

## PUBLIC NOTICE

**Powell Valley Electrical Cooperative** has applied to the Tennessee Department of Environment and Conservation, Division of Air Pollution Control for a renewal 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 (573138).

The applicant is **Powell Valley Electrical Cooperative**, with a site address of 8806 Kyles Ford Highway, Kyles Ford, Tennessee 37765. They have applied for renewal of their existing major source operating permit for their back-up utility power generating facility (proposed Permit Number 582139). This existing facility consists of eleven 2,628 horsepower diesel-fired engine/generator sets that provide back-up power to the Tennessee Valley Authority (TVA) during periods of high demand.

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://permitsearch.epa.gov/oms-permit-hub/?media=air&type=TITLE\\_V&state=TN](https://permitsearch.epa.gov/oms-permit-hub/?media=air&type=TITLE_V&state=TN)

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

Johnson City Environmental Field Office  
Division of Air Pollution Control  
2305 Silverdale Road  
Johnson City, TN 37601

and Tennessee Department of Environment and Conservation  
Division of Air Pollution Control  
Davy Crockett Tower, 7<sup>th</sup> Floor  
500 James Robertson Parkway  
Nashville, TN 37243

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

<https://www.tn.gov/environment/ppo-public-participation/ppo-public-participation/ppo-air.html>

Questions concerning the source(s) may be addressed to Michael Vergamini at (615) 306-5443 or by e-mail at [michael.vergamini@tn.gov](mailto:michael.vergamini@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 21, 2025. 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, Davy Crockett Tower, 7<sup>th</sup> Floor, 500 James Robertson Parkway, Nashville, Tennessee 37243.
2. **E-mail:** Submit electronic comments to [air.pollution.control@tn.gov](mailto: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, Davy Crockett Tower, 6<sup>th</sup> Floor, 500 James Robertson Parkway, Nashville, TN 37243, (615) 532-0200. 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



**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:** **PROPOSED DRAFT**

**Permit Number:**

**Date Expires:**

582139

**Issued To:**

Powell Valley Electric Cooperative

**Installation Address:**

8806 Kyles Ford Highway  
Kyles Ford

**Installation Description:**

Eleven (11) 2,628 hp Diesel-Fired Generator  
Engines with Diesel Oxidation Catalysts (DOCs)

**Facility ID:** 34-0014

**Renewal Application Due Date:**

Between \*\*\*\*\* and \*\*\*\*\*

**Primary SIC:** 49

**Information Relied Upon:**

Title V Permit renewal application dated February 1, 2024

(continued on the next page)

\_\_\_\_\_  
TECHNICAL SECRETARY

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

**POST AT INSTALLATION ADDRESS**

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ATTACHMENT 3	PVEC Stack Test Waiver Request Letter Dated July 17, 2013; USEPA Region 7 Stack Testing Request Letter Dated November 14, 2012; TDAPC Approval of PVEC Stack Testing Waiver Request Letter Dated September 10, 2013; and TDAPC Correspondence with EPA Region 4	7 pages
ATTACHMENT 4	Applicability of General Provisions to 40 CFR 63 Subpart ZZZZ	3 pages
ATTACHMENT 5	Title V Fee Selection Form (APC 36)	2 pages
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## SECTION A

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### GENERAL PERMIT CONDITIONS

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A permit issued under the provisions of Tennessee Air Pollution Control Regulations (TAPCR) 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 regulations.

TAPCR 1200-03 and 0400-30

- A2. **Compliance requirement.** All terms and conditions in a permit issued pursuant to TAPCR paragraph 1200-03-09-.02(11), including any provisions designed to limit a source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act. The permittee shall comply with all conditions of its permit. Except for requirements specifically designated herein as not being federally enforceable (State Only), non-compliance with the permit requirements is a violation of the Federal Act and the Tennessee Air Quality Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Non-compliance with permit conditions specifically designated herein as not being federally enforceable (State Only) is a violation of the Tennessee Air Quality Act and may be grounds for these actions.

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

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

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

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

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

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

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

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

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

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

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

**A8. Fee payment.**

(a) The permittee shall pay an annual Title V fee in accordance with TAPCR 1200-03-26-.02(9) based upon the applicable base fee; the applicable permit modification fee(s); 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 the applicable base fee; the applicable permit modification fee(s); and 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 TAPCR Rule 1200-03-26-.02 and paragraph 1200-03-09-.02(11) applicable to such fees.

(d) Where more than one allowable emission limit is applicable to a regulated pollutant, the allowable emissions for the regulated pollutants shall not be double counted. Major sources subject to the provisions of TAPCR paragraph 1200-03-26-.02(9) shall apportion their emissions as follows to ensure that their fees are not double counted.

1. Emissions of hazardous air pollutants (HAP) that are included in the particulate matter (including PM<sub>10</sub>) category or the volatile organic compound category shall be included in those categories.

2. HAP that are not included in either the particulate matter category or volatile organic compound category shall be included in the category of Hazardous Air Pollutants Not Included Above.

3. Each individual HAP is subject to the 4,000-ton cap provisions of TAPCR subparagraph 1200-03-26-.02(2)(i).

4. Major sources that wish to pay annual emission fees for PM<sub>10</sub> on an allowable emission basis may do so if they have a specific PM<sub>10</sub> allowable emission standard. If a major source has a total particulate emission standard, but wishes to pay annual emission fees on an actual PM<sub>10</sub> emission basis, it may do so if the PM<sub>10</sub> actual emission levels are proven to the satisfaction of the Technical Secretary. The method to demonstrate the actual PM<sub>10</sub> emission levels must be made as part of the source's major source operating permit in advance in order to exercise this option. The PM<sub>10</sub> emissions reported under these options shall not be subject to fees under the family of particulate emissions. The 4,000-ton cap provisions of TAPCR subparagraph 1200-03-26-.02(2)(i) shall also apply to PM<sub>10</sub> emissions.

(e) Emissions of pollutants that do not fall in one of the listed categories shall be included in the category of Miscellaneous Pollutants Not Listed Above. Each miscellaneous pollutant is subject to the 4,000-ton cap provisions.

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

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

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

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

(a) Enter upon, at reasonable times, the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

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

(c) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

(d) As authorized by the Clean Air Act and Chapter 1200-03-10 of the 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, TAPCR Division 1200-03 or any permit issued pursuant thereto and the Technical Secretary specifically authorizes an inspector to inspect a facility at any other time.

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

**A11. Permit shield.**

- (a) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date of permit issuance, provided that:
1. Such applicable requirements are included and are specifically identified in the permit; or
  2. The Technical Secretary, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
- (b) Nothing in this permit shall alter or affect the following:
1. The provisions of section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section. Similarly, the provisions of T.C.A. §68-201-109 (emergency orders) including the authority of the Governor under the section;
  2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
  3. The applicable requirements of the acid rain program, consistent with section 408(a) of the Federal Act; or
  4. The ability of EPA to obtain information from a source pursuant to section 114 of the Federal Act.
- (c) Permit shield is granted to the permittee.
- (d) The permit shield does not apply to permit changes made under the minor permit modification procedures of TAPCR subpart 1200-03-09-.02(11)(f)5(ii) nor the administrative permit amendment procedures of TAPCR part 1200-03-09-.02(11)(f)4, except that the permit shield may be extended for administrative permit amendments that meet the relevant requirements of TAPCR subparagraph 1200-03-09-.02(11)(e), subparagraph 1200-03-09-.02(11)(f) and subparagraph 1200-03-09-.02(11)(g) for significant permit modifications.
- (e) The permit shield does not apply to off-permit changes made under the operational flexibility provisions of TAPCR part 1200-03-09-.02(11)(a)4.

TAPCR 1200-03-09-.02(11)(e)6 and 1200-03-09-.02(11)(f)4(iv)

**A12. Permit renewal and expiration.**

- (a) An application for permit renewal must be submitted at least 180 days, but no more than 270 days, prior to the expiration of this permit. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted.
- (b) If the permittee submits a timely and complete application for permit renewal the source will not be considered to be operating without a permit until the Technical Secretary takes final action on the permit application, except as otherwise noted in TAPCR 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 TAPCR part 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 TAPCR paragraph 1200-03-09-.03(6), and
- (b) written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Technical Secretary.

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

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

**A16. Construction permit required.** Except as exempted in TAPCR Rule 1200-03-09-.04, or excluded in TAPCR subparagraph 1200-03-02-.01(1)(aa) or TAPCR subparagraph 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 and no later than required by the provisions of the new applicable requirement. 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, 1200-03-09-.03(8), 0400-30-38, 0400-30-39, 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.

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

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

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

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## SECTION B

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

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

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

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

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

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

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

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

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

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

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

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

- (a) The identification of each term or condition of the permit that is the basis of the certification;
- (b) The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period; such methods and other means shall include, at a minimum, the methods and means required by this permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Federal Act, which prohibits knowingly making a false certification or omitting material information;
- (c) The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in B5(b) above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion\* or exceedance\*\* as defined below occurred; and
- (d) Such other facts as the Technical Secretary may require to determine the compliance status of the source.

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

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

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

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

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

**B7. Reserved**

**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 TAPCR 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, the probable cause of the deviation, and any corrective actions or preventative measures taken. 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 TAPCR 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
5. The company employee making entry on the log must sign, date, and indicate the time of each log entry

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

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

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

TAPCR 1200-03-20-.02

- B10.** Reserved.

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

- (a) The identity of the stack and/or other emission point where the excess emission(s) occurred;
- (b) The magnitude of the excess emissions expressed in pounds per hour and the units of the applicable emission limitation(s) 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 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)

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## SECTION C

### PERMIT CHANGES

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- 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 TAPCR Chapter 1200-03-30.
  - (b) The change cannot be a modification under any provision of Title I of the federal Act or TAPCR 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 TAPCR 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 TAPCR 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 TAPCR 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 part 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 part 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 TAPCR part 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 part 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 subparagraph 1200-03-09-.02(11)(e), TAPCR subparagraph 1200-03-09-.02(11)(f) and TAPCR subparagraph 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 subpart 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 subpart 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 Rule 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 part 1200-03-09-.02(11)(f)4 or the significant modification route of TAPCR subpart 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 subpart 1200-03-09-.02(11)(f)5(ii) or group processing of minor modifications under the provisions of TAPCR subpart 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)



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## SECTION D

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### GENERAL APPLICABLE REQUIREMENTS

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**D1. Visible emissions.**

(a) 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 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 20 percent (6-minute average) except for one six minute period per one hour of not more than 40 percent opacity. Sources constructed or modified after July 7, 1992, shall utilize 6-minute averaging.

(b) 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 Chapter 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 Chapter 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 part 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 Chapter 1200-03-14. Regardless of the specific emission standard, new process sources shall utilize the best available control technology as deemed appropriate by the Technical Secretary of the Tennessee Air Pollution Control Board.

**D7. Fugitive Dust.**

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

1. Use, where possible, of water or chemicals for control of dust in demolition of existing buildings or structures, construction operations, grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, material stockpiles, 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 20 minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in TAPCR Chapter 1200-03-20.

TAPCR 1200-03-08

**D8. Open burning.** The permittee shall comply with the TAPCR Chapter 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 40 CFR Part 61 when conducting any renovation or demolition activities at the facility.

TAPCR 0400-30-38-.01(2) 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 insignificant emission units or activities. By annual certification of compliance with the conditions in this Section the permittee shall be considered to meet the monitoring and related record keeping and reporting requirements of TAPCR subpart 1200-03-09-.02(11)(e)1(iii) and part 1200-03-10-.04(2)(b)1 and the compliance requirements of TAPCR subpart 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.** The permittee shall comply with all applicable requirements of TAPCR Chapter 0400-30-38 for all emission sources subject to a requirement contained therein.

**D12. Standards of Performance for New Stationary Sources.** The permittee shall comply with all applicable requirements of TAPCR chapters 0400-30-39 and 1200-03-16 for all emission sources subject to a requirement contained therein.

**D13. Gasoline Dispensing Facilities.** The permittee shall comply with all applicable requirements of TAPCR Rule 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 Rule 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 Chapter 0400-30-39.

(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 Chapter 0400-30-39.

TAPCR 0400-30-38 and 39

**D15. Routine Maintenance Requirements.** The permittee shall maintain and repair each 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)

## SECTION E

### SOURCE SPECIFIC EMISSION STANDARDS, OPERATING LIMITATIONS, AND MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

<b>34-0014</b>	<b><u>Facility Description:</u></b>	Powell Valley Electric Cooperative, Inc. (PVEC) is a consumer-owned utility company that provides electricity to northeast Tennessee and southwest Virginia. PVEC's facility in Kyles Ford, Tennessee consists of eleven 2,628 hp diesel-fired engine/generator sets that provide back-up utility power to the Tennessee Valley Authority (TVA) during periods of high demand. No. 2 fuel oil (diesel) is the only fuel source used in the engines and is provided by TVA. Each engine is equipped with a Diesel Oxidation Catalyst (DOC) to control and reduce carbon monoxide (CO) emissions. [NESHAP, Subpart ZZZZ]
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**Conditions E1 through E3-7** apply to all sources in Section E of this permit unless otherwise specified.

#### E1. Fee payment

**FEE EMISSIONS SUMMARY TABLE FOR MAJOR SOURCE 34-0014**

REGULATED POLLUTANTS	ALLOWABLE EMISSIONS (tons per AAP)	ACTUAL EMISSIONS (tons per AAP)	COMMENTS
<b>PARTICULATE MATTER (PM)</b>	<b>2.1</b>	<b>AEAR</b>	
<b>SO<sub>2</sub></b>	<b>40.6</b>	<b>AEAR</b>	
<b>VOC</b>	<b>3.6</b>	<b>AEAR</b>	
<b>NO<sub>x</sub></b>	<b>249.8</b>	<b>AEAR</b>	
<b>Facility-Wide Total HAP Limit</b>	<b>N/A</b>		
<b>Facility-Wide Individual HAP Limit</b>	<b>N/A</b>		
<b>HAZARDOUS AIR POLLUTANTS (HAPs) NOT INCLUDED ABOVE*</b>			
<b>N/A</b>			
<b>MISCELLANEOUS POLLUTANTS NOT LISTED ABOVE**</b>			
<b>EACH MISC POLLUTANT NOT LISTED ABOVE</b>			
<b>N/A</b>			

#### NOTES

**AAP** The Annual Accounting Period (AAP) is a 12 consecutive month period that **either (a) begins each July 1st and ends June 30<sup>th</sup> of the following year when fees are paid on a fiscal year basis, or (b) begins January 1<sup>st</sup> and ends December 31<sup>st</sup> of the same year when paying on a calendar year basis.** The AAP at the time of permit renewal issuance **began July 1, 2025, and ends June 30, 2026.** The next AAP begins **July 1, 2026, and ends June 30, 2027,** 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 in Attachment 5 to this permit and available on the Division of Air Pollution Control's website.**

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

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

- (1) **each regulated pollutant** (Particulate matter [PM], SO<sub>2</sub>, VOC, NO<sub>x</sub> and so forth. See TAPCR 1200-03-26-.02(2)(i) for the definition of a regulated pollutant.),
- (2) the **"HAP Not Included Above" Category (non-VOC and non-PM HAP not included in a facility-wide limit)**, and
- (3) the **Miscellaneous Category**

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

\* **Hazardous Air Pollutants Not Included Above:** This category is made-up of hazardous air pollutants that are not included in the VOC or PM category, such as HCl and HF, and are not included in a facility-wide HAP emission limitation. **For fee computation**, each individual hazardous air pollutant is subject to the 4,000-ton cap provisions of subparagraph 1200-03-26-.02(2)(i) of the TAPCR.

\*\* **Miscellaneous Pollutants Not Listed Above:** This category is for pollutants that are not included in one of the other categories but for which an emission limitation has been established in this permit (including NSPS pollutants). **For fee computation**, each pollutant in this category is subject to the 4,000-ton cap provisions of subparagraph 1200-03-26-.02(2)(i).

#### END NOTES

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- The permittee shall:**
- (1) Pay Title V **annual fees** (including the emissions fee, base fee, significant modification fee, and minor modification fee), 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)(a). 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 fees on an allowable emissions basis: pay annual fees for each AAP no later than April 1 of each year pursuant to TAPCR 1200-03-26-.02(9)(d). TAPCR 1200-03-26-.02(9)(a)2(i)
  - (3) Sources paying annual fees on a calendar year basis and an actual or mixed emissions basis: pay annual allowable based emission fees for each AAP no later than April 1 of each year pursuant to TAPCR 1200-03-26-.02(9)(d), except as allowed by TAPCR 1200-03-26-.02(9)(g)3. TAPCR 1200-03-26-.02(9)(a)2(ii)
  - (4) Sources paying annual fees on a fiscal year basis and an actual or mixed emissions basis: for each AAP, pay an estimated 65% of the fee due no later than April 1 of the current fiscal year. The remainder of the fee for each annual accounting period is due no later than August 1 of each year pursuant to TAPCR 1200-03-26-.02(9)(d), except as allowed by TAPCR 1200-03-26-.02(9)(g)3. TAPCR 1200-03-26-.02(9)(a)2(iii)
  - (5) Sources paying annual 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 Fee Year 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**.

TAPCR 1200-03-26-.02(9)(g)2

- (6) Sources paying annual fees on a Fee Choice of a mixed emissions basis: for all pollutants and all sources for which the permittee has chosen an actual emissions basis, prepare an **actual emissions analysis** for each AAP and pay **actual based emission fees** pursuant to TAPCR 1200-03-26-.02(9)(d). The **actual emissions analysis** shall include:

(a) the completed **Fee Emissions Summary Table**,

(b) each **actual emissions analysis** required, and

(c) the actual emission records for each pollutant and each source as required for actual emission fee determination, or a summary of the actual emission records required for fee determination, as specified by the Technical Secretary or the Technical Secretary's representative. The summary must include sufficient information for the Technical Secretary to determine the accuracy of the calculations. These calculations must be based on the Fee Year 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 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).

TAPCR 1200-03-26-.02(9)(g)2

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

TAPCR 1200-03-26-.02(9)(g)2

- (8) Include with each required AEAR report the following statement signed by the Responsible Official: *"I have reviewed this document in its entirety, and to the best of my knowledge, based on information and belief formed after reasonable inquiry, the statements and information contained in this document are true, accurate, and complete."*

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

The annual fee due dates are specified in TAPCR 1200-03-26-.02(9)(a) 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:**

Tennessee Department of Environment and Conservation  
Division of Fiscal Services  
Consolidated Fee Section – APC  
Davy Crockett Tower, 6<sup>th</sup> Floor  
500 James Robertson Parkway  
Nashville, Tennessee 37243

**Actual Emissions Analyses to:**

A "Title V Emissions Summary Form" and the AEAR must be submitted electronically as directed by the Division. Additional information can be found at <https://www.tn.gov/environment/air/inventory.html>

TAPCR 1200-03-26-.02(3), (8), and (9), and TAPCR 1200-03-09-.02(11)(e)1(vii)

## **E2. 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 period. Subsequent reports shall be submitted within 60 days after the end of each 6-month period following the first report. The first semiannual report following issuance of this permit shall cover the following permits and reporting periods:

Permit Number	Reporting Period Begins	Reporting Period Ends
573138	July 1, 2025	Day Before <b>ISSUE DATE</b>
582139	<b>ISSUE DATE</b>	December 31, 2025

These semiannual reports shall include:

- (1) Any monitoring and recordkeeping required by conditions **E4-2, E4-3, E4-4, E4-5, E4-6, and E4-7** of this permit. However, a summary report of this data is acceptable provided there is sufficient information to enable the Technical Secretary to evaluate compliance.
- (2) The visible emission evaluation readings from condition **E3-2** 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**. The record of deviations/excursions shall include, at a minimum, the time the deviation/excursion was discovered, the corrective action taken, and the time that the deviation/excursion was rectified.

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

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

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

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

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

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

Annual compliance certifications shall cover the 12-month period from **January 1** to **December 31** and shall be submitted within 60 days after the end of each 12-month period. The first annual compliance certification following issuance of this permit shall cover the following permits and reporting periods:

Permit Number	Reporting Period Begins	Reporting Period Ends
573138	January 1, 2025	Day before <b>ISSUE DATE</b>
582139	<b>ISSUE DATE</b>	December 31, 2025

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

Tennessee Department of Environment and Conservation  
 Johnson City Environmental Field Office  
 Division of Air Pollution Control  
 2305 Silverdale Road  
 Johnson City, TN 37601

and

**Air Enforcement Branch**  
**US EPA Region IV**  
**61 Forsyth Street, SW**  
**Atlanta, Georgia 30303**

or

[APC.JCEFO@tn.gov](mailto:APC.JCEFO@tn.gov)

or

**Through the EPA CDX**  
**(<https://cdx.epa.gov/>)**

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

- (c) **NESHAP Reporting.** Pursuant to 40 CFR §63.6650 and **Condition F1-12** of this permit, the permittee must submit semiannual compliance reports for 40 CFR 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines to the Division. The semiannual compliance 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. Semiannual compliance reports shall contain the records required by **Condition F1-12** of this permit and shall be submitted to:

State of Tennessee  
 Department of Environment and Conservation  
 Division of Air Pollution Control – Permitting Program  
 Davy Crockett Tower, 7<sup>th</sup> Floor  
 500 James Robertson Parkway  
 Nashville, TN 37243

or

[Air.Pollution.Control@tn.gov](mailto:Air.Pollution.Control@tn.gov)

***Beginning on February 26, 2025***, or one year after the report becomes available in CEDRI, whichever is later, the permittee must **also** submit all semiannual compliance reports to EPA using the appropriate electronic report template for Subpart ZZZZ on the CEDRI website (<https://www.epa.gov/electronic-reporting-air-emissions/cedri>) and following the procedure specified in 40 CFR §63.9(k), except any confidential business information (CBI) must be submitted according to the procedures in §63.6645(h). The date report templates become available will be listed on the CEDRI website. Each report must be submitted within 60 days after the end of each six-month reporting period.

40 CFR §63.6650, TAPCR 1200-03-09-.03(8), 1200-03-10-.02(2)(a), and 0400-30-38-.01

**Note that each NESHAP Report, Title V Semiannual Report (SAR), and each Title V Annual Compliance Certification (ACC) must be submitted under separate cover and each report must be accompanied by a separate compliance certification statement.**

- (d) **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 Requirements****E3-1. 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 February 1, 2024, and signed by Brad Coppock, General Manager of the permitted facility. If this person terminates employment or is assigned different duties and is no longer a Responsible Official for this facility as defined in part 1200-03-09-.02(11)(b)21 of the Tennessee Air Pollution Control Regulations, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification must be in writing and must be submitted within 30 days of the change. The notification shall include the name and title of the new Responsible Official and certification of truth and accuracy. All representations, agreement to terms and conditions, and covenants made by the former Responsible Official that were used in the establishment of the permit terms and conditions will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements, and/or covenants.
- (b) The application that was utilized in the preparation of this permit is dated February 1, 2024, and identifies Brad Coppock, General Manager as the Principal Technical Contact for the permitted facility. If this person terminates employment or is assigned different duties and is no longer the Principal Technical Contact for this facility, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification must be in writing and must be submitted within 30 days of the change. The notification shall include the name and title of the new Principal Technical Contact and certification of truth and accuracy.
- (c) The application that was utilized in the preparation of this permit is dated February 1, 2024, and identifies John Hoyle 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)

- E3-2.** Unless otherwise specified, visible emissions from the sources at 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 from this source shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

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

**Compliance Method:** The permittee shall assure compliance with the opacity standard by utilizing the opacity matrix dated June 18, 1996, and amended on September 11, 2013, that is enclosed as **Attachment 1**.

If the magnitude and frequency of excursions reported by the permittee in the periodic monitoring for emissions is unsatisfactory to the Technical Secretary, this permit may be reopened to impose additional opacity monitoring requirements.

- E3-3.** Records of all repair and maintenance activities required by **Condition D15** shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than five years. 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.

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

- E3-4.** The source(s) controlled by the air pollution control device(s) shall not operate unless the control device(s) is in operation. In the event a malfunction/failure of a control device(s) occurs, the operation of the process(es) controlled by the control device(s) shall be regulated by the provisions of Chapter 1200-03-20 of the Tennessee Air Pollution Control Comprehensive Rules and Regulations.

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

**E3-5.** The following recordkeeping requirements shall apply to this facility:

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

**Compliance Method:** Logs and records specified in this permit shall be kept readily available/accessible and 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 or equivalent information that is required. Computer-generated logs are also acceptable.

**E3-6.** This source(s) shall comply with all applicable state and federal air pollution regulations. This includes, but is not limited to, all applicable provisions of the Tennessee Air Pollution Control Comprehensive Rules and Regulations, federal regulations published under 40 CFR 61 and 40 CFR 63 for sources of hazardous air pollutants, and federal regulations published under 40 CFR 60, New Source Performance Standards.

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

**E3-7.** At the time of application, the potential to emit hazardous air pollutants from this facility was less than the major source applicability thresholds of 10 tons per year of a single hazardous air pollutant (HAP) and less than 25 tons per year of a combination of HAP. The permittee must apply for and receive a construction permit in accordance with the procedures in Chapter 1200-03-09 of the Tennessee Air Pollution Control Regulations (TAPCR) prior to making any changes such that the potential to emit HAP from the facility will meet and/or exceed these thresholds.

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

**Source-Specific Permit Requirements**

<b>34-0014-01 through 11</b>	<b>Eleven (11) Diesel-Fired Engines</b>	Eleven 2,628 hp diesel-fired demand response engines with diesel oxidation catalysts. The engines are used as a back-up source of utility power for the Tennessee Valley Authority (TVA) during periods of high demand. No. 2 fuel oil is the only fuel source used in the engines and is provided by TVA. Each engine is equipped with a diesel oxidation catalyst (DOC) to control and reduce carbon monoxide (CO) emissions.  40 CFR 63, Subpart ZZZZ
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**E4-1.** The rated horsepower, rated heat input capacities, and fuel type for the demand response engines are provided in the table below. Should the permittee need to modify this source in a manner that increases the rated horsepower and/or rated heat input capacity or allows for use of a fuel other than the fuel type listed for any engine, the permittee shall pursue the appropriate Title V procedure in accordance with TAPCR 1200-03-09-.02(11). If a construction permit is applied for, this shall be done in accordance with TAPCR 1200-03-09-.01 prior to making the change.

Engine ID	ICE ID	Manufacture Date	Ignition Type	Rated Horsepower	Rated Heat Input (x10 <sup>6</sup> Btu/hr.)	Fuel Type
1	Caterpillar 3516B	1999	Compression	2,628	17.47	Diesel
2	Caterpillar 3516B	1999	Compression	2,628	17.47	Diesel
3	Caterpillar 3516B	1999	Compression	2,628	17.47	Diesel
4	Caterpillar 3516B	1999	Compression	2,628	17.47	Diesel
5	Caterpillar 3516B	2001	Compression	2,628	17.47	Diesel
6	Caterpillar 3516B	1999	Compression	2,628	17.47	Diesel



Engine ID	ICE ID	Manufacture Date	Ignition Type	Rated Horsepower	Rated Heat Input (x10 <sup>6</sup> Btu/hr.)	Fuel Type
7	Caterpillar 3516B	1999	Compression	2,628	17.47	Diesel
8	Caterpillar 3516B	1999	Compression	2,628	17.47	Diesel
9	Caterpillar 3516B	1999	Compression	2,628	17.47	Diesel
10	Caterpillar 3516B	1999	Compression	2,628	17.47	Diesel
11	Caterpillar 3516B	1999	Compression	2,628	17.47	Diesel

TAPCR 1200-03-09-.01(1) and the applications dated July 26, 1999, and June 11, 2001.

**Compliance Method:** The permittee shall maintain documentation to substantiate the rated horsepower, heat input capacity, and fuel type for the demand response engines. Documentation shall include, but is not limited to, manufacturer's specifications, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. These documents shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

- E4-2.** Operating hours for all 11 engines shall not exceed 9,790 hours combined during all intervals of 12 consecutive months. This limit allows the facility to avoid PSD applicability (PSD avoidance).

TAPCR 1200-03-09-.01(4), 1200-03-10-.02(2), and the agreement letter dated July 17, 2025

**Compliance Method:** The permittee shall maintain a monthly log of the hours of operation for each engine at the facility, the total hours of operation for all engines each month, and the total hours of operation for all 11 engines combined during each period of 12 consecutive months. This information shall be recorded in a log (see example below or use a similar format that readily provides the same information). All data, including all logs and calculations, must be kept readily available for inspection by the Technical Secretary or a Division representative upon request. All records must be retained in accordance with **Condition E3-5**. These logs may be retained at the facility or at the Powell Valley Electric Cooperative office in New Tazewell, Tennessee.

The permittee shall notify the Technical Secretary and the compliance Validation Program in writing at the address listed in **Condition F1-5** when annual operating hours reach 7,000 hours during any interval of 12 consecutive months. The notice shall be sent within two days of reaching the 7,000-hours operational level. A protocol for conducting source emissions testing for more accurately characterizing the nitrogen oxides (NO<sub>x</sub>) emissions from the facility shall accompany the notice. A report of this testing shall be submitted to the Technical Secretary prior to the facility reaching 8,000 operational hours. Notifications and reports shall be submitted to the Technical Secretary at the address specified in **Condition E2(c)**.

Monthly/Yearly Operating Hours Log													
Month/ Year	Engine Operating Hours:											Total Monthly Hours of Operation	12 Consecutive Month Total
	1	2	3	4	5	6	7	8	9	10	11		

- E4-3.** Particulate matter (PM) emitted from each engine shall not exceed 0.58 pounds per hour on a 24-hour averaging basis. Total PM emitted from all 11 engines combined shall not exceed 2.1 tons during any period of 12 consecutive months.

TAPCR 1200-03-06-.01(7) and the agreement letter dated July 17, 2025

**Compliance Method:** Compliance with this condition is assured by compliance with **Conditions E4-2** and **E4-5** and is based on the information provided in **Condition E4-1** and the manufacturer's test data, dated January 12, 2000, included in the Title V permit application dated June 11, 2001 (see Attachment 2). The annual emission limit is based on the nominal emission rate of 0.42 pounds per hour provided in the manufacturer's test data, dated January 12, 2000, and the actual hours of operation at the nominal operating capacity from the logs in **Condition E4-2** of this permit. For compliance and fee purposes, the permittee shall calculate the actual emissions of PM from all 11 engines during each month and each period of 12 consecutive months using the equation in **Condition E4-9**. All data, including all logs and calculations, must be kept readily available for inspection by the Technical Secretary or a Division representative upon request. All records must be retained in accordance with **Condition E3-5**.

- E4-4.** Sulfur dioxide (SO<sub>2</sub>) emitted from each engine shall not exceed 8.30 pounds per hour on a 24-hour averaging basis. Total SO<sub>2</sub> emitted from all 11 engines combined shall not exceed 40.6 tons during any period of 12 consecutive months.

TAPCR 1200-03-14-.01(3) and the agreement letter dated July 17, 2025

**Compliance Method:** Compliance with this condition is assured by compliance with **Conditions E4-2** and **E4-5** and is based on the information provided in **Condition E4-1** and the emission factor of 1.01S from AP-42, Chapter 3.4, Large Stationary Diesel and All Stationary Dual-Fuel Engines. The "S" in the AP-42 emission factor is the percent sulfur in the fuel. For compliance and fee purposes, the permittee shall calculate the actual emissions of SO<sub>2</sub> from all 11 engines during each month and each period of 12 consecutive months using the equation below and the actual monthly fuel usage rate. All data, including all logs and calculations, must be kept readily available for inspection by the Technical Secretary or a Division representative upon request. All records must be retained in accordance with **Condition E3-5**.

$$SO_2 \text{ Emissions } \left( \frac{\text{tons}}{\text{mo}} \right) = \frac{\left[ Mo. \text{ Fuel Oil Usage } \left( \frac{\text{gals}}{\text{mo}} \right) \right] \times \left[ Mo. \text{ Avg. Fuel Oil Heat Content } \left( \frac{\text{MMBtu}}{\text{gal}} \right) \right] \times [1.01S \left( \frac{\text{lb}}{\text{MMBtu}} \right)]}{2000 \frac{\text{lb}}{\text{ton}}}$$

- E4-5.** Only Ultra-Low Sulfur Diesel (ULSD) fuel shall be used as fuel for each engine. The sulfur content of the diesel fuel shall not exceed 0.0015% by weight.

TAPCR 1200-03-09-.02(6) and the application dated February 1, 2024

**Compliance Method:** Certification of the fuel sulfur content shall be obtained from the fuel supplier for each batch of diesel fuel received and stored onsite, or alternatively, the vendor may supply a statement that all diesel fuel delivered to the facility will contain no more than 15 ppm (0.0015%) sulfur. Certifications shall be maintained onsite and kept available for inspection by the Technical Secretary or a Division Representative in accordance with **Condition E3-5**. Certifications maintained for compliance with **Condition F1-3** may be used to demonstrate compliance with this condition.

- E4-6.** Nitrogen oxides (NO<sub>x</sub>) emitted from each engine shall not exceed 61.24 pounds per hour on a 24-hour averaging basis. Total NO<sub>x</sub> emitted from all 11 engines combined shall not exceed 249.8 tons during any period of 12 consecutive months.

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

**Compliance Method:** Compliance with this condition is assured by compliance with **Conditions E4-2** and **E4-5** and is based on the information provided in **Condition E4-1** and the manufacturer's test data, dated January 12, 2000, included in the Title V permit application dated June 11, 2001 (see Attachment 2). The annual emission limit is based on the nominal emission rate of 51.03 pounds per hour provided in the manufacturer's test data, dated January 12, 2000, and the actual hours of operation at the nominal operating capacity from the logs in **Condition E4-2** of this permit. For compliance and fee purposes, the permittee shall calculate the actual emissions of NO<sub>x</sub> from all 11 engines during each month and each period of 12 consecutive months using the equation in **Condition E4-9**. All data including all logs and calculations, must be kept readily available for inspection by the Technical Secretary or a Division representative upon request. All records must be retained in accordance with **Condition E3-5**.

- E4-7.** Carbon monoxide (CO) emitted from each engine shall not exceed 3.57 pounds per hour on a 24-hour averaging basis. Total CO emitted from all 11 engines combined shall not exceed 9.7 tons during any period of 12 consecutive months.

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

**Compliance Method:** Compliance with this condition is assured by compliance with **Conditions E4-2** and **E4-5** and is based on the information provided in **Condition E4-1** and the manufacturer's test data, dated January 12, 2000, included in the Title V permit application dated June 11, 2001 (see Attachment 2). The annual emission limit is based on the nominal emission rate of 1.98 pounds per hour provided in the manufacturer's test data, dated January 12, 2000, and the actual hours of operation at the nominal operating capacity from the logs in **Condition E4-2** of this permit. For compliance purposes, the permittee shall calculate the actual emissions of CO from all 11 engines during each month and each period of 12 consecutive months using the equation in **Condition E4-9**. All data, including all logs and calculations, must be kept readily available for inspection by the Technical Secretary or a Division representative upon request. All records must be retained in accordance with **Condition E3-5**.

- E4-8.** Total volatile organic compounds (VOC) emitted from the 11 engines combined shall not exceed 3.6 tons during any period of 12 consecutive months.

TAPCR 1200-03-26-.02(2)(d)3

**Compliance Method:** This emission limitation is for fee purposes only. The permittee shall use the equation in **Condition E4-9** of this permit to calculate the annual VOC emissions from the 11 engines for annual emission fee purposes. All data, including all logs and calculations, must be kept readily available for inspection by the Technical Secretary or a Division representative upon request. All records must be retained in accordance with **Condition E3-5**.

- E4-9.** Emission test data (Attachment 2) shall be used for compliance and for annual fee emission calculations. The emission test data is presented in the table below.

Pollutant	Emission Rate - Nominal Operation (at 1,825 EKW Output)
PM	0.42 lbs./hr.
CO [Compliance Only]	1.98 lbs./hr.
NO <sub>x</sub>	51.03 lbs./hr.
VOC	0.73 lbs./hr.

$$\text{Monthly Emission Rate} \left( \frac{\text{tons}}{\text{mo}} \right) = \frac{\left[ \frac{\text{Operation Hour at Nominal Limit}}{\text{month}} \right] \times [\text{Nominal Emission Rate} \left( \frac{\text{lbs}}{\text{hr}} \right)]}{[2,000 \frac{\text{lbs}}{\text{ton}}]}$$

TAPCR 1200-03-26-.02(2)(d)3 and the application dated June 11, 2001

**Compliance Method:** The permittee shall calculate actual emissions from all 11 engines each month during the annual accounting period and sum the monthly emissions for each period of 12 consecutive months. All data, including all logs and calculations, must be kept readily available for inspection by the Technical Secretary or a Division representative upon request. All records must be retained in accordance with **Condition E3-5**.

- F1. National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ]**

- F1-1.** The permittee is subject to and shall comply with all applicable requirements of 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE) [Subpart ZZZZ]. Under the provisions of Subpart ZZZZ, the engines at this facility are considered to be “existing” stationary RICE located at an “Area Source” of hazardous air pollutant (HAP) emissions. The engines described in **Condition E4-1** of this permit are considered to be “existing” because construction commenced before June 12, 2006.

40 CFR §63.6590(a)(1)(iii) and TAPCR 0400-30-38-.01

Compliance with Subpart ZZZZ is assured by compliance with **Conditions F1-2 through F1-15**.

**Emission Limits, Management Practices, and Other Requirements**

**F1-2.** The permittee must comply with the following requirements for each demand response stationary compression ignition RICE, except during periods of startup:

- (a) Operating Limitations
  - (1) Maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that is measured during the most recent approved performance test;
  - (2) Maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450°F and less than or equal to 1350°F. Pursuant to 40 CFR §63.8(f), the permittee can petition the Technical Secretary for a different temperature range.
- (b) Emission Limitations and Management Practices
  - (1) Limit concentration of CO in the stationary RICE exhaust to 23 parts per million, volumetric dry (ppmvd) at 15 percent O<sub>2</sub>; or
  - (2) Reduce CO emissions by 70 percent or more.

The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup (shown in paragraph (b) above) apply-

40 CFR §63.6603(a), §63.6625(h), Table 2b to Subpart ZZZZ, and Table 2d to Subpart ZZZZ

**Compliance Method:** Compliance shall be assured by compliance with **Conditions F1-8** and **F1-9**, and by maintaining the records required by **Condition F1-14**.

**F1-3.** The permittee must use diesel fuel that meets the following requirements for non-road diesel fuel, as specified in 40 CFR §1090.305.

- (a) Maximum sulfur content of 15 ppm.
- (b) Diesel fuel must meet one of the following standards:
  - (1) Minimum cetane index of 40.
  - (2) Maximum aromatic content of 35 volume percent.

40 CFR §63.6604(a), §1090.305, TAPCR 1200-03-10-.02(2)(a)

**Compliance Method:** Certification that the diesel fuel used meets the above standards shall be obtained from the fuel supplier for each batch of diesel fuel received and stored onsite, or alternatively, the vendor may supply a statement that all diesel fuel delivered to the facility will meet the above standards. Certifications shall be maintained onsite and kept available for inspection by the Technical Secretary or a Division Representative in accordance with **Condition F1-14**.

**General Compliance Requirements**

**F1-4.** The permittee must be in compliance with all applicable emission limitations, operating limitations, and other requirements in Subpart ZZZZ at all times.

At all times, the permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Technical Secretary which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

40 CFR §63.6605

**Testing and Compliance Requirements**

**F1-5.** The permittee must conduct subsequent performance tests every 8,760 hours or 3 years, whichever comes first. Each performance test must be conducted in accordance with the requirements in Tables 3 and 4 of Subpart ZZZZ.

The permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 CFR §63.7(b)(1). The notification must be submitted to the Compliance Validation Program at the address listed below.

State of Tennessee  
 Department of Environment and Conservation  
 Division of Air Pollution Control- Compliance Validation Program  
 Davy Crockett Tower, 7<sup>th</sup> Floor  
 500 James Robertson Parkway  
 Nashville, TN 37243

or

[Air.Pollution.Control@tn.gov](mailto:Air.Pollution.Control@tn.gov)

The permittee must submit a written report of the test results within 60 days of conducting a performance test to the Compliance Validation Program at the address listed above.

In accordance with the Division approval letter dated September 10, 2013 (Attachment 3), the permittee may test half of the engines during each subsequent performance test (six engines at one time, the remaining five engines the next time). The initial performance test was conducted on engines 5 through 10 on September 16 - 18, 2013. Testing of the remaining engines (engines 1 through 4 and engine 11), was conducted on October 18 - 20, 2016 (three years later). The permittee shall continue this pattern for subsequent testing of the engines. At the time of this renewal, the latest performance test dates and expected subsequent test dates are as follows:

Engines Tested	Latest Performance Test Date	Subsequent Test No Later Than:
Engines 1, 2, 3, 4, and 11	September 13, 2022	September 13, 2028
Engines 5, 6, 7, 8, 9, and 10	June 3 - 5, 2025	June 5, 2031

40 CFR §63.6615, §63.6620, and §63.6645(g)

#### **Monitoring, Installation, Collection, Operation, & Maintenance Request**

**F1-6.** The permittee must operate and maintain a continuous parameter monitoring system (CPMS) according to the requirements in paragraphs (a) through (f) of this condition.

- (a) The permittee must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in subparagraphs (1) through (5) of this condition and in 40 CFR §63.8(d). As specified in §63.8(f)(4), the permittee may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in subparagraphs (1) through (5) of this condition in the site-specific monitoring plan.
  - (1) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;
  - (2) Sampling interface (*e.g.*, thermocouple) location such that the monitoring system will provide representative measurements;
  - (3) Equipment performance evaluations, system accuracy audits, or other audit procedures;
  - (4) Ongoing operation and maintenance procedures in accordance with provisions in §63.8(c)(1)(ii) and (c)(3); and
  - (5) Ongoing reporting and recordkeeping procedures in accordance with provisions in §63.10(c), (e)(1), and (e)(2)(i).
- (b) The permittee must install, operate, and maintain each CPMS in continuous operation according to the procedures in the site-specific monitoring plan.
- (c) The CPMS must collect data at least once every 15 minutes (see also **Conditions F1-8 and F1-9**).
- (d) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or one percent of the measurement range, whichever is larger.
- (e) The permittee must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in the site-specific monitoring plan at least annually.
- (f) The permittee must conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan.

40 CFR §63.6625(b)

**F1-7.** **If** an engine listed in **Condition E4-1** is not equipped with a closed crankcase ventilation system, the permittee must comply with either paragraph (a) or (b) of this condition for that engine. The permittee must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or the permittee can request the Technical Secretary approve different maintenance requirements that are as protective as manufacturer requirements.

- (a) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or
- (b) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals.

40 CFR §63.6625(g)

### **Continuous Compliance Requirements**

**F1-8.** The permittee must monitor and collect data to demonstrate continuous compliance according to the requirements in paragraphs (a) and (b) of this condition.

- (a) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the permittee must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- (b) The permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The permittee must, however, use all the valid data collected during all other periods.

40 CFR §63.6635(b) and (c)

**F1-9.** The permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in **Condition F1-2** of this permit according to methods described in paragraphs (a) through (e) of this condition.

- (a) Conduct performance tests according to **Condition F1-5** for CO to demonstrate that the required CO percent reduction is achieved or that the emissions remain at or below the CO concentration limit; and
- (b) Collect the catalyst inlet temperature data according to **Condition F1-6**; and
- (c) Reduce these data to 4-hour rolling averages. If the engine operates for less than four hours, then the 4-hour average would need to include data from the previous time the engine is operated, or the next time the engine is operated. (For example, if the engine only operates three hours, the permittee shall not compute the 4-hour average from just those three hours of data; the permittee shall compute the 4-hour average from those three hours PLUS the last hour average from the previous time the engine operated or the next hour average if the engine never operated before.)<sup>1</sup>; and
- (d) Maintain the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
- (e) Measure the pressure drop across the catalyst once per month and demonstrate that the pressure drop across the catalyst is within the operating limitation established during the most recent approved performance test. If a RICE does not operate during a given calendar month, the permittee does not have to start up the RICE solely for the purpose of recording the pressure drop. The permittee shall record the pressure drop immediately upon the next startup of the RICE. The compliance report required by **Condition F1-12** shall identify the operational status of the RICE to substantiate the basis of any calendar month for which the pressure drop was not measured.<sup>1</sup>

40 CFR §63.6640(a), Table 6 to Subpart ZZZZ, and TAPCR 1200-03-10-.02(2)(a)

**Compliance Method:** The permittee shall continuously monitor and record the catalyst inlet temperature for each engine when the engine is in operation. The permittee shall monitor and record the pressure drop across the catalyst for each engine once per month when the engine is operating. These records must be maintained in a log (see example below or use a similar format that readily provides the same information). All data, including all logs and calculations, must be kept readily available for inspection by the Technical Secretary or a Division representative upon request. All records must be retained in accordance with **Condition E3-5**. These logs may be retained at the facility or at the Powell Valley Electric Cooperative office in New Tazewell, Tennessee.

<sup>1</sup> This condition is based on the EPA's document titled, *Implementation Question and Answer Document for National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines and New Source Performance Standards for Stationary Compression Ignition and Spark Ignition Combustion Engines*, dated April 2, 2013.



Engine Pressure Drop Reading Log			
Engine ID:		Month/Year:	
Date	Time	Pressure Drop Across Catalyst (inches of H <sub>2</sub> O)	Pressure Drop Difference from Established Limit (inches of H <sub>2</sub> O)

Engine Temperature Reading Log			
Engine ID:		Month/Year:	
Date	Time	Temperature Reading (°)	Temperature Reading <sup>1</sup> 4-Hour Rolling Average (°)

1. The 4-hour rolling average is the average temperature reading measured by the continuous monitoring equipment for a given hour and the three operating hour average temperature readings immediately preceding that operating hour.

**F1-10.** The permittee must report each instance in which each emission limitation or operating limitation in **Condition F1-2** was not met. The permittee must report each instance in which the requirements in the General Provisions (See Table 8 in Attachment 4) were not met. These instances are deviations from the emission and operating limitations in Subpart ZZZZ. These deviations must be reported according to the requirements in **Condition F1-12**. If the permittee changes the catalyst, the permittee must reestablish the values of the operating parameters measured during the most recent approved performance test. When the permittee reestablishes the values of the operating parameters, the permittee must also conduct a performance test to demonstrate that the required emission limitations applicable to the stationary RICE are met. Performance tests must be conducted in accordance with **Condition F1-5**.

40 CFR §63.6640(b) and (c)

#### **Notifications, Reports, and Records**

**F1-11.** The permittee must submit all of the notifications in 40 CFR §§63.7(b) and (c); 63.8(e), (f)(4), and (f)(6); and 63.9 (e) and (g) for the demand response engines by the dates specified. All notifications shall be submitted to the Division at the address listed below or in Adobe Portable Document Format (PDF) via e-mail.

State of Tennessee  
 Department of Environment and Conservation  
 Division of Air Pollution Control – Permitting Program  
 Davy Crockett Tower, 7<sup>th</sup> Floor  
 500 James Robertson Parkway  
 Nashville, TN 37243

or

[Air.Pollution.Control@tn.gov](mailto:Air.Pollution.Control@tn.gov)

The permittee must submit a copy of each notification submitted to the Division to the EPA at the address listed in **Condition E2(b)**.

40 CFR §63.6645(a) and §63.9(a)(4)

- F1-12.** The permittee must submit semiannual compliance reports according to the requirements in paragraphs (a) through (e) of this condition.
- (a) Semiannual compliance reports must cover the six-month periods from January 1 to June 30 and July 1 to December 31 and must be postmarked or delivered to the Division at the address specified in **Condition E2(c)** within 60 days after the end of each six-month period.
  - (b) Each compliance report must contain the information in subparagraphs (1) through (8) below.
    - (1) Company name and address.
    - (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
    - (3) Date of report and beginning and ending dates of the reporting period.
    - (4) If a malfunction occurred during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by the permittee during a malfunction of an affected source to minimize emissions in accordance with **Condition F1-4**, including actions taken to correct a malfunction.
    - (5) If there are no deviations from any emission or operating limitations that apply to the demand response engines, a statement that there were no deviations from the emission or operating limitations during the reporting period.
    - (6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in 40 CFR §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period must be included.
    - (7) Engine site rating in brake HP, year construction of the engine commenced (as defined in §63.2, where the exact year is not known, provide an estimate), and type of engine (CI, SI 2SLB, SI 4SLB, or SI 4SRB).
    - (8) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
  - (c) For each deviation from an emission limitation or operating limitation that occurs for a stationary RICE where a CMS is not used to comply with the emission or operating limitation, the compliance report must contain the information in subparagraphs (b)(1) through (8) of this condition and the information in subparagraphs (1) through (3) below.
    - (1) The total operating time (in hours) of the stationary RICE at which the deviation occurred during the reporting period.
    - (2) Information on the number, duration, (in hours), and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
    - (3) A description of any changes in processes, or controls since the last reporting period.
  - (d) For each deviation from an emission or operating limitation occurring for a stationary RICE where a CMS is used to comply with the emission and operating limitations in Subpart ZZZZ, the compliance report must include the information in subparagraphs (b)(1) through (8) of this condition and the information in subparagraphs (1) through (12) below.
    - (1) The date and time that each malfunction started and stopped.
    - (2) The start and end date and time and the duration (in hours) that each CMS was inoperative, except for zero (low-level) and high-level checks.
    - (3) The start and end date and time and the duration (in hours) that each CMS was out-of-control, including the information in 40 CFR §63.8(c)(8).
    - (4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
    - (5) A summary of the total duration (in hours) of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
    - (6) A breakdown of the total duration (in hours) of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
    - (7) A summary of the total duration (in hours) of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.
    - (8) An identification of each parameter and pollutant (CO) that was monitored at the stationary RICE.
    - (9) A brief description of the CMS.
    - (10) The date of the latest CMS certification or audit.
    - (11) A description of any changes in CMS, processes, or controls since the last reporting period.
    - (12) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
  - (e) **Beginning on February 26, 2025**, or one year after the report becomes available in CEDRI, whichever is later, the permittee must also submit all semiannual compliance reports to EPA using the appropriate electronic report template for Subpart ZZZZ on the CEDRI website (<https://www.epa.gov/electronic-reporting-air-emissions/cedri>) and following the procedure specified in 40 CFR §63.9(k), except any CBI must be submitted according to the procedures in §63.6645(h). The date report templates become available will be listed on the CEDRI website. Each report must be submitted within 60 days after the end of each six-month reporting period.



40 CFR §63.6650(a) through (e) and (i)

**F1-13.** The permittee must report all deviations as defined in Subpart ZZZZ in the semiannual monitoring report required by **Condition E2(a)**. If the permittee submits a semiannual compliance report pursuant to **Condition F1-12** along with the semiannual monitoring report required by **Condition E2(a)**, and the semiannual compliance report includes all required information concerning deviations from any emission or operating limitation in Subpart ZZZZ, submission of the semiannual compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a semiannual compliance report shall not otherwise affect any obligation the permittee may have to report deviations from permit requirements to the Technical Secretary.

40 CFR §63.6650(f)

**F1-14.** The permittee must keep the following records:

- (a) For emissions and operating limitations, the permittee must keep the records described in subparagraphs (a)(1) through (5) of this condition.
  - (1) A copy of each notification and report submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv).
  - (2) Records of the occurrence and duration (in hours) of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.
  - (3) Records of performance tests and performance evaluations as required in R§63.10(b)(2)(viii).
  - (4) Records of all required maintenance performed on the air pollution control and monitoring equipment.
  - (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with **Condition F1-4**, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- (b) For each CEMS or CPMS, the permittee must keep the records listed in subparagraphs (b)(1) through (3) of this condition.
  - (1) Records described in §63.10(b)(2)(vi) through (xi).
  - (2) Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).
  - (3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable.
- (c) The permittee must keep the records required in **Condition F1-9** to show continuous compliance with each emission or operating limitation that applies to the stationary RICE.
- (d) The permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the permittee operated and maintained the stationary RICE and after-treatment control device (if applicable) according to the permittee's maintenance plan.

All records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1). Each record must be kept readily accessible in hard copy or electronic form for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two years of data shall be retained on site. The remaining three years of data may be retained off site.

40 CFR §63.6655(a), (b), (d), and (e), §63.6660, and §63.10(b)(1)

**F1-15.** Table 8 to Subpart ZZZZ (Attachment 4) shows which parts of the General Provisions in 40 CFR 63.1 through 63.15 apply to the permittee.

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**END OF PERMIT NUMBER 582139**

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**ATTACHMENT 1**

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**Opacity Matrix Decision Tree for  
Visible Emission Evaluation Method 9  
Dated June 18, 1986, Amended September 11, 2013**

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

#### Notes:

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

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

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

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

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

#### Typical Pollutants

Particulates, VOC, CO, SO<sub>2</sub>, NO<sub>2</sub>, 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

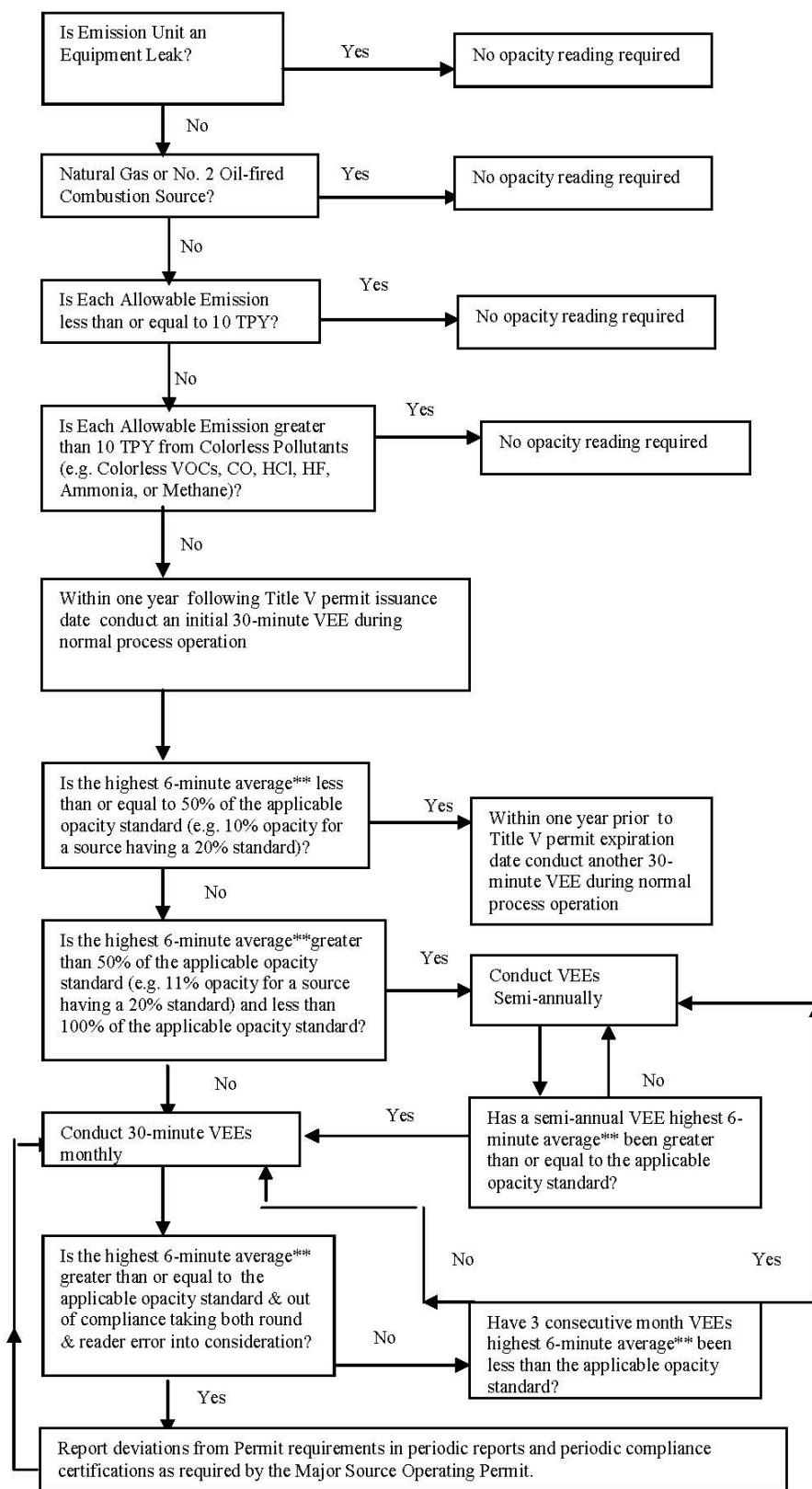
EPA Method 9, Non-NSPS or NESHAPS stipulated opacity standards: The TAPCD guidance is to declare non-compliance when the highest six-minute average\*\* exceeds the standard plus 6.8% opacity (e.g. 26.8% for a 20% standard).

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



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**ATTACHMENT 2**

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**Select Pages from June 11, 2001, Permit Application  
Manufacturer's Test Data, January 12, 2000**

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-GKGP1- TMI - ENGINE AND COMP PERF DATE: 01/12/00  
 09 - PACKAGE SET PERFORMANCE TIME: 13:49:09  
 3516B DI TA JW DRY MANF TURBO QTY 4 PARALLEL ADEM GOV  
 DM1147-03 PGS PRIME 60 HERTZ EXH STK DIA 12.0 IN  
 GEN 1825.0 W/F EXH 1880.0 W/O F EXH W/F BHP 2628 W/O F BHP @ 1800 RPM  
 LOW BEPC STRATEGY  
 INFO CODE 05 - EMISSIONS DATA \* \* REFERENCE NOTES - NOMINAL \* \* \* \* \*  
 EMISSIONS DATA MEASUREMENT IS CONSISTENT WITH THOSE DESCRIBED IN EPA CFR 40  
 PART 86 SUBPART D AND ISO 8178-1 FOR MEASURING HC, CO, CO2 AND NOX. THESE  
 PROCEDURES ARE VERY SIMILAR TO THE METHODS DESCRIBED IN EPA CFR 40 PART 86  
 APPENDIX A METHOD 25A FOR HYDROCARBONS, METHOD 10 FOR CO, METHOD 7E FOR NOX.

DATA SHOWN IS BASED ON STEADY STATE ENGINE OPERATING CONDITIONS OF 77 DEG F,  
 28.42 IN HG AND NUMBER 2 DIESEL FUEL WITH 35 DEG API AND LHV OF 18,390 BTU/LB.  
 THE DATA SHOWN IS SUBJECT TO INSTRUMENTATION, MEASUREMENT, FACILITY AND  
 ENGINE TO ENGINE VARIATIONS.

TO PROPERLY APPLY THIS DATA YOU MUST REFER TO PERFORMANCE PARAMETER DM1176 FOR  
 ADDITIONAL INFORMATION, (APPLICATION GEN402, PROGRAM 03).

-GKGP1- TMI - ENGINE AND COMP PERF DATE: 01/12/00  
 09 - PACKAGE SET PERFORMANCE TIME: 13:55:04 *Test Data*  
 3516B DI TA JW DRY MANF TURBO QTY 4 PARALLEL ADEM GOV  
 DM1147-03 PGS PRIME 60 HERTZ EXH STK DIA 12.0 IN  
 GEN 1825.0 W/F EXH 1880.0 W/O F EXH W/F BHP 2628 W/O F BHP @ 1800 RPM  
 LOW BEPC STRATEGY  
 INFO CODE 05 - EMISSIONS DATA \* \* \* \* \* RATED SPEED \* \* \* \* \* STANDARD TIMING  
 "NOMINAL DATA"  

GEN	PMR	EXH	NOX	CO	TOTAL	CO2	PART	IN EXH	SMOKE	BOXEN
PMR	%	PMR	(AS MEQ)	LB/HR	HC	CO2	MATTER	(VOL)	OPAC	SMOKE
EXH	LOAD	BHP			LB/HR			%	%	NO.
1825.0	100	2993.0	51.03	1.98	.73	2771.7	.420	10.30	1.1	1.28
1368.8	75	1957.7	42.43	1.29	.74	2076.7	.340	11.30	1.2	1.28
912.5	50	1327.6	29.50	1.10	.66	1465.6	.330	12.10	2.0	1.28
456.3	25	703.6	17.47	.81	.52	908.7	.270	13.30	2.6	1.28

09 - PACKAGE SET PERFORMANCE TIME:  
 3516B DI TA JW DRY MANF TURBO QTY 4 PARALLEL ADEM GOV  
 DM1147-03 PGS PRIME 60 HERTZ EXH STK DIA 12.0 IN  
 GEN 1825.0 W/F EXH 1880.0 W/O F EXH W/F BHP 2628 W/O F BHP @ 1800 RPM  
 LOW BEPC STRATEGY  
 INFO CODE 05 - EMISSIONS DATA \* \* \* \* \* RATED CONDITIONS \* \* STANDARD TIMING  
 "NOMINAL DATA"  
 AT RATED:  

WET EXHAUST MASS	29022 LB/HR
WET EXHAUST FLOW ( 901 DEG F STACK TEMP )	14507 CFM
WET EXHAUST FLOW RATE ( 32 DEG F AND 29.98 IN HG )...	5241 STD CFM
DRY EXHAUST FLOW RATE ( 32 DEG F AND 29.98 IN HG )...	4785 STD CFM
FUEL FLOW RATE	123.9 GAL/HR

-GROPEL- TMI - ENGINE AND COMP PERF DATE: 01/12/00  
 09 - PACKAGE SET PERFORMANCE TIME: 13:29:10  
 3516B DI TA JW DRY MAMP TURBO QTY 4 PARALLEL ADEM GOV  
 DM3147-03 PGS PRIME 60 HERTZ EXH STK DIA 12.0 IN  
 GEN 1825.0 W/F EXH 1880.0 W/O F EXH W/F BHP 2628 W/O F BHP @ 1800 RPM  
 LOW BSFC STRATEGY  
 INFO CODE 05 - EMISSIONS DATA \* \* REFERENCE NOTES - NOT TO EXCEED \* \* \* \* \*  
 EMISSIONS DATA MEASUREMENT IS CONSISTENT WITH THOSE DESCRIBED IN EPA CFR 40  
 PART 86 SUBPART D AND ISO 8178-1 FOR MEASURING HC, CO, CO2 AND NOX. THESE  
 PROCEDURES ARE VERY SIMILAR TO THE METHODS DESCRIBED IN EPA CFR 40 PART 60  
 APPENDIX A METHOD 25A FOR HYDROCARBONS, METHOD 10 FOR CO, METHOD 7E FOR NOX.  
 DATA SHOWN IS BASED ON STEADY STATE ENGINE OPERATING CONDITIONS OF 77 DEG F,  
 28.43 IN HG AND NUMBER 2 DIESEL FUEL WITH 15 DEG API AND LHV OF 18,390 BTU/LB.  
 TO PROPERLY APPLY THIS DATA YOU MUST REFER TO PERFORMANCE PARAMETER DM1175 FOR  
 ADDITIONAL INFORMATION. (APPLICATION GDM401, PROGRAM 03).

-GROPEL- TMI - ENGINE AND COMP PERF DATE: 01/12/00  
 09 - PACKAGE SET PERFORMANCE TIME: 13:31:20  
 3516B DI TA JW DRY MAMP TURBO QTY 4 PARALLEL ADEM GOV  
 DM3147-03 PGS PRIME 60 HERTZ EXH STK DIA 12.0 IN  
 GEN 1825.0 W/F EXH 1880.0 W/O F EXH W/F BHP 2628 W/O F BHP @ 1800 RPM  
 LOW BSFC STRATEGY  
 INFO CODE 05 - EMISSIONS DATA \* \* \* \* \* RATED SPEED \* \* \* \* \* STANDARD TIMING  
 "NOT TO EXCEED DATA" 02 (DRY)  

GEN	ENG	NOX	CO	TOTAL	PART	IN EXH	SMOKE	BOSEN
PWR	%	PWR	(AS NO2)	HC	HC	MATTER	(VOL)	OPAC SMOKE
EXH	LOAD	BHP		LB/HR		%	%	NO.
1825.0	100	2593.0	51.34	1.37	.98	.580	10.30	1.1 1.18
1368.8	75	1957.7	50.91	1.33	.98	.480	11.30	1.3 1.38
913.3	50	1327.6	35.40	1.99	.87	.460	12.10	2.0 1.28
456.3	25	703.6	20.94	1.47	.70	.380	13.30	2.6 1.28

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**ATTACHMENT 3**

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**PVEC Stack Test Waiver Request Letter Dated July 17, 2013**  
**U.S. EPA Region 7 Stack Testing Request Letter Dated November 14, 2012**  
**TDAPC Approval of PVEC Stack Testing Waiver Request Letter Dated September 10, 2013**  
**TDAPC Correspondence with EPA Region 4**

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# POWELL VALLEY ELECTRIC COOPERATIVE

325 Straight Creek Road • New Tazewell, Tennessee 37825  
P. O. Box 1528 • New Tazewell, Tennessee 37824  
423-626-5204

**RECEIVED**

JUL 19 2013

JOHNSON CITY ENVIRONMENTAL  
FIELD OFFICE

July 17, 2013

RANDELL W. MEYERS  
General Manager & CEO

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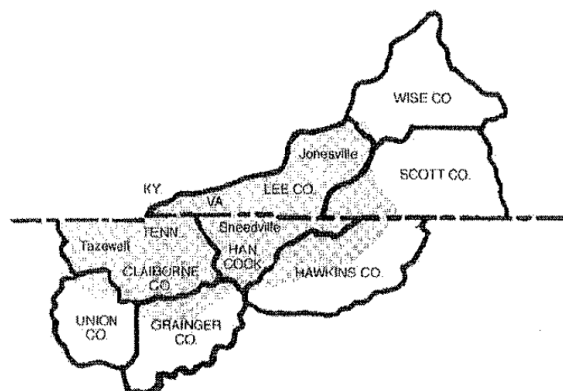
DR. JOHN SHORT  
Sneedville, TN

Tennessee Department of Environment & Conservation  
Johnson City Environmental Field Office  
Division of Air Pollution  
2305 Silverdale Road  
Johnson City, TN 37601

Re: Stack Testing Waiver Request (40 CFR 63.7(h))  
Ford Generator Station  
Powell Valley Electric Cooperative, Inc.  
8806 Kyles Ford Hwy, Kyles Ford, TN 37765

To whom it may concern:

Powell Valley Electric Cooperative, Inc. (PVEC) owns and operates eleven (11) diesel fired reciprocating internal combustion engines that are subject to requirements of NESHAP ZZZZ. Per 40 CFR §63.6612 and §63.6615, PVEC is required to conduct initial performance testing and subsequent performance testing on all applicable engines at the facility. The eleven (11) units subject to testing requirements were manufactured by Caterpillar and are the same model (3516B). Each engine has a capacity of 2 megawatt and is equipped with the same diesel oxidation catalyst (DOC) and monitoring system. A list of the applicable engines and manufacturer specification is provided in the table below. Each engine is subject to the emission limitations in 40 CFR §63.6603. Specifically, engine exhaust emissions of carbon monoxide (CO) must be limited to 23 ppmvd or reduced CO by 70 percent.



**RUS**

COOPERATIVE ELECTRICITY

**TVA**

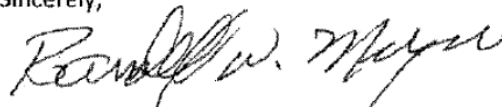
Page 2

Unit #	Manufacturer	Model	Model Year	Serial Number	Size (Hp)	Output (KW)	Fuel Type
1	Caterpillar	3516 B	1999	7RN00968	2628	2000	Diesel
2	Caterpillar	3516 B	1999	7RN00967	2628	2000	Diesel
3	Caterpillar	3516 B	1999	7RN00964	2628	2000	Diesel
4	Caterpillar	3516 B	1999	7RN00962	2628	2000	Diesel
5	Caterpillar	3516 B	2001	7RN01916	2628	2000	Diesel
6	Caterpillar	3516 B	1999	7RN00971	2628	2000	Diesel
7	Caterpillar	3516 B	1999	7RN00963	2628	2000	Diesel
8	Caterpillar	3516 B	1999	7RN00961	2628	2000	Diesel
9	Caterpillar	3516 B	1999	7RN00965	2628	2000	Diesel
10	Caterpillar	3516 B	1999	7RN00959	2628	2000	Diesel
11	Caterpillar	3516 B	1999	7RN00960	2628	2000	Diesel

These eleven (11) engines are all located at the same facility, produced by the same manufacturer, have the same rated capacity, are operated and maintained in the same manner, and have the same control device system. Therefore, PVEC respectfully requests that the facility be allowed to test six (6) engines to satisfy the requirements of the initial performance testing, per 40 CFR §63.6612. If approved, stack testing on the remaining five (5) engines would be conducted after one of the initially tested engines operates more than 8,760 hours or after three (3) years (whichever comes first). Thus, PVEC will be conducting tests on each engine once every six (6) years. A copy of a letter of approval from EPA for reducing stack testing schedule for a facility similar to the Ford Generation Station is attached.

Should you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,



Randell W. Meyers, General Manager/CEO  
POWELL VALLEY ELECTRIC COOPERATIVE, INC.

cc: ATTN: Lee Page  
Environmental Protection Agency  
Director of Air, Pesticides, and Toxics Management Division  
Atlanta Federal Center  
61 Forsyth Street  
Atlanta, GA 30303-3104

Enclosure: EPA Region 7 Letter to Rolla Municipal Utilities, dated 11-14-2012

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY****REGION 7**

11201 Renner Boulevard

Lenexa, Kansas 66219

NOV 14 2012

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Vicki L. Cason, P.E.

Staff Engineer

Rolla Municipal Utilities

P.O. Box 767

Rolla, Missouri 65402-0767

RE: RICE NESHAP Stack Testing Request

Dear Ms. Cason:

On July 30, 2012, the Rolla Municipal Utilities (RMU) submitted a request to the United States Environmental Protection Agency (EPA) Region 7 to waive certain stack tests in accordance with 40 C.F.R. 63.7(h). EPA has determined that it is appropriate in this case to waive certain stack tests as outlined in the schedule below.

**Background**

Based on information provided in the July 30, 2012 letter, RMU operates 17 compression ignition reciprocating internal combustion engines (RICE). All 17 engines were manufactured by Caterpillar and are the same model (Model B3516). Each engine has a capacity of 2 megawatts. Each engine is equipped with the same model GT Exhaust Diesel Oxidation Catalyst Silencer (Model #201D1-3-2-5116-2-51363) control system.

RMU's 17 engines are subject to the RICE National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 C.F.R. Part 63, Subpart ZZZZ) including the emission limitations at 40 C.F.R. 63.6603. RMU is required to either limit the concentration of carbon monoxide (CO) in the stationary RICE exhaust to 23 ppmvd at 15 percent O<sub>2</sub> or reduce CO emissions by 70 percent or more. In order to demonstrate compliance with either CO emission limitation, RMU is required to conduct stack testing in accordance with 40 C.F.R. 63.6612, 40 C.F.R. 63.6615, and 40 C.F.R. 63.6620. RMU is required to conduct an initial stack test on each engine and then conduct subsequent stack tests every 8,760 hours of operation or three years, whichever comes first.

On April 27, 2009, EPA released a memorandum related to the Clean Air Act National Stack Testing Guidance. Section 2 of this guidance document addresses stack test waivers. The guidance document states that units, although identical in terms of design and control devices, may have process operations that significantly alter their performance and ability to comply with the underlying regulatory requirements on a continuing basis and that stack tests should not be waived without adequate justification. A waiver may be appropriate on a case-by-case basis when criteria such as the following are met:



Printed on Recycled Paper

- (1) the units are located at the same facility;
- (2) the units are produced by the same manufacturer, have the same model number or other manufacturer's designation in common, and have the same rated capacity and operating specifications;
- (3) the units are operated and maintained in a similar manner; and
- (4) the delegated agency, based on documentation submitted by the facility,
  - a. determines that the margin of compliance for the identical units tested is significant and can be maintained on an on-going basis; or
  - b. determines based on a review of sufficient emissions data that, though the margin of compliance is not substantial, other factors allow for the determination that the variability of emissions for identical tested units is low enough for confidence that the untested unit will be in compliance. These factors may include, but are not limited to, the following:
    - i. historical records at the tested unit showing consistent/invariant load;
    - ii. fuel characteristics yielding low variability (e.g., oil) and therefore assurance that emissions will be constant and below allowable levels;
    - iii. statistical analysis of a robust emissions data set demonstrates sufficiently low variability to convey assurance that the margin of compliance, though small, is reliable.

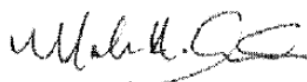
In this case, all 17 engines are permitted as one source and located at seven substations located in Rolla. All 17 engines were produced by the same manufacturer and have the same model number, the same rated capacity, the same operating specifications, the same control system manufacturer, and the same control system model number. All 17 engines are operated and maintained in a similar manner. In addition, the measured CO concentrations from the four engines (EP-1 through EP-4) that were tested from July 19, 2012 to July 23, 2012 were about 50% below the CO emission limitation with little variability in the measurements. For these reasons, EPA is approving the following stack testing schedule.

#### **Stack Testing Schedule**

RMU shall conduct stack tests for at least half of the engines by the date specified at 40 C.F.R. 63.6612. RMU shall conduct stack tests for the remaining engines after one of the initially tested engines operates 8,760 hours or after three years from the date of the initial test, whichever comes first. For example, if none of the engines initially tested operate 8,760 hours before the end of a three-year period, RMU shall conduct a stack test on the remaining untested engines by July 19, 2015 (three years after the initial stack test which was July 19, 2012). RMU shall continue this pattern for subsequent tests. For example, if the remaining untested engines are tested by July 19, 2015, RMU shall conduct subsequent testing on the initially tested engines by July 19, 2018 or after 8,760 hours of operation. In essence EPA is approving the reduction of stack tests to once every six years, assuming no engine operates more than 8,760 hours in the three years following the tests, with approximately half the engines tested every three years.

If you have any questions regarding this letter, please contact David Peter at (913) 551-7397.

Sincerely,



Mark A. Smith, Chief  
Air Permitting and Compliance Branch  
Air and Waste Management Division





STATE OF TENNESSEE  
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**  
DIVISION OF AIR POLLUTION CONTROL  
William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 15<sup>th</sup> Floor  
Nashville, Tennessee 37243

September 10, 2013

Mr. Randell W. Meyers  
General Manager/CEO  
Powell Valley Electrical Cooperative, Inc.  
P. O. Box 1528  
New Tazewell, Tennessee 37824

Reference Number: 34-0014-01-S4

Dear Mr. Meyers:

The Tennessee Division of Air Pollution Control has received the stack testing waiver request for the eleven compression ignition reciprocating internal combustion engines located at the Powell Valley Electric Cooperative Ford Generation Plant in Kyles Ford, Tennessee. This waiver request is dated July 17, 2013. Each of these engines is subject to the requirements of 40 CFR 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. In reviewing this waiver consideration was given to Section 2 of the Clean Air Act National Stack Testing Guidance which addresses stack test waivers. It was noted from a review of the request that the requirements of Section 2 of the guidance document were met in that all of the engines are located at the same facility, are identical with respect to manufacturer, model number, and rated capacity, are maintained and operated in the same manner, and have identical air pollution control equipment installed. In support of this request a copy of a test waiver granted by USEPA Region 7 for a similar situation was included with the request.

The Division agrees with the technical validity of the request and notes that it can result in a considerable saving in stack testing costs without affecting the ability of the facility to demonstrate compliance with the applicable emission limits.

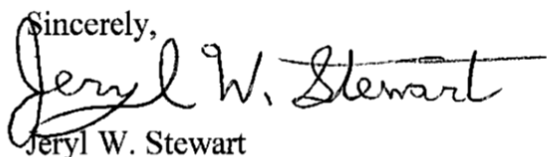
The underlying regulatory requirement for this stack testing is a federal regulation. Therefore, USEPA Region 4 was consulted in this matter. USEPA Region 4 agreed with the validity of the request and also agreed that the Tennessee Division of Air Pollution Control had the authority to respond to the request. A copy of their reply is enclosed.

Mr. Randell W. Meyers  
Powell Valley Electrical Cooperative, Inc.  
September 10, 2013  
page 2 of 2

Given that both this Division and USEPA Region 4 agree that the stack test waiver request is approvable and that USEPA Region 4 agrees that this Division should formerly respond to this request; the Tennessee Division of Air Pollution Control formerly approves the stack test waiver requested by Powell Valley Electrical Cooperative for the eleven compression ignition reciprocating internal combustion engines located at Ford Generation Plant provided that the testing schedule is conducted as set forth in the July 17, 2013 stack test waiver request.

Should you have any questions concerning the matter addressed by this letter, please contact me at (615) 532-0605.

Sincerely,

A handwritten signature in black ink that reads "Jeryl W. Stewart". The signature is written in a cursive style with a large, stylized "J" and "S".

Jeryl W. Stewart  
Compliance Validation Program  
Tennessee Division of Air Pollution Control

enclosure - 1

c: Johnson City – EFO

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Compliance Validation

Jeryl Stewart

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## RE: Stack Testing Waiver Request

Jeryl Stewart

Sent: Monday, August 26, 2013 9:33 AM

To: Page, Lee [Page.Lee@epa.gov]

Thank you for the guidance  
Tennessee will proceed with approving this request  
Jeryl Stewart - TDEC

---

From: Page, Lee [Page.Lee@epa.gov]  
Sent: Monday, August 26, 2013 9:08 AM  
To: Jeryl Stewart  
Subject: RE: Stack Testing Waiver Request

Jeryl: We do not see this as a major alternative since the issue has been addressed before (i.e., Region 7).

1. Yes, we agree with the Region 7 letter
2. We assume that this is a Title V source and therefore you will be adding the RICE requirements to the permit. TN takes delegation of part 63 rules through Title V permits, so therefore you have delegation of the rule and the authority to respond to non-major alternative requests. TN should formally respond to the request.

-----Original Message-----

From: Jeryl Stewart [mailto:Jeryl.Stewart@tn.gov]  
Sent: Monday, August 26, 2013 9:51 AM  
To: Page, Lee  
Subject: RE: Stack Testing Waiver Request

Since this represents a major modification to the compliance method and since USEPA Region 7 made the original determination in this matter, we were waiting for an EPA decision in the matter. The two issues in this matter are: (1) Does Region 4 agree with the Region 7 determination and is Region 4 willing to grant the same type of waiver to Powell Valley Electric? and (2) Which agency (Region 4 or TDEC) should formerly address this request?

If you would like to discuss, please give me a call.  
Jeryl Stewart - TDEC  
(615) 532-0605

<https://mail.tn.gov/owa/?ae=Item&t=IPM.Note&id=RgAAAABot...> 9/3/2013



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**ATTACHMENT 4**

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***Applicability of General Provisions to Subpart ZZZZ***

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You are required to comply with the following General Provisions of the federal National Emission Standards for Hazardous Air Pollutants (NESHAP):

General provisions citation	Subject of citation	Applies to subpart	Explanation
§ 63.1	General applicability of the General Provisions	Yes	
§ 63.2	Definitions	Yes	Additional terms defined in §63.6675.
§ 63.3	Units and abbreviations	Yes	
§ 63.4	Prohibited activities and circumvention	Yes	
§ 63.5	Construction and reconstruction	Yes	
§ 63.6(a)	Applicability	Yes	
§ 63.6(b)(1)-(4)	Compliance dates for new and reconstructed sources	Yes	
§ 63.6(b)(5)	Notification	Yes	
§ 63.6(b)(6)	[Reserved]		
§ 63.6(b)(7)	Compliance dates for new and reconstructed area sources that become major sources	Yes	
§ 63.6(c)(1)-(2)	Compliance dates for existing sources	Yes	
§ 63.6(c)(3)-(4)	[Reserved]		
§ 63.6(c)(5)	Compliance dates for existing area sources that become major sources	Yes	
§ 63.6(d)	[Reserved]		
§ 63.6(e)	Operation and maintenance	No	
§ 63.6(f)(1)	Applicability of standards	No	
§ 63.6(f)(2)	Methods for determining compliance	Yes	
§ 63.6(f)(3)	Finding of compliance	Yes	
§ 63.6(g)(1)-(3)	Use of alternate standard	Yes	
§ 63.6(h)	Opacity and visible emission standards	No	Subpart ZZZZ does not contain opacity or visible emission standards.
§ 63.6(i)	Compliance extension procedures and criteria	Yes	
§ 63.6(j)	Presidential compliance exemption	Yes	
§ 63.7(a)(1)-(2)	Performance test dates	Yes	Subpart ZZZZ contains performance test dates at §§63.6610, 63.6611, and 63.6612.
§ 63.7(a)(3)	CAA section 114 authority	Yes	
§ 63.7(b)(1)	Notification of performance test	Yes	Except that §63.7(b)(1) only applies as specified in §63.6645.
§ 63.7(b)(2)	Notification of rescheduling	Yes	Except that §63.7(b)(2) only applies as specified in §63.6645.
§ 63.7(c)	Quality assurance/test plan	Yes	Except that §63.7(c) only applies as specified in §63.6645.
§ 63.7(d)	Testing facilities	Yes	
§ 63.7(e)(1)	Conditions for conducting performance tests	No	Subpart ZZZZ specifies conditions for conducting performance tests at §63.6620.
§ 63.7(e)(2)	Conduct of performance tests and reduction of data	Yes	Subpart ZZZZ specifies test methods at §63.6620.
§ 63.7(e)(3)	Test run duration	Yes	
§ 63.7(e)(4)	Administrator may require other testing under section 114 of the CAA	Yes	
§ 63.7(f)	Alternative test method provisions	Yes	
§ 63.7(g)	Performance test data analysis, recordkeeping, and reporting	Yes	

General provisions citation	Subject of citation	Applies to subpart	Explanation
§ 63.7(h)	Waiver of tests	Yes	
§ 63.8(a)(1)	Applicability of monitoring requirements	Yes	Subpart ZZZZ contains specific requirements for monitoring at §63.6625.
§ 63.8(a)(2)	Performance specifications	Yes	
§ 63.8(a)(3)	[Reserved]		
§ 63.8(a)(4)	Monitoring for control devices	No	
§ 63.8(b)(1)	Monitoring	Yes	
§ 63.8(b)(2)-(3)	Multiple effluents and multiple monitoring systems	Yes	
§ 63.8(c)(1)	Monitoring system operation and maintenance	Yes	
§ 63.8(c)(1)(i)	Routine and predictable SSM	No	
§ 63.8(c)(1)(ii)	SSM not in Startup Shutdown Malfunction Plan	Yes	
§ 63.8(c)(1)(iii)	Compliance with operation and maintenance requirements	No	
§ 63.8(c)(2)-(3)	Monitoring system installation	Yes	
§ 63.8(c)(4)	Continuous monitoring system (CMS) requirements	Yes	Except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS).
§ 63.8(c)(5)	COMS minimum procedures	No	Subpart ZZZZ does not require COMS.
§ 63.8(c)(6)-(8)	CMS requirements	Yes	Except that subpart ZZZZ does not require COMS.
§ 63.8(d)	CMS quality control	Yes	
§ 63.8(e)	CMS performance evaluation	Yes	Except for §63.8(e)(5)(ii), which applies to COMS.
			Except that §63.8(e) only applies as specified in §63.6645.
§ 63.8(f)(1)-(5)	Alternative monitoring method	Yes	Except that §63.8(f)(4) only applies as specified in §63.6645.
§ 63.8(f)(6)	Alternative to relative accuracy test	Yes	Except that §63.8(f)(6) only applies as specified in §63.6645.
§ 63.8(g)	Data reduction	Yes	Except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at §§63.6635 and 63.6640.
§ 63.9(a)	Applicability and State delegation of notification requirements	Yes	
§ 63.9(b)(1)-(5)	Initial notifications	Yes	Except that §63.9(b)(3) is reserved.
			Except that §63.9(b) only applies as specified in §63.6645.
§ 63.9(c)	Request for compliance extension	Yes	Except that §63.9(c) only applies as specified in §63.6645.
§ 63.9(d)	Notification of special compliance requirements for new sources	Yes	Except that §63.9(d) only applies as specified in §63.6645.
§ 63.9(e)	Notification of performance test	Yes	Except that §63.9(e) only applies as specified in §63.6645.
§ 63.9(f)	Notification of visible emission (VE)/opacity test	No	Subpart ZZZZ does not contain opacity or VE standards.
§ 63.9(g)(1)	Notification of performance evaluation	Yes	Except that §63.9(g) only applies as specified in §63.6645.
§ 63.9(g)(2)	Notification of use of COMS data	No	Subpart ZZZZ does not contain opacity or VE standards.
§ 63.9(g)(3)	Notification that criterion for alternative to RATA is exceeded	Yes	If alternative is in use. Except that §63.9(g) only applies as specified in §63.6645.

General provisions citation	Subject of citation	Applies to subpart	Explanation
§ 63.9(h)(1)-(6)	Notification of compliance status	Yes	Except that notifications for sources using a CEMS are due 30 days after completion of performance evaluations. §63.9(h)(4) is reserved.
			Except that §63.9(h) only applies as specified in §63.6645.
§ 63.9(i)	Adjustment of submittal deadlines	Yes	
§ 63.9(j)	Change in previous information	Yes	
§ 63.9(k)	Electronic reporting procedures	Yes	Only as specified in §§63.9(j), 63.6620, 63.6625, 63.6645, and 63.6650.
§ 63.10(a)	Administrative provisions for recordkeeping/reporting	Yes	
§ 63.10(b)(1)	Record retention	Yes	Except that the most recent 2 years of data do not have to be retained on site.
§ 63.10(b)(2)(i)-(v)	Records related to SSM	No	
§ 63.10(b)(2)(vi)-(xi)	Records	Yes	
§ 63.10(b)(2)(xii)	Record when under waiver	Yes	
§ 63.10(b)(2)(xiii)	Records when using alternative to RATA	Yes	For CO standard if using RATA alternative.
§ 63.10(b)(2)(xiv)	Records of supporting documentation	Yes	
§ 63.10(b)(3)	Records of applicability determination	Yes	
§ 63.10(c)	Additional records for sources using CEMS	Yes	Except that §63.10(c)(2)-(4) and (9) are reserved.
§ 63.10(d)(1)	General reporting requirements	Yes	
§ 63.10(d)(2)	Report of performance test results	Yes	
§ 63.10(d)(3)	Reporting opacity or VE observations	No	Subpart ZZZZ does not contain opacity or VE standards.
§ 63.10(d)(4)	Progress reports	Yes	
§ 63.10(d)(5)	Startup, shutdown, and malfunction reports	No	
§ 63.10(e)(1) and (2)(i)	Additional CMS Reports	Yes	
§ 63.10(e)(2)(ii)	COMS-related report	No	Subpart ZZZZ does not require COMS.
§ 63.10(e)(3)	Excess emission and parameter exceedances reports	No	Excess emissions and exceedance reporting is specified in §63.6650.
§ 63.10(e)(4)	Reporting COMS data	No	Subpart ZZZZ does not require COMS.
§ 63.10(f)	Waiver for recordkeeping/reporting	Yes	
§ 63.11	Flares	No	
§ 63.12	State authority and delegations	Yes	
§ 63.13	Addresses	Yes	
§ 63.14	Incorporation by reference	Yes	
§ 63.15	Availability of information	Yes	

TAPCR 1200-03-09-.03(8) and 0400-30-38-.01

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**ATTACHMENT 5**

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**Title V Fee Selection Form (APC 36)**

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DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF AIR POLLUTION CONTROL  
Davy Crockett Tower, 7<sup>th</sup> Floor  
500 James Robertson Parkway, Nashville, TN 37243  
Telephone: (615) 532-0554, Email: [Air.Pollution.Control@TN.gov](mailto:Air.Pollution.Control@TN.gov)

APC 36

## TITLE V FEE SELECTION

Type or print and submit to the email address above.			
<b>FACILITY INFORMATION</b>			
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	
<b>FEE SELECTION</b>			
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) <input type="checkbox"/>		Fiscal Year Basis (July 1 – June 30) <input type="checkbox"/>	
7. Payment Basis (choose one):			
Actual Emissions Basis <input type="checkbox"/> Allowable Emissions Basis <input type="checkbox"/> Combination of Actual and Allowable Emissions Basis <input type="checkbox"/>			
8. If Payment Basis is "Actual Emissions" or "Combination of Actual and Allowable Emissions", complete the following table for each permitted source and each pollutant for which fees are due for that source. See instructions for further details.			
Source ID	Pollutant	Allowable or Actual Emissions	If allowable emissions: Specify condition number and limit. If actual emissions: Describe calculation method and provide example. Provide condition number that specifies method, if applicable.

8. (Continued)					
Source ID	Pollutant	Allowable or Actual Emissions	If allowable emissions: Specify condition number and limit.		
			If actual emissions: Describe calculation method and provide example. Provide condition number that specifies method, if applicable.		
CONTACT INFORMATION (BILLING)					
9. Billing contact				Phone number with area code	
Mailing address (St./Rd./Hwy.)				Fax number with area code	
City		State	Zip code	Email address	
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					Date
Signer's name (type or print)			Title		Phone number with area code



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**ATTACHMENT 6**

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**Agreement Letters**

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# Powell Valley Electric Cooperative

**420 STRAIGHT CREEK ROAD - NEW TAZEWell, TN 37825**

**P.O. Box1528 - NEW TAZEWell, TN 37824**

**PHONE: 423-626-5204 FAX: 423-626-0711**

July 17, 2025

Tennessee Department of Environment and Conservation  
Division of Air Pollution Control  
Davy Crockett Tower, 7<sup>th</sup> Floor  
500 James Robertson Parkway  
Nashville, TN 37243

RE: Permit Agreement Letter  
Powell Valley Electric Cooperative  
Kyles Ford Station  
8806 Kyles Ford Hwy  
Kyles Ford, TN 37765  
Emission Source Reference No. [APC Facility ID -34-0014] / Permit No. 582139

Dear Technical Secretary:

On behalf of Powell Valley Electric Cooperative (PVEC), the following limitations are agreed upon for the above-mentioned facility:

Parameter	Unit of Measure	Facility Wide	Per Emission Unit
Annual Operating Hours	Hours/year <sup>1</sup>	9,790	-
Particulate Matter (PM)	lb/hr	-	0.58
	ton/yr	2.1	-
Sulfur Dioxide (SO <sub>2</sub> )	lb/hr	-	8.30
	ton/yr	40.6	-
Nitrogen Oxides (NO <sub>x</sub> )	lb/hr	-	61.24
	ton/yr	249.8	-
Carbon Monoxide (CO)	lb/hr	-	3.57
	ton/yr	9.7	-
Volatile Organic Compounds (VOC)	lb/hr	-	-
	ton/yr	3.6	-

Note (1) – for the purposes of the term “year”, this means any 12-consecutive month period.

PVEC Kyles Ford Station shall demonstrate compliance with these permitted emissions limits and hours of operations by maintaining compliance with applicable permit conditions for work practices, compliance testing, monitoring, recordkeeping, and reporting. Records will be maintained at PVEC main offices located in New Tazewell, TN for not less than five (5) years from relevant dates.

If you have further questions, please call Brad Coppock at (423) 626-0701.

I, the undersigned, am the responsible official as defined in TAPCR 1200-03-09-.02 (11)(b)21 for Powell Valley Electric Cooperative (PVEC), for which this document is being submitted. I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements and information contained in this document are true, accurate, and complete.

Signature 

Name (Printed) Brad Coppock

Title General Manager

Date July 17, 2025

## **TITLE V PERMIT STATEMENT**

<b>Facility Name:</b>	Powell Valley Electric Cooperative, Inc.
<b>City:</b>	Kyles Ford
<b>County:</b>	Hancock

<b>Date Application Received:</b>	February 1, 2024
<b>Date Application Deemed Complete:</b>	March 5 ,2024

<b>Emission Source Reference No.:</b>	34-0014
<b>Permit Number:</b>	582139

### **Introduction**

This narrative is being provided to assist the reader in understanding the content of the attached Title V operating permit. This Title V Permit Statement is written pursuant to Tennessee Air Pollution Control Regulations 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 Powell Valley Electric Cooperative, Inc. and to provide practical methods for determining compliance with these requirements. The following narrative is designed to accompany the Title V Operating Permit. It initially describes the facility receiving the permit, then the applicable requirements and their significance, and finally the compliance status with those applicable requirements. This narrative is intended only as an adjunct for the reviewer and has no legal standing. Any revisions made to the permit in response to comments received during the public participation process will be described in an addendum to this narrative.

### **Acronyms**

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

## **I. Identification Information:**

### **A. Source Description**

Powell Valley Electric Cooperative, Inc. (PVEC) is a consumer-owned utility company that provides electricity to northeast Tennessee and southwest Virginia. PVEC's facility in Kyles Ford, Tennessee consists of eleven (11) 2,628 hp diesel-fired engines (sources 01 through 11) that provide back-up utility power to the Tennessee Valley Authority (TVA) during periods of high demand. No. 2 fuel oil is the only fuel source used in the engines and is provided by TVA. Each engine is equipped with a Diesel Oxidation Catalyst (DOC) to control and reduce carbon monoxide (CO) emissions.

### **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.

### **C. Regulatory Status**

1. **PSD/NSR:** This facility is not a major source under PSD.
2. **Title V Major Source by Pollutant**

<b>Pollutant</b>	<b>Is the pollutant emitted?</b>	<b>Minor Source</b>	<b>Major Source</b>
PM	<b>Yes</b>	<b>Yes</b>	No
PM10	<b>Yes</b>	<b>Yes</b>	No
SO2	<b>Yes</b>	<b>Yes</b>	No
VOC	<b>Yes</b>	<b>Yes</b>	No
NOX	<b>Yes</b>	No	<b>Yes</b>
CO	<b>Yes</b>	<b>Yes</b>	No
Individual HAP	<b>Yes</b>	<b>Yes</b>	No
Total HAPs	<b>Yes</b>	<b>Yes</b>	No

### **3. NESHAP Standards**

This source is an area source of HAP emission. This source is subject to the following NESHAP Standard:

National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63, Subpart ZZZZ).

### **4. Program Applicability**

- a. Are the following programs applicable to the facility?  
**PSD (no)** – This facility is below the thresholds for PSD applicability. This facility has requested operational limitations to avoid PSD review.  
**NESHAP (yes)** – This facility is subject to the National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63, Subpart ZZZZ).  
**NSPS (no)** – This facility is not subject to the New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60, Subpart IIII). The engines at the facility were constructed prior to July 11, 2005.

### **5. Other Standards**

- a. Compliance Assurance Monitoring (CAM) – Pursuant to 40 CFR §64.2(b)(2), this facility is exempt from CAM. This facility is utilized as a back-up utility power source for TVA. In the Title V permit renewal application (permit #573138), dated September 21, 2017, the facility

stated they would continue to operate and maintain the source(s) to assure compliance with all applicable requirements for the duration of the permit.

## II. Compliance Information

### A. Compliance Status

1. Is the source currently in compliance with all applicable requirements? **Yes**
2. Are there any applicable requirements that will become effective during the permit term? **Online Reporting (40 CFR §63.6650(i))**: Starting February 26, 2025, or one year after the relevant form becomes available on CEDRI, permittee must submit all Subpart ZZZZ semiannual compliance reports using the appropriate electronic report template on the CEDRI website. This is in addition to the copies sent to the Division's Permitting Program.

### B. Other Requirements

1. **Emissions Trading**. The facility is not involved in an emission trading program.
2. **Acid Rain Requirements**. This facility is not subject to any requirements in Title IV of the Clean Air Act.
3. **Prevention of Accidental Releases**. This facility is not subject to TAPCR 1200-03-32.

## III. Title V Permit History

1. The initial Title V Permit (560677) was issued on March 17, 2008.
  - a. No permit modifications (minor or significant) or administrative amendments were issued after the initial Title V.
2. The first Title V Permit Renewal (566324) was issued on June 10, 2013. The following changes were made after the renewal permit was issued:
  - a. Minor Permit Modification No. 1 was issued on July 15, 2015. This modification was to replace the existing muffler on each of the 11 engines with a new muffler containing a diesel oxidation catalyst (DOC) and continuous parameter monitoring systems in order to comply with the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63, Subpart ZZZZ). In addition to this request, the facility requested that the following be revised on their permit:
    - Stack test waiver request, approved by EPA Region 4 and the Division, be incorporated into their permit.
    - Applicable 40 CFR Part 63, Subpart ZZZZ regulations be incorporated into the permit.
    - The semi-annual reports required under 40 CFR Part 63, Subpart ZZZZ (NESHAP) be sufficient for the annual compliance report requirement under 40 CFR Part 63, Subpart ZZZZ (i.e. the facility requested submitting the annual compliance report, sans NESHAP reporting, once per year and the 40 CFR Part 63, Subpart ZZZZ semi-annual compliance report twice per year.) The engines that comprise this facility are demand response engines, and quite often only operate a few hours per year. However, they are not considered limited use stationary RICE which are defined in 40 CFR §63.6675 as "any stationary RICE that operates less than 100 hours per year." The annual reporting requirement listed in Table 7 to Subpart ZZZZ applies only to limited use stationary RICE.
    - Change the facility site contact from Mr. Steve Blocker to Mr. Travis Tolliver.

3. The second Title V Permit Renewal (573138) was issued on February 25, 2019.
  - a. No permit modifications (minor or significant) or administrative amendments were issued for Permit 573138.
4. The third Title V Permit Renewal (582139) was issued on <date>. The following changes were made in this permit renewal:
  - Permit Sections A through D were updated to the current format and language.
  - The Fee Emission Summary Table (Section E1) was updated to the new format. The notes and fee payment sections were updated.
  - Condition E4-9 was removed from the list of conditions in Condition E2(a)(1) for semiannual reporting requirements. Condition E4-9 is referenced in other source-specific conditions but contains no specific monitoring or recordkeeping requirements.
  - Condition E2(c) regarding NESHAP Reporting was added.
  - Conditions in Section E3 were reorganized and updated to the current approved language.
  - Condition E3-7 was added to indicate that the facility is an area source of HAP emissions.
  - An agreement letter was requested for the operating hour limit in Condition E4-2. This limit allows the facility to avoid PSD applicability.
  - The annual emission limit for PM in Condition E4-3 was reduced from 2.84 tons per year to 2.1 tons per year to reflect the statement in the compliance method. The annual emission limit is based on the nominal emission rate of 0.42 pounds per hour provided in the manufacturer's test data, dated January 12, 2000, and the actual hours of operation at the nominal operating capacity from the logs in Condition E4-2. The original limit was calculated using 0.58 pounds per hour instead of 0.42 pounds per hour.  $[0.42 \text{ lb/hr} * 9,790 \text{ hr/yr} / 2,000 \text{ lb/ton} = 2.1 \text{ tpy}]$
  - The annual emission limit for CO in Condition E4-7 was reduced from 17.47 tons per year to 9.7 tons per year to reflect the statement in the compliance method.
  - The annual emission limit for VOC in Condition E4-8 was reduced from 4.8 tons per year to 3.6 tons per year to reflect the statement in the compliance method.
  - The applicable requirements of 40 CFR 63, Subpart ZZZZ have been renumbered from E conditions to F conditions. The requirements have been updated to reflect the current language, and some conditions have been combined.

#### IV. Public Participation Procedures

A. The following agencies were notified of the Title V draft permit for this company:

1. EPA, Region IV
2. Kentucky Division for Air Quality
3. The North Carolina Department of Environment and Natural Resources
4. Virginia Department of Environmental Quality
5. Johnson City Environmental Field Office

B. Dates of Public Comment and EPA Review Periods

Public Notice publication date	<u>July 18, 2025</u>
Public Notice period completion date	<u></u>
EPA Notification date/concurrent review requested	<u>July 18, 2025</u>
EPA review period completion date	<u></u>
EPA review comments received	<u></u>
Final Permit issuance date	<u></u>



## RESPONSE TO COMMENTS

<b>Facility Name:</b>	Powell Valley Electric Cooperative, Inc.
<b>City:</b>	Kyles Ford
<b>County:</b>	Hancock

<b>Date Application Received:</b>	February 1, 2024
<b>Date Application Deemed Complete:</b>	March 5, 2024
<b>Date of Public Notice:</b>	July 18, 2025
<b>Date of Public Hearing:</b>	

<b>Emission Source Reference No.:</b>	34-0014
<b>Permit Number:</b>	582139

### For Public Hearing (If Applicable)

<b>Hearing Officer:</b>	
<b>Division of Air Pollution Control Rep.:</b>	
<b>Other Divisions:</b>	
<b>Public:</b>	

### Comment Summary:

<b>Commenter</b>	<b>Comment</b>	<b>Response</b>