicable)

| Hearing Officer: |  |
| Division of Air Pollution Control Representatives: |  |
| Other Divisions: |  |
| Public: |  |

## Comment Summary

<table>
<thead>
<tr>
<th>Commenter</th>
<th>Comment</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No comments received from either EPA or public</td>
<td></td>
</tr>
</tbody>
</table>
I. Significant Modification #1 to Title V Permit 572889

A. Changes made as a result of this modification

- Application dated July 01, 2021
- The significant modification incorporates the changes made, including the relaxation of annual emission limits, under PSD permit number 976987.
- Sections A, B, C, and D were updated as per the new permit template
- Condition E1 was revised to include information related to the Title V Fee Selection form and to update the emissions in the fee emissions summary table.
- Condition E2 was revised.
- Some of general permit requirements under E3 have been updated like Conditions E3-2, E3-3, and E3-10; Condition E3-11 has been added.
- Conditions E4-1 through E4-16 have been revised to incorporate the conditions established in PSD construction permit number 976987.

B. Plantwide Allowable Emissions (ton/yr) following the modification

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PM</th>
<th>PM$_{10}$</th>
<th>SO$_2$</th>
<th>CO</th>
<th>VOC</th>
<th>NOx</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source (38-0068)</td>
<td>121.6</td>
<td>421.8</td>
<td>51.0</td>
<td>1,457.9</td>
<td>373</td>
<td>1,720</td>
</tr>
</tbody>
</table>

C. Public Participation Important Dates

EPA concurrent review requested
Public Notice publication date
Public Notice period completion date
Public Notice publication comments
EPA Notification date
EPA review period completion date
EPA review comments