

PUBLIC NOTICE

DIVERSIFIED SCIENTIFIC SERVICES, INC. has applied to the Tennessee Department of Environment and Conservation, Division of Air Pollution Control for renewal of their major source (Title V) operating permit subject to the provisions of Tennessee Air Pollution Control Regulations 1200-03-09-.02(11) (Title V Regulations). A major source operating permit is required by both the Federal Clean Air Act and Tennessee's air pollution control regulations. However, it should be noted that this facility has a current major source operating permit.

The applicant is **DIVERSIFIED SCIENTIFIC SERVICES, INC.** with a site address of 657 Gallaher Road in Kingston, Tennessee, in Roane County. They have applied for renewal of their existing major source (Title V) operating permit for mixed and low-level radioactive waste storage and treatment operation. This operation is also subject to the requirements of the US Department of Energy and the Resource Conservation and Recovery Act (RCRA).

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

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

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

Knoxville Environmental Field Office
3711 Middlebrook Pike, Suite 101
Knoxville, TN 37921
Phone: (865) 594-6035
APC.KnoxEFO@tn.gov

and

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

Electronic copies of the draft permits 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 Doug Wright at (615) 812-9925 or by e-mail at douglas.wright@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 24, 2026**. 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, 500 James Robertson Parkway 7th Floor, Nashville, Tennessee 37243.
2. **E-mail:** Submit electronic comments to air.pollution.control@tn.gov.

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

Individuals with disabilities who wish to review information maintained at the above-mentioned depositories should contact the Tennessee Department of Environment and Conservation to discuss any auxiliary aids or services needed to facilitate such review. Such contact may be in person, by writing, telephone, or other means, and should be made no less than ten days prior to the end of the public comment period to allow time to provide such aid or services. Contact the Tennessee Department of Environment and Conservation ADA Coordinator, Davy Crockett Tower, 5th Floor, 500 James Robertson Parkway, Nashville, TN 37243, 1-(866)-253-5827. Hearing impaired callers may use the Tennessee Relay Service, 1-(800)-848-0298.

Air Pollution Control DATE: 7-24-26

Assigned to – D. Wright

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 Comprehensive Rules and Regulations. The permittee has been granted permission to operate an air contaminant source in accordance with emissions limitations and monitoring requirements set forth herein.

Issue Date: **Draft / proposed permit**

Permit Number: **582014**

Expiration Date: **Draft plus five years**

Issued To:

Installation Address:

Diversified Scientific Services, Inc. (DSSI)

**657 Gallaher Road
Kingston, TN 37763**

Installation Description:

- | | |
|-------------------|--|
| 73-0137-01 | Mixed waste and natural gas -fired RCRA industrial boiler with spray dryer/quench, fabric filter, scrubber, and HEPA filter controls |
| 73-0137-06 | Bulk Waste Liquid Unloading/Storage/Processing; Liquefaction Solids Grinder and Mix Tank; Process Test Tanks and Waste Feed Surge Tank; Container and Labpack Unloading/Processing; RCRA Stabilization Treatment Unit Enclosure; Container Processing in Filter Room Enclosure; Containerized Waste Storage Building and Analytical Laboratory |

Emission Source Reference No.: **73-0137**

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

Primary SIC: 49

Information Relied Upon:

Title V renewal application dated December 12, 2023
Emails dated April 5, 2024, April 16, 2024, and May 8, 2026
Letter dated July 2, 2024
Comments dated June 29, 2026

(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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carbon filter control. RCRA Stabilization Treatment Unit Enclosure Exhaust with HEPA filter control.

End of conditions

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END OF PERMIT NUMBER 582014

- ATTACHMENT 1 Opacity Matrix Decision Tree for Visible Emission Evaluation by EPA Method 9, dated June 18, 1996, and amended September 11, 2013**
- ATTACHMENT 2 T5 Fee Selection Form**
- ATTACHMENT 3 Selected Regulatory Language from 40 CFR 63.1207(d)**
- ATTACHMENT 4 Notification of Compliance for 40 CFR Part 63 Subpart EEE dated OCTOBER 12, 2020**
- ATTACHMENT 5 General Provisions For 40 CFR 63, Subpart EEE, Hazardous Waste Combustors**
- ATTACHMENT 6 General Provisions For 40 CFR 61, Subpart C, Beryllium**

SECTION A

GENERAL PERMIT CONDITIONS

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

- A1. Definitions.** Terms not otherwise defined in the permit shall have the meaning assigned to such terms in the referenced 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 PM₁₀) 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 PM₁₀ on an allowable emission basis may do so if they have a specific PM₁₀ allowable emission standard. If a major source has a total particulate emission standard, but wishes to pay annual emission fees on an actual PM₁₀ emission basis, it may do so if the PM₁₀ actual emission levels are proven to the satisfaction of the Technical Secretary. The method to demonstrate the actual PM₁₀ emission levels must be made as part of the source's major source operating permit in advance in order to exercise this option. The PM₁₀ emissions reported under these options shall not be subject to fees under the family of particulate emissions. The 4,000 ton cap provisions of TAPCR subparagraph 1200-03-26-.02(2)(i) shall also apply to PM₁₀ 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 risk management plan. The annual certification is due in the office of the Technical Secretary no later than January 31 of each year. Said certification will be for the preceding calendar year.

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

SECTION B

GENERAL CONDITIONS for MONITORING, REPORTING, and ENFORCEMENT

- B1. Recordkeeping.** Monitoring and related record keeping shall be performed in accordance with the requirements specified in the permit conditions for each individual permit unit. In no case shall reports of any required monitoring and record keeping be submitted less frequently than every six months.
- (a) Where applicable, records of required monitoring information include the following:
1. The date, place as defined in the permit, and time of sampling or measurements;
 2. The date(s) analyses were performed;
 3. The company or entity that performed the analysis;
 4. The analytical techniques or methods used;
 5. The results of such analyses; and
 6. The operating conditions as existing at the time of sampling or measurement.
- (b) Digital data accumulation which utilizes valid data compression techniques shall be acceptable for compliance determination as long as such compression does not violate an applicable requirement and its use has been approved in advance by the Technical Secretary.

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

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

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

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

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

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

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

- B5. Annual compliance certification.** The permittee shall submit annually compliance certifications with terms and conditions contained in Sections A, B, D and E of this permit, including emission limitations, standards, or work practices. This compliance certification shall include all of the following (provided that the identification of applicable information may cross-reference the permit or previous reports, as applicable):
- (a) The identification of each term or condition of the permit that is the basis of the certification;
- (b) The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period; such methods and other means shall include, at a minimum, the methods and means required by this permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Federal Act, which prohibits knowingly making a false certification or omitting material information;
- (c) The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in B5(b) above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion* or exceedance** as defined below occurred; and

(d) Such other facts as the Technical Secretary may require to determine the compliance status of the source.

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

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

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

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

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

B7. Emergency provisions. An emergency constitutes an affirmative defense to an enforcement action brought against this source for noncompliance with a technology-based emission limitation due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

(a) The affirmative defense of the emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

1. An emergency occurred and that the permittee can identify the probable cause(s) of the emergency. "Probable" must be supported by a credible investigation into the incident that seeks to identify the causes and results in an explanation supported by generally accepted engineering or scientific principles.

2. The permitted source was at the time being properly operated. In determining whether or not a source was being properly operated, the Technical Secretary shall examine the source's written standard operating procedures which were in effect at the time of the noncompliance and any other code as detailed below that would be relevant to preventing the noncompliance. Adherence to the source's standard operating procedures will be the test of adequate preventative maintenance, careless operation, improper operation or operator error to the extent that such adherence would prevent noncompliance. The source's failure to follow recognized standards of practice to the extent that adherence to such a standard would have prevented noncompliance will disqualify the source from any claim of an emergency and an affirmative defense.

3. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.

4. The permittee submitted notice of the emergency to the Technical Secretary according to the notification criteria for malfunctions in TAPCR Rule 1200-03-20-.03. For the purposes of this condition, "emergency" shall be substituted for "malfunction(s)" in TAPCR Rule 1200-03-20-.03 to determine the relevant notification threshold. The notice shall include a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding the permittee seeking to establish the occurrence of an emergency has the burden of proof.

(c) The provisions of this condition are in addition to any emergency, malfunction or upset requirement contained in TAPCR Divisions 1200-03 and 0400-30 or other applicable requirement.

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

B8. Excess emissions reporting.

(a) The permittee shall promptly notify the Technical Secretary when any emission source, air pollution control equipment, or related facility breaks down in such a manner to cause the emission of air contaminants in excess of the applicable emission standards contained in 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)

SECTION C

PERMIT CHANGES

- C1. Operational flexibility changes.** The source may make operational flexibility changes that are not addressed or prohibited by the permit without a permit revision subject to the following requirements:
- (a) The change cannot be subject to a requirement of Title IV of the Federal Act or 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)

SECTION D

GENERAL APPLICABLE REQUIREMENTS

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. 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**

73-0137	<u>Facility Description:</u>	Diversified Scientific Services, Inc. (DSSI) owns and operates a Resource Conservation and Recovery Act (RCRA) regulated Mixed waste storage and treatment facility. The primary facility activities include waste management operations within the permitted container and tanks storage/treatment units and the operation of a waste fuel-fired boiler combustion unit pursuant to 40 CFR 266, Subpart H. Wastes include RCRA hazardous waste (e.g. used oils, solvents, and aqueous solutions), low-level radioactive wastes, PCBs, and mixed waste (RCRA hazardous and low level radioactive waste). The waste fuel-fired boiler is subject to 40 CFR 63 Subpart EEE (hazardous waste combustor MACT).
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Conditions E1 and E2 apply to all sources in Section E of this permit unless otherwise noted.

E1. Fee payment**FEE EMISSIONS SUMMARY TABLE FOR MAJOR SOURCE 73-0137**

REGULATED POLLUTANTS	ALLOWABLE EMISSIONS (tons per AAP)	ACTUAL EMISSIONS (tons per AAP)	COMMENTS
PARTICULATE MATTER (PM)	18.0	AEAR	Fee emissions for source 06 included. Fee emissions for source 01 are not included.
SO₂	21.9	AEAR	Includes all fee emissions.
VOC	15.0	AEAR	Includes all fee emissions.
NO_x	39	AEAR	Includes all fee emissions.
HAPs from Insignificant Sources	0.2	AEAR	Includes all insignificant sources.
Facility-Wide Total HAP Limit	NA	AEAR	See miscellaneous pollutants below
Facility-Wide Individual HAP Limit	NA	AEAR	See miscellaneous pollutants below
HAZARDOUS AIR POLLUTANTS (HAPs) NOT INCLUDED ABOVE*			
NON-VOC GASEOUS GROUP Hydrogen Chloride/Cl ₂	3.35	AEAR	Fee emissions are not included above. MACT Subpart EEE (§63.1217(a)(6))
PM FAMILY GROUP Particulate Matter	0.03	AEAR	Fee emissions are not included above. These are source 01 emissions. MACT Subpart EEE (§63.1217(a)(7))
MISCELLANEOUS POLLUTANTS NOT LISTED ABOVE**			
EACH MISC POLLUTANT NOT LISTED ABOVE			
Hydrogen Fluoride [HF]	2.9	AEAR	Fee emissions are not included above TAPCR 1200-03-03-.03(1)(b)
Dioxin and Furan	0.00014	AEAR	Fee emissions are not included above MACT Subpart EEE (§63.1217(a)(1))
Mercury	0.046	AEAR	Fee emissions are not included above MACT Subpart EEE (§63.1217(a)(2))
Chromium	0.132	AEAR	Fee emissions are not included above MACT Subpart EEE (§63.1217(a)(4))
Cadmium and Lead	0.053	AEAR	Fee emissions are not included above MACT Subpart EEE (§63.1217(a)(3))
Beryllium	0.004	AEAR	Fee emissions are not included above MACT Subpart C (§61.32(a))

NOTES

AAP The **Annual Accounting Period (AAP)** is a 12 consecutive month period that **either (a) begins each July 1st and ends June 30th of the following year when fees are paid on a fiscal year basis, or (b) begins January 1st and ends December 31st of the same year when paying on a calendar year basis.** The AAP at the time of **permit renewal** began **July 1, 2026** and ends **June 30, 2027**. The next AAP begins **July 1, 2027** and ends **June 30, 2028** unless a request to change the annual accounting period is submitted by the responsible official as required by subparagraph 1200-03-26-.02(9)(b) of the TAPCR and approved by the Technical Secretary. If the permittee wishes to revise their annual accounting period or their annual emission fee basis as allowed by subparagraph 1200-03-26-.02(9)(b) of the TAPCR, the responsible official must submit the request to the Division in writing on or before December 31 of the annual accounting period for which the fee is due. If a change in fee basis from allowable emissions to actual emissions for any pollutant is requested, the request from the responsible official must include the methods that will be used to determine actual emissions. **Changes in fee bases must be made using the Title V Fee Selection form, form number APC 36 (CN-1583), included as an attachment to this permit and available on the Division of Air Pollution Control's website.**

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

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], SO₂, VOC, NO_x 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

- The permittee shall:**
- (1) Pay Title V **annual fees** (including the emissions fee, base fee, significant modification fee, & 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 and

Actual Emissions Analyses to:

A "Title V Emissions Summary Form" and the AEAR must be

Conservation
Division of Fiscal Services
Consolidated Fee Section – APC
Davy Crockett Tower, 6th Floor
500 James Robertson Parkway
Nashville, Tennessee 37243

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. General Facility Conditions

E2-1. Reporting requirements.

- (a) **Semiannual reports.** Semiannual reports shall cover the six-month periods from **January 1, 2026** to **June 30, 2026**, and **July 1, 2026**, to **December 31, 2026** 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
574059	July 1, 2026	day before new permit issuance (with year)
582014	Issuance Date of new permit (with year)	December-31-2026

These semiannual reports shall include:

- (1) Any monitoring and recordkeeping required by conditions **E3-2** and **E4-1** 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 **E3-3 and E4-3** 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.
- (4) The MACT report required by Condition **E3-24** of this permit shall be submitted separate from this semiannual report to Air.Pollution.Control@tn.gov.

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, 2026** to **December 31, 2026** 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
574059	January 1, 2026	day before new permit issuance (with year)
582014	Issuance Date of new permit (with year)	December 31, 2026

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

Division of Air Pollution Control
Knoxville Environmental Field Office
3711 Middlebrook Pike, Suite 101
Knoxville, TN 37921
 or
APC.Knox@tn.gov

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

E2-2. Recordkeeping: Data Entry Requirements

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

- E2-3.** HAP emissions from insignificant activities at this facility have the potential to emit no more than 0.2 tons per year. Pursuant to **TAPCR 1200-03-09-.04(5)(c)**, the permittee may be considered to meet the monitoring and related recordkeeping and reporting requirements of **TAPCR 1200-03-09-.02(11)(e)1.(iii)** and **1200-03-10-.04(2)(b)(1)**, and the compliance requirements of

TAPCR 1200-03-09-.02(11)(e)3.(i) for this condition by annual certification of compliance, as required in TAPCR 1200-03-09-.02(11)(d)1.(ii)(I) and **Condition E2-1(b)**.

TAPCR 1200-03-09-.04(5)(a)4. and 1200-03-09-.04(5)(c), Condition 2 of Construction Permit 961535

- E2-4. Visible Emissions Evaluation: General Requirements:** For all emission sources that use opacity matrix decision trees (Attachment 1) to comply with any visible emissions requirement, including emission sources for which visible emissions are not required by the opacity matrix, if the magnitude and frequency of excursions reported by the permittee in the periodic monitoring for emissions is unsatisfactory to the Technical Secretary, this permit may be reopened to impose additional opacity monitoring requirements.

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

- E2-5. Identification of Responsible Official, Technical Contact, and Billing Contact**

a) The application that was utilized in the preparation of this permit is dated December 12, 2023, and signed by Responsible Official Kenyon Mee, General Manager of the permitted facility. On April 1, 2024, the RO was updated to John Kelly. On July 2, 2024, the Division received notification that Mr. Kelly was replaced by Mr. Danny Farmer as the new responsible official. If the designated Responsible Official 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 thirty (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 December 12, 2023, and identifies Richard Devin, DSSI Compliance Officer, as the Principal Technical Contact for the permitted facility. If the identified Principal Technical Contact 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 thirty (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 December 12, 2023, and identifies Richard Devin, DSSI Compliance Officer, as the Billing Contact for the permitted facility. If the identified Billing Contact 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 thirty (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)

- E2-6.** This permit is not transferable from one air contaminant source to another air contaminant source nor from one location to another location.

TAPCR 1200-03-09-.03(6)(b)

- E2-7.** In the event an ownership change occurs at this facility, written notification of the ownership change requesting a permit amendment must be submitted to the Technical Secretary at the address below no later than thirty days after the change occurs. This notification must include an agreement to abide by the terms of the permit, Division 1200-03 and Division 0400-30 of the Tennessee Comprehensive Rules and Regulations, the Tennessee Air Quality Act, and any documented agreements made by the previous owner to the Technical Secretary. The notification shall be sent to the following address or via electronic mail.

Division of Air Pollution Control
Davy Crockett Tower, 7th floor
500 James Robertson Parkway

or Adobe Portable Document Format (PDF)
Air.Pollution.Control@tn.gov

Nashville, TN 37243

TAPCR 1200-03-09-.03(6)(a)

- E2-8.** This source 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)

- E2-9.** Routine Maintenance Requirements:

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

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

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

- E2-10. Startup, Shutdown, and Malfunction Requirements:**

A. The facility must take all reasonable measures to keep emissions to a minimum during source 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.

TAPCR 1200-03-20-.02(1)

B. Monitoring Systems: Due allowance for failure to monitor shall be made during any period of monitoring system malfunction, provided that the source owner or operator shows, to the satisfaction of the Technical Secretary, that the malfunction was unavoidable and is being repaired as expeditiously as practicable, and that a log of all such malfunctions is being kept by the owner or operator, including the time the malfunction began, when it was detected, what was wrong, what was done to correct the malfunction, and when the malfunction was corrected. Failures that are caused by poor maintenance, careless operation or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions.

TAPCR 1200-03-10-.02(e)

Compliance Method: The permittee shall comply with the general facility Startup, Shutdown, and Malfunction (SSM) plan and the SSM Plan for the NESHAP/ MACT boiler (source 73-0137-01).

- E2-11.** Insignificant activities (as defined at TAPCR 1200-03-09-.04(5)) for this facility are listed below. Additional insignificant activities may be added and operated at any time with the provision that a written notification shall be submitted to the Technical Secretary or a Division representative, including an updated APC2 application form along with a truth, accuracy, and completeness statement signed by a responsible official.

Description	Applicable Rule
Auxiliary (non-process) steam Boiler, gas fired, 4MMBTU/hr	1200-03-09-.04(5)(a)(4)(i)
Two diesel fuel storage tanks supplying emergency use IC engines, 250 gallons each	1200-03-09-.04(5)(a)(4)(i) 1200-03-09-.04(4)(d)12
Two diesel fuel storage tanks, 1,000 gallons each	1200-03-09-.04(5)(a)(4)(i) 1200-03-09-.04(4)(d)12 and 14
Analytical laboratory exhausts (hoods and analytical equipment)	1200-03-09-.04(5)(f)(19).

Two Combustion Ignition and one Spark Ignition emergency generator engines	1200-03-09-.04(5)(a)(4)(i), 1200-0309-.04(5)(c)1, and 0400-30-38-.01(2)
Room ventilators	1200-03-09-.04(5)(g)(3).
Vehicular traffic	1200-03-09-.04(5)(f)(1) and (2)
Facility cooling towers and boiler water systems	1200-03-09-.04(5)(f)(15).
Non-contact process steam vents and air compressor condensate evaporator vents	1200-03-09-.04(5)(f)(41).
Portable welding equipment	1200-03-09-.04(5)(f)(21).
Outdoor kerosene heaters	1200-03-09-.04(5)(f)(32)
Compressed gas air dryers and distribution	200-03-09-.04(5)(f)(77).
Maintenance activities	1200-03-09-.04(5)(f)(45) & (g)13).

Emission source 06 is subject to 40 CFR part 61, subpart C, Standards of Performance For Beryllium

F1-1. The provisions of 40 CFR 61 Subpart C —National Emission Standard for Beryllium are applicable to the following stationary sources, and the permittee shall comply with the applicable provision of this rule:

- (a) Extraction plants, ceramic plants, foundries, incinerators, and propellant plants which process beryllium ore, beryllium, beryllium oxide, beryllium alloys, or beryllium-containing waste.
- (b) Machine shops which process beryllium, beryllium oxides, or any alloy when such alloy contains more than 5 percent beryllium by weight.

§61.30 Applicability Definitions

The following definitions apply when using the above applicability determination:

Beryllium means the element beryllium. Where weights or concentrations are specified, such weights or concentrations apply to beryllium only, excluding the weight or concentration of any associated elements.

Beryllium alloy means any metal to which beryllium has been added in order to increase its beryllium content and which contains more than 0.1 percent beryllium by weight.

TAPCR 1200-03-09-.03(8) and §61.31 Definitions.

Compliance Method: Not required for Definitions

F1-2. Emissions to the atmosphere from this source shall not exceed 10 grams (0.022 lb) of beryllium over a 24-hour period.

TAPCR 1200-03-09-.03(8) and 40 CFR §61.32 (a) and facility comments dated June 29, 2026

Compliance Method: Unless a waiver of emission testing is obtained under §61.13, the permittee that is required to comply with §61.32(a) shall test emissions from this source according to Method 104 of appendix B to part or according to Method 29 of appendix A to part 60. Method 103 of appendix B to part 61 is approved by the Administrator as an alternative method for sources subject to §61.32(a). The emission test shall be performed:

Within 90 days of the first incineration of beryllium containing waste at this process after the issuance of this permit. Subsequent emissions testing shall be performed as defined in Condition E3-7.

F1-3. Possible Extension of emission test

Except as provided in paragraph (a)(5) of section §61.13 (see (a)(5) below)), if required to do emission testing an applicable subpart and unless a waiver of emission testing is obtained under this section, the owner or operator shall test emissions from the source:

(a)(2) Within 90 days after initial startup, for a new source which has an initial startup date after the effective date.

(a)(5) The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Division. The Division will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable.

(a)(6) Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(5) of §61.13, the owner or operator of the affected facility remains strictly subject to the requirements of this part.

Compliance Method: Not required for Statement of Applicability

F1-4. The applicable requirements of 40 CFR 61 Subpart C National Emission Standard for Beryllium are incorporated into this permit pursuant to TAPCR 1200-03-09-.03(8).

Compliance Method: Not required for Statement of Applicability

F1-5 The permittee shall comply with the applicable General Provisions of 40 CFR 61 Subpart A that apply to Subpart C, as indicated in the table found in Attachment 5.

Compliance Method: As specified at Attachment 5: General Provisions for 40 CFR 61 Subpart C. Beryllium

73-0137-01	Source Description	Mixed waste and natural gas -fired RCRA industrial boiler with spray dryer/quench, fabric filter, activated carbon injection, packed-bed scrubber, and HEPA filter controls. The source is subject to NESHAP/ MACT 40 CFR 63 Subpart EEE and 40 CFR 61 Subpart C [for beryllium]. 15 million BTU/ hour heat input capacity Stack ID: ST-01
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Conditions E3-1 through E3-28 apply to source 73-0137-01.

E3-1. Only natural gas shall be used as non-waste fuel(s) for this source. Hazardous and mixed waste and PCB containing wastes used as fuel (including any solvents, surfactants, defoamers, or other appropriate fuel blending substances) shall conform to all requirements specified by the Division of Solid Waste Management, the Division of Radiological Health, and/or the United States Environmental Protection Agency.

TAPCR 1200-03-06-.03(2), 1200-03-09-.02(11)(a), Condition 5 of construction permit 961535

Compliance Method: For waste fuel the permittee shall comply with the specifications stated in the facility's Feed-stream Analysis Plan from 2008. These specifications are permit and license limits evaluated at maximum input rate which varies by each waste fuel blend. For natural gas the fuel quality specifications are defined by Federal regulations for pipeline quality natural gas. The permittee shall submit annual certification of compliance for this condition per condition E2-1(b).

E3-2. The sulfur content of the fuel(s) used by this source shall not exceed 1.0% percent by weight.

TAPCR 1200-03-06-.03(2), 1200-03-10-.02(2)(a), Condition 6 of Construction Permit 961535

Compliance Method: Compliance with this requirement shall be demonstrated as follows:

(a) Purchased natural gas combusted in the boiler system shall conform to 40 CFR §79.55 Base Fuel Specifications.

- (b) For all fuels other than natural gas, compliance shall be demonstrated by on-site or independent laboratory analysis of each batch of fuel prior to combustion. Records of this analysis shall be maintained at the source location and kept available for inspection by the Technical Secretary or an authorized representative. These records must be retained for a period of not less than five years.

- E3-3.** Visible emissions from the boiler shall not exhibit greater than twenty percent opacity except for one six-minute period per one hour or more than twenty four minutes in any twenty four hours. Visible emissions from this source shall be determined by EPA Method 9, as published in 40 CFR 60, Appendix A (six-minute average). Consistent with the requirements of Chapters 1200-03-05 and 1200-03-20 of the Tennessee Air Pollution Control Comprehensive Rules and Regulations, due allowance shall be made for excess visible emissions that are necessary or unavoidable due to routine startup and shutdown conditions.

TAPCR 1200-03-05-.01(1) and 1200-03-05-.03(6), Condition 7 of Construction Permit 961535

Compliance Method: Compliance with this condition shall be determined by the procedures of the Division's Opacity Matrix dated September 11, 2013 (Attachment 1).

- E3-4.** Hydrogen fluoride emitted from this source shall not exceed 0.66 lb/hr. This emission limitation shall apply at all times, except as noted during comprehensive performance tests (CPTs).

TAPCR 1200-03-03-.03(1)(b), 40 CFR §63.1211, Condition 8 of Construction Permit 961535

Compliance Method: Compliance with this condition is based upon the performance tests conducted March 2-3, 2002, March 26-27, 2002, and April 2-3, 2002, and shall be assured by compliance with the operating parameter limits specified in the Notification of Compliance (NOC) (see Attachment 3) and 40 CFR §63.1211.

- E3-5.** Nitrogen oxides (NO_x) emitted from this source shall not exceed 39 tons during any period of twelve consecutive months.

TAPCR 1200-03-06-.03(2), Condition 9 of Construction Permit 961535

Compliance Method: Compliance with this condition is based upon the performance test conducted **July 23-24, 2020**, and shall be assured by recordkeeping data that shows compliance with the boiler fuel restrictions of condition E3-1.

- E3-6.** Sulfur Dioxide (SO₂) emitted from this source shall not exceed 5.0 lb/hr.

TAPCR 1200-03-14-.03(5) and 1200-03-14-.03(6), Condition 10 of Construction Permit 961535

Compliance Method: Compliance with this condition is based upon the performance test conducted July 23-24, 2020, and shall be assured by recordkeeping data that shows compliance with the boiler fuel sulfur content restriction of Condition E3-2.

- E3-7.** Beryllium emitted from this source shall not exceed 10 grams during any period of twenty-four consecutive hours. This emission limitation is established pursuant to **40 CFR §61.32(a)** and the Tennessee Air Pollution Control Comprehensive Rules and Regulations and Permit Condition F1-2.

TAPCR 1200-03-09-.03(8), Condition 11 of Construction Permit 961535, and facility comments dated June 29, 2026

Compliance Method: Compliance with this condition is based upon the beryllium feed and emissions demonstrated by RCRA Trial Burn or periodic Comprehensive Performance Tests as noted in 63.1207(d) [See attachments 3 and 5]. Data needed to determine compliance with the beryllium emissions limit of this condition must be maintained at the source location and kept available for inspection by the Technical Secretary or an authorized representative. The permittee shall submit certification of compliance with this condition in the annual compliance certification required by condition E2-1(b).

- E3-8.** At least sixty days prior to any comprehensive performance test (CPT), or at least thirty days prior to any other stack test, the Technical Secretary shall be given notice of the test to allow the opportunity to have an observer present.

TAPCR 1200-03-10-.01(2) (a), 40 CFR §63.1207, Condition 12 of Construction Permit 961535

- E3-9.** For the purposes of this permit, all terms used herein shall have the meaning given them in 40 CFR 63 Subpart A and 40 CFR 63 Subpart EEE.

TAPCR 1200-03-09-.02(11) (a), 40 CFR §63.1201, Condition 13 of Construction Permit 961535

- E3-10.** The emission standards and operating requirements of **40 CFR Part 63** subpart EEE shall apply at all times except:

- (1) During periods of startup, shutdown, and malfunction; and
- (2) When hazardous waste is not in the combustion chamber and the permittee has documented in the operating record that they are complying with all other applicable requirements.

TAPCR 1200-03-09-.03(8); 40 CFR §63.1206(b)(1), Condition 14 of Construction Permit 961535

- E3-11.** Changes in design, operation, or maintenance: For all changes that may adversely affect the ability of this source to comply with the provisions of **40 CFR Part 63** subpart EEE, the permittee shall comply with the requirements of 40 CFR §63.1206(b)(5).

TAPCR 1200-03-09-.03(8); 40 CFR §63.1206(b)(5), Condition 15 of Construction Permit 961535

- E3-12.** The permittee shall comply with the requirements of 40 CFR Part 63 Subpart A (General Provisions), as indicated in 40 CFR Part 63 Subpart EEE, Table 1 (General Provisions Applicability to **40 CFR Part 63** Subpart EEE). See Attachment 4.

TAPCR 1200-03-09-.03(8), 40 CFR §63.1200, Condition 16 of Construction Permit 961535

- E3-13.** The mixed waste burning boiler shall meet the emission limits and destruction and removal efficiency (DRE) standards specified in 40 CFR §63.1217(c) (Standards For Liquid Fuel Boilers that Burn Hazardous Waste), as applicable and listed below.

Pollutant	40 CFR 63 Subpart EEE emission limit/ standard
Particulate matter	80 milligrams/ dry standard cubic meter (dscm) corrected to 7% oxygen (O ₂)
Carbon Monoxide (CO)	100 parts per million by volume (ppmv) hourly rolling average corrected to 7% O ₂
Hydrocarbons (VOC)	10 parts per million by volume (ppmv) hourly rolling average corrected to 7% O ₂
Hydrogen Chloride/ Chlorine (HCl/Cl ₂)	5.1 × 10 ⁻² lbs combined emissions of HCl/Cl ₂ attributable to the hazardous waste per MMBtu heat input
Mercury (Hg)	130 micrograms (ug)/ dscm corrected to 7% O ₂ [see 40 CFR 63.1217(a)(2)(iii)]
Dioxins/Furans	0.4 nanograms (ng) TEQ (toxicity equivalent)/dscm corrected to 7% O ₂
Lead and cadmium	150 micrograms/ dscm corrected to 7% O ₂
Chromium, arsenic, and beryllium	370 micrograms/ dscm corrected to 7% O ₂
Destruction and removal efficiency (DRE) (for hydrocarbons)	99.99%

Compliance Method: (a) Compliance with these emission limits/ standards shall be demonstrated by periodic source testing per condition E3-25 and by continuous emission monitoring for carbon monoxide. (b) Compliance with these emission limits/ standards shall be assured by operation and monitoring of the source and source emission control devices per conditions E3-15, E3-16, E3-17, E3-18, E3-22, and E3-23.

This source is equipped with continuous emission monitoring systems (CEMS) for carbon monoxide and oxygen per the requirements of 40 CFR §63.1217. The CEMS shall be operated per the requirements of 40 CFR §63.1209 and condition E3-23. The oxygen CEMS is operated to correct the CO CEMS readings to 7% Oxygen.

TAPCR 1200-03-09-.03(8), 40 CFR §63.1217, Condition 17 of Construction Permit 961535

- E3-14.** No later than the compliance dates for existing sources as specified in 40 CFR 63 Subpart EEE, the permittee shall demonstrate that the boiler is in compliance with the applicable provisions of 40 CFR Part 63 Subpart EEE, in accordance with the compliance provisions of 40 CFR §63.1206.

TAPCR 1200-03-09-.03(8), 40 CFR §63.1206, Condition 18 of Construction Permit 961535

Compliance Method: The permittee conducted source performance and confirmatory testing in 2009, 2012, 2015, 2017, 2020, 2023, and 2025 to demonstrate compliance with provisions of 40 CFR 63 Subpart EEE. The most recent testing was conducted on July 16-17, 2025.

E3-15. The permittee shall operate in accordance with the Notification of Compliance (NOC) (see Attachment 3). In the event of subsequent changes to the NOC, the permittee shall:

- (a) Operate in accordance with the most recent NOC (based on postmark date of the submittal); and
- (b) Together with the revised NOC, submit a permit modification application to incorporate the revision into the Title V permit.

TAPCR 1200-03-09-.03(8), 40 CFR §§63.1206, 63.1210, and 70.7(e)(2)(v), Condition 19 of Construction Permit 961535

E3-16. The permittee shall operate in accordance with the most recent Feedstream Analysis Plan. This plan shall be maintained at the source location and kept available for inspection by the Technical Secretary or an authorized representative.

TAPCR 1200-03-09-.03(8), 40 CFR §63.1209, Condition 20 of Construction Permit 961535

E3-17. The permittee shall operate in accordance with the Startup, Shutdown, and Malfunction Plan (SSMP) submitted to the Technical Secretary. The permittee shall operate in accordance with the most recent SSMP. This plan shall be maintained at the source location and kept available for inspection by the Technical Secretary or an authorized representative.

TAPCR 1200-03-09-.03(8), 40 CFR §§63.6 and 63.1206, Condition 21 of Construction Permit 961535

E3-18. The permittee shall operate in accordance with the most recent Operations and Maintenance Plan. This plan shall be maintained at the source location and kept available for inspection by the Technical Secretary or an authorized representative.

TAPCR 1200-03-09-.03(8), 40 CFR §63.1206, Condition 22 of Construction Permit 961535

E3-19. The permittee shall operate in accordance with the most recent Operator Training and Certification Plan. This plan shall be maintained at the source location and kept available for inspection by the Technical Secretary or an authorized representative.

TAPCR 1200-03-09-.03(8), 40 CFR §63.1206, Condition 23 of Construction Permit 961535

E3-20. The permittee shall operate in accordance with the most recent Continuous Monitoring System Quality Assurance / Quality Control Plan (CMS Plan). This plan shall be maintained at the source location and kept available for inspection by the Technical Secretary or an authorized representative.

TAPCR 1200-03-09-.03(8), 40 CFR §63.8, Condition 24 of Construction Permit 961535

E3-21. The hazardous waste combustion operation shall be equipped with an Automatic Waste Feed Cutoff (AWFCO) system which meets all requirements of 40 CFR Part 63 Subpart EEE. Unless an alternate set of operating specifications for the AWFCO are approved in writing by the Division, the specifications shall require, at a minimum, that the permittee shall:

- (a) Provide the AWFCO with interlocks so that it shall immediately and automatically cut off the hazardous waste feed when any of the following occurs:
 - (1) Any operating parameter limit specified in the NOC is exceeded;
 - (2) Any 40 CFR Part 63 Subpart EEE emission standard monitored by a Continuous Emissions Monitoring System (CEMS) is exceeded;
 - (3) The span value of any Continuous Monitoring System (CMS) detector, except a CEMS is met or exceeded;
 - (4) Upon malfunction of a CMS monitoring an operating parameter limit established in the NOC or an emission level; or

- (5) When any component of the automatic waste feed cutoff system fails.
- (b) During any AWFCO event:
 - (1) Continue to vent combustion gases to the air pollution control system;
 - (2) Continue to monitor all operating parameters and emission limits identified in this permit, and not resume hazardous waste feed until all such operating parameters and emission limits are within specified limits;
- (c) Following any AWFCO event where there is an exceedance of an emission standard or operating requirement, investigate the cause of the AWFCO, take appropriate corrective measures to minimize future AWFCOs, and record the findings and corrective measures in the operating record.
- (d) For each set of 10 exceedances of an operating parameter or emission standard during a 60-day block period, submit a written report to the Technical Secretary within 5 calendar days of the 10th exceedance.
- (e) At least weekly, test the AWFCO system and associated alarms to demonstrate operability by electronically simulating an exceedance of each operating parameter or emission standard.

TAPCR 1200-03-09-.03(8), 40 CFR §63.1206, Condition 25 of Construction Permit 961535

E3-22. The fabric filter exhaust shall be equipped with either a Bag Leak Detection System (BLDS) or a Particulate Matter Detection System (PMDS). The Mixed Waste and Natural Gas-Fired Industrial Boiler shall not operate unless the PMDS is in operation. Operating specifications for the BLDS or PMDS shall be included in the permittee's operating and maintenance plan. Those specifications shall require, at a minimum, that the permittee shall either:

- (a) Install a BLDS system that:
 - (1) Is certified by the manufacturer to be capable of continuously detecting and recording particulate matter emissions at concentrations of 1.0 milligrams per actual cubic meter unless a higher sensitivity rating is demonstrated as satisfactory and approved in writing by the Division;
 - (2) Provides output of relative or absolute particulate matter loadings; and
 - (3) Is equipped with an alarm system that will sound an audible alarm when an increase in relative particulate matter loading is detected over a preset level.
 - (4) Install and operate the BLDS in a manner consistent with USEPA's Office of Air Quality Planning and Standards Fabric Filter Bag Leak Detection Guidance (EPA Document # EPA-454/R-98-015), or as otherwise approved in writing by the Technical Secretary;
 - (5) Initiate the procedures used to determine the cause of any alarm within 30 minutes of the time the alarm first sounds;
 - (6) Alleviate the cause of the alarm by taking necessary corrective action;
 - (7) Keep records of the date, time, and duration of each alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and corrective action taken; and
 - (8) Record the percent of the operating time during each 6-month period that the alarm sounds, and provide a notification to the Technical Secretary within 30 days of the end of the 6-month period if the boiler is operated when the detector response for the associated BLDS exceeds the alarm set-point more than 5% of the time. This condition applies only to the extent it is effective under 40 CFR 63 Subpart EEE.
- (b) Or pursuant to 40 CFR 63.1206(c) (8) (i) (B), install a PMDS system that:

- (1) Is certified by the manufacturer to be capable of continuously detecting and recording particulate matter emissions at concentrations of 1.0 milligrams per actual cubic meter unless a higher sensitivity rating is demonstrated as satisfactory and approved in writing by the Division;
- (2) Provides output of relative or absolute particulate matter loadings; and
- (3) Is equipped with an alarm system that will sound an audible alarm when an increase in relative particulate matter loading is detected over a preset level.
- (4) Install and operate the PMDS in a manner consistent with available written guidance from the USEPA's Office of Air Quality Planning and Standards), or in the absence of such written guidance, the manufacturer's written specifications and recommendations for installation, operation, maintenance and quality assurance of the system, or as otherwise approved in writing by the Technical Secretary;
- (5) Includes procedures for installation, operation maintenance, and quality assurance of the PMDS in the site-specific continuous monitoring system test plan required under 40 CFR 63.8(e) (3);
- (6) Establishes the alarm set-point by either the procedures in 40 CFR 63.1206 (c)(9)(ii) or (iii);
- (7) The operating and maintenance plan must include a corrective measures plan that specified the procedures to be followed in the case of a PMDS alarm. The plan must include, at a minimum, the procedures used to determine and record the time and cause of the alarm as well as the corrective measures taken to correct the control device malfunction or minimize emissions.
- (8) Initiates the procedures used to determine the cause of any alarm within 30 minutes of the time the alarm first sounds;
- (9) Alleviates the cause of the alarm by taking necessary corrective action;
- (10) Keep records of the date, time, and duration of each alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and corrective action taken; and
- (11) Records the percent of the operating time during each 6-month period that the alarm sounds;
- (12) In calculating the operating time percentage, if inspection of the emission control device demonstrates that no corrective action is required, no alarm time is counted; and if corrective action is required, each alarm shall be counted as a minimum of 1 hour.
- (13) Records the percent of the operating time during each 6-month period that the alarm sounds, and provides a notification to the Technical Secretary within 30 days of the end of the 6-month period if the boiler is operated when the detector response for the associated PMDS exceeds the alarm set-point more than 5% of the time. This condition applies only to the extent it is effective under 40 CFR 63 Subpart EEE.

The permittee is currently using a PMDS and operating specifications are included in the facility's operating and maintenance plan which is kept at the facility.

TAPCR 1200-03-09-.03(8) and 40 CFR §63.1206, Condition 26 of Construction Permit 961535

E3-23. The permittee shall comply with the applicable requirements specified in 40 CFR §63.1209, Monitoring Requirements. However, compliance with the requirements to install, calibrate, maintain, and operate the PM CEMS is not required until such time that all performance specifications and operations requirements applicable to PM CEMS have been promulgated by the Environmental Protection Agency (EPA).

In accordance with 40 CFR §63.1209, the permittee shall conduct monitoring for the operating parameter limits (OPLs) in their most recent NOC submittal (see Attachment 3).

TAPCR 1200-03-09-.03(8) and 40 CFR §63.1209, Condition 27 of Construction Permit 961535

E3-24. Notification, Recordkeeping, and Reporting.

- (1) The permittee shall comply with the notification requirements of 40 CFR §63.1210, including the provisions of 40 CFR §63.9, as indicated in Table 1 of 40 CFR 63 Subpart EEE (General Provisions Applicability to 40 CFR Part 63 Subpart EEE).
- (2) The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR §63.1211, including the provisions of 40 CFR §63.10, as indicated in Table 1 of 40 CFR 63 Subpart EEE (General Provisions Applicability to 40 CFR Part 63 Subpart EEE). The items indicated in **Table 1** (see below) shall be submitted in pdf to Air.Pollution.Control@tn.gov, separately from the Title V semiannual reports required by **Condition E2-1(a)**.

Table 1: Reporting Requirements for MACT Report	
Report	Reference
Periodic startup, shutdown, and malfunction reports.	40 CFR §63.10(d)(5)(i)
Excessive emissions and continuous monitoring system performance report and summary report.	40 CFR §63.10(e)(3)
Excessive exceedances reports.	40 CFR §63.1206(c)(3)(vi)
Emergency safety vent opening reports.	40 CFR §63.1206(c)(4)(iv)

TAPCR 1200-03-09-.03(8) and 1200-03-09-.02(11)(e)1.(iii), 40 CFR §§63.1210 and 63.1211, Condition 28 of Construction Permit 961535

E3-25.

- (1) The permittee shall perform tests on the boiler as required by 40 CFR §§63.7 and 63.1207, in order to demonstrate compliance with the applicable standards specified in 40 CFR §63.1217 (see condition E3-13). Testing shall be conducted in accordance with the test methods and procedures specified in 40 CFR §63.1208. Previously obtained data may be submitted in lieu of testing, provided the data meet the quality criteria specified in 40 CFR §63.1207.

TAPCR 1200-03-10-.02(1)(a), 40 CFR §§63.1207 and 63.1208, Condition 29 of Construction Permit 961535

- (2) Operating conditions during subsequent testing.
 - a. Current operating parameter limits established under §63.1209 are waived during subsequent comprehensive performance testing.
 - b. Current operating parameter limits are also waived during pretesting prior to comprehensive performance testing for an aggregate time not to exceed 720 hours of operation (renewable at the discretion of the Administrator) under an approved test plan or if the source records the results of the pretesting. Pretesting means:
 - (i) Operations when stack emissions testing for dioxin/furan, mercury, semivolatile metals, low volatile metals, particulate matter, or hydrogen chloride/chlorine gas is being performed; and
 - (ii) Operations to reach steady-state operating conditions prior to stack emissions testing under paragraph (g)(1)(iii) of this section.

Compliance Method: Per the application dated April 24, 2018, a comprehensive performance test shall be conducted every five years. A confirmatory performance test shall be conducted every 2.5 years. Recent comprehensive performance testing was conducted in November 2022.

E3-26. Data Compression: The permittee may submit a written request to the Administrator for approval to use data compression techniques, as specified in 40 CFR §63.1211(d).

TAPCR 1200-03-09-.03(8); 40 CFR §63.1211(d), Condition 30 of Construction Permit 961535

E3-27. Extension of compliance date: The permittee may request an extension of the compliance date of up to one year, subject to the requirements of 40 CFR §63.1213.

TAPCR 1200-03-09-.03(8); 40 CFR §63.1213, Condition 31 of Construction Permit 961535

- E3-28.** Alternative Monitoring: Pursuant to 40 CFR §63.1209(g), the permittee may demonstrate compliance with the provisions of 40 CFR Part 63 Subpart EEE and with **Conditions E3-1 through E3-27** of this permit using an approved alternative to the monitoring requirements of 40 CFR Part 63 Subpart EEE and this permit, provided that the Technical Secretary approves the alternative monitoring in writing. Any alternative monitoring that requires approval of the U. S. EPA Administrator pursuant to 40 CFR §63.1214(c) may be used upon approval by EPA.

TAPCR 1200-03-09-.03(8); 40 CFR §63.1213, Condition 32 of Construction Permit 961535

73-0137-06	Source Description	Bulk Waste Liquid Unloading/Storage/Processing; Liquefaction Solids Grinder and Mix Tank; Process Test Tanks and Waste Feed Surge Tank; Container and Labpack Unloading/Processing; RCRA Stabilization Treatment Unit Enclosure; Container Processing in Filter Room Enclosure; Containerized Waste Storage Building and Analytical Laboratory. These operations are vented to a common duct with additional pre-filters / HEPA filter and activated carbon adsorber controls. All except the Containerized Waste Storage Building and Analytical Laboratory use Exhaust Stack ST-01
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Conditions E4-1 through E4-4 apply to source 73-0137-06

- E4-1.** VOC emitted from this source shall not exceed 15.0 tons during any period of twelve consecutive months. A construction permit or Title V permit minor modification must be obtained prior to any modification that would require an increase in the allowable VOC emissions.

TAPCR 1200-03-07-.07(2), Condition 33 of Construction Permit 961535

Compliance Method: Compliance with this condition is based upon the following: (1) A review of the historical VOC emissions data submitted for this source with the construction permit application dated November 29, 2007; (2) For waste stabilization, the permittee limits VOC/ HAP content of waste to < 500 ppmw and the stabilization materials/ chemicals do not contain VOCs. The permittee shall submit data concerning potential VOC emissions from waste stabilization in the semiannual reports required by condition E2-1(a); and (3) For mixed waste processing, fuel blending, and storage of waste in tanks, VOC emissions are controlled by tank nitrogen blanketing, conservation vents, and activated carbon adsorption. The permittee shall maintain these controls in accordance with the current facility Operations and Maintenance Plan.

- E4-2.** The only non-exempt storage tanks authorized by this permit are listed in **Table 2**.

Table 2: Non-Exempt Storage Tanks		
Tank I. D.	Contents	Capacity (gallons)
15-T-910	Boiler Fuel (Blended Waste)	7,014
15-T-920	Boiler Fuel (Blended Waste)	7,014
15-T-930	Boiler Fuel (Blended Waste)	8,665
15-T-940	Boiler Fuel (Blended Waste)	7,014
15-T-950	Boiler Fuel (Blended Waste)	7,014
38-T-601	Boiler Fuel (Blended Waste)	487
12-T-501	Boiler Fuel (Blended Waste)	565
12-T-502	Boiler Fuel (Blended Waste)	565
16-T-501	Boiler Fuel (Blended Waste)	565

TAPCR 1200-03-06-.03(2), Condition 34 of Construction Permit 961535

- E4-3.** Visible emissions from the RCRA Stabilization Enclosure shall not exhibit greater than twenty percent opacity except for one six-minute period per one hour or more than twenty four minutes in any twenty four hours. Visible emissions from the RCRA Stabilization Enclosure shall be determined by EPA Method 9, as published in 40 CFR 60, Appendix A (six-minute average). Consistent with the requirements of Chapters 1200-03-05 and 1200-03-20 of the Tennessee Air Pollution Control Comprehensive Rules and Regulations, due allowance shall be made for excess visible emissions that are necessary or unavoidable due to routine startup and shutdown conditions.

TAPCR 1200-03-05-.01(1) and 1200-03-05-.03(6), Condition 35 of Construction Permit 961535

Compliance Method: Compliance with this condition shall be determined by the procedures of the Division's Opacity Matrix dated September 11, 2013 (Attachment 1). The stabilization enclosure ventilation exhaust gas is combined with the facility ventilation air flow and exhausted via facility stack ST-1. Opacity evaluation of stack ST-1 shall meet the compliance requirements of this condition.

- E4-4.** Particulate matter emitted from this source shall not exceed 0.02 grains per dry standard cubic foot of exhaust gases (4.11 pounds per hour).

TAPCR 1200-03-07-.04(1)

Compliance Method: The potential to emit particulate matter from this source is less than five tons per year. In accordance with TAPCR 1200-03-09-.04(5)(c)3. and by annual certification of compliance, the permittee shall be considered to meet the monitoring and related record keeping and reporting requirements of TAPCR 1200-03-09-.02(11)(e)1.(iii), and the compliance requirements of TAPCR 1200-03-09-.02(11)(e)3.(i). The permittee shall submit annually compliance certification for particulate matter from this source per condition E2-1(b).

73-0137-07	Source Description	Two compression ignition emergency engines, 537 horse power combined output [380 hp for Cummins LTA-10G1 and 157 hp for JU4H-UFADY8], and one spark ignition emergency generator engine [128 hp Generac Power Systems], are subject to permit condition D14. The engines are subject MACT Subpart ZZZZ, and JU4H-UFADY8 is also subject to NSPS Subpart IIII. The Generac engine is also subject to 40 CFR 60 Subpart JJJJ. The engines are classified as insignificant emission units per TAPCR 1200-03-09-.04(5)(a)4(i), 1200-03-09-.04(5)(c)1, and 0400-30-38-.01(2).
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END OF draft PERMIT NUMBER 582014

ATTACHMENT 1

**OPACITY MATRIX DECISION TREE for
VISIBLE EMISSION EVALUATION METHOD 9**

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

Notes:

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

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

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

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

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

Typical Pollutants

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

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

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

Reader Error

EPA Method 9, Non-NSPS or NESHAPS stipulated opacity standards:

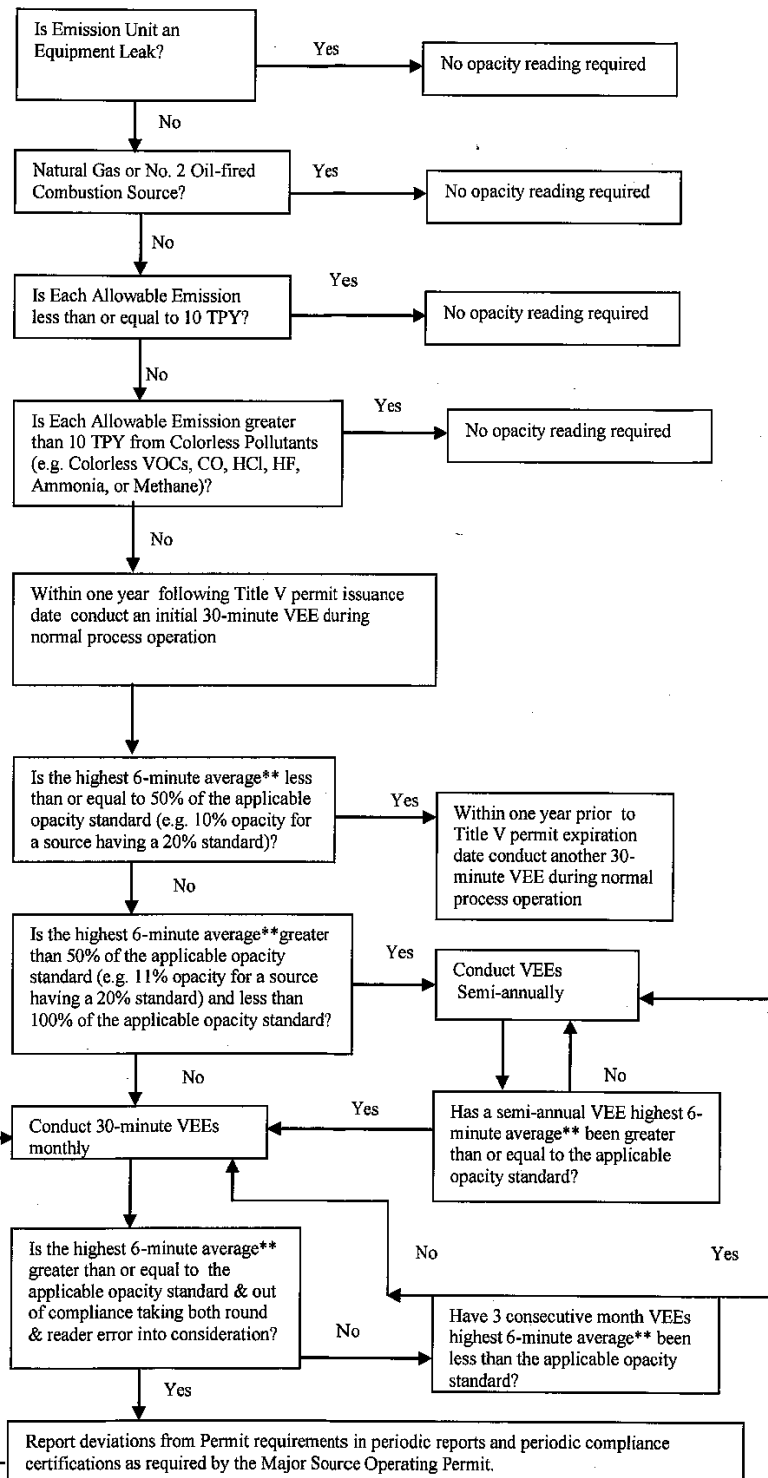
The TAPCD guidance is to declare non-compliance when the highest six-minute average** exceeds the standard plus 6.8% opacity (e.g. 26.8% for a 20% standard).

EPA Method 9, NSPS or NESHAPS stipulate opacity standards:

EPA guidance is to allow only engineering round. No allowance for reader error is given.

*Not applicable to Asbestos manufacturing subject to 40 CFR 61.142

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



Dated June 18, 1996
Amended September 11, 2013

ATTACHMENT 2

T5 Fee Selection Form



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

APC 36

TITLE V FEE SELECTION

Type or print and submit to the email address above.			
FACILITY INFORMATION			
1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)]			
2. Site name (if different from legal name)			
3. Site address (St./Rd./Hwy.)			County name
City			Zip code
4. Emission source reference number		5. Title V permit number	
FEE SELECTION			
This fee selection is effective beginning January 1, _____. When approved, this selection will be effective until a new Fee Selection form is submitted. Fee Selection forms must be submitted on or before December 31 of the annual accounting period.			
6. Payment Schedule (choose one):			
Calendar Year Basis (January 1 – December 31) ☐		Fiscal Year Basis (July 1 – June 30) ☐	
7. Payment Basis (choose one):			
Actual Emissions Basis ☐ Allowable Emissions Basis ☐ Combination of Actual and Allowable Emissions Basis ☐			
8. If Payment Basis is "Actual Emissions" or "Combination of Actual and Allowable Emissions", complete the following table for each permitted source and each pollutant for which fees are due for that source. See instructions for further details.			
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.

APC 36

[illegible]

ATTACHMENT 3

MACT 40 CFR PART 63.1207(d)

(d) *Frequency of testing.* Except as otherwise specified in [paragraph \(d\)\(4\)](#) of this section, you must conduct testing periodically as prescribed in [paragraphs \(d\)\(1\)](#) through [\(3\)](#) of this section. The date of commencement of the initial comprehensive performance test is the basis for establishing the deadline to commence the initial confirmatory performance test and the next comprehensive performance test. You may conduct performance testing at any time prior to the required date. The deadline for commencing subsequent confirmatory and comprehensive performance testing is based on the date of commencement of the previous comprehensive performance test. Unless the Administrator grants a time extension under [paragraph \(i\)](#) of this section, you must conduct testing as follows:

(1) *Comprehensive performance testing.* Except as otherwise specified in [paragraph \(d\)\(4\)](#) of this section, you must commence testing no later than 61 months after the date of commencing the previous comprehensive performance test used to show compliance with [§ 63.1216](#), [§ 63.1217](#), [§ 63.1218](#), [§ 63.1219](#), [§ 63.1220](#), or [§ 63.1221](#). If you submit data in lieu of the initial performance test, you must commence the subsequent comprehensive performance test within 61 months of commencing the test used to provide the data in lieu of the initial performance test.

(2) *Confirmatory performance testing.* Except as otherwise specified in [paragraph \(d\)\(4\)](#) of this section, you must commence confirmatory performance testing no later than 31 months after the date of commencing the previous comprehensive performance test used to show compliance with [§ 63.1217](#), [§ 63.1219](#), [§ 63.1220](#), or [§ 63.1221](#). If you submit data in lieu of the initial performance test, you must commence the initial confirmatory performance test within 31 months of the date six months after the compliance date. To ensure that the confirmatory test is conducted approximately midway between comprehensive performance tests, the Administrator will not approve a test plan that schedules testing within 18 months of commencing the previous comprehensive performance test.

(3) *Duration of testing.* You must complete performance testing within 60 days after the date of commencement, unless the Administrator determines that a time extension is warranted based on your documentation in writing of factors beyond your control that prevent you from meeting the 60-day deadline.

(4) *Applicable testing requirements under the interim standards —*

(i) *Waiver of periodic comprehensive performance tests.* Except as provided by [paragraph \(c\)\(2\)](#) of this section, you must conduct only an initial comprehensive performance test under the interim standards ([§§ 63.1203](#) through [63.1205](#)); all subsequent comprehensive performance testing requirements are waived under the interim standards. The provisions in the introductory text to paragraph (d) and in [paragraph \(d\)\(1\)](#) of this section apply only to tests used to demonstrate compliance with the standards under [§§ 63.1219](#) through [63.1221](#).

(ii) *Waiver of confirmatory performance tests.* You are not required to conduct a confirmatory test under the interim standards ([§§ 63.1203](#) through [63.1205](#)). The confirmatory testing requirements in the introductory text to paragraph (d) and in [paragraph \(d\)\(2\)](#) of this section apply only after you have demonstrated compliance with the standards under [§§ 63.1219](#) through [63.1221](#).

ATTACHMENT 4

**MACT 40 CFR PART 63 SUBPART EEE
NOTIFICATION OF COMPLIANCE
DATED OCTOBER 12, 2020**

DSSI Waste Fuel Boiler System**HWC MACT****Notification of Compliance****Introduction**

Pursuant to the HWC MACT regulations at 40 CFR §63.1210(d) and §63.1207(j), the following information and certification shall serve as the DSSI Waste Fuel Boiler System (WFBS) Notification of Compliance (NOC). This NOC reflects a consolidated summary of the operating parameter and feed limits (OPLs) for the WFBS that were established by a comprehensive performance test (CPT) and comparison of the emission standards with the test emissions. Pursuant to §63.1210(d)(2), the OPLs noted herein supersede all previously documented limits.

Applicable Emission Standards

The applicable emission standards for the WFBS are defined at 40 CFR §63.1217 for existing liquid fuel-fired boiler sources. Attachment 1, WFBS Emissions, provides a summary of the source standards with the CPT demonstrated emissions results.

Operating Parameter Limits

The following information summarizes the WFBS operating parameter limits (OPLs) as determined from the July 2020 CPT, except as noted.

WFBS OPERATING PARAMETER	PARAMETER LIMIT
Maximum pumpable/total waste fuel feed rate (lbs/min; 1-hour rolling average)	18.36
Minimum combustion zone/chamber temperature (°F; 1-hour rolling average)	2,066 ¹
Minimum Boiler off-gas flow oxygen concentration (%;10-second delay)	3.8 ²
Combustion System Leaks	N/A ³
Maximum Hazardous Waste Residence Time (HWRT) (sec.)	< 1.5 ⁴
POHCs Destruction and Removal Efficiency (DRE) (%)	>99.99
Maximum carbon monoxide emissions (ppmvd; 1-hour rolling avg. corrected to 7% O ₂)	<100 ⁵
Maximum total thermal input (MM Btu/hr, 1-hour rolling average)	12.812

¹ 2,066 °F value retained from 2015 joint TSCA & HWC MACT CPT: **PCB DRE** of >99.9999% and 40 CFR 63.1209(k)(2) dioxins and furans emissions compliance and TSCA CO emissions compliance.

² Minimum oxygen concentration limit retained from 2015 joint TSCA & HWC MACT CPT for DRE metric and §63.1209(j)(4) *operation of waste firing system*.

³ Potential fugitive emissions from the boiler are controlled by keeping the combustion zone sealed pursuant to §63.1206(c)(5).

⁴ Maximum HWRT determined by calculation and established within initial DOC. Shown here pursuant to §63.1206(b)(11)

⁵ Hydrocarbons <10 ppmvd_{corr. 7% O₂} previously demonstrated in accordance with §63.1206(b)(6)(ii)(A).

WFBS OPERATING PARAMETER	PARAMETER LIMIT
Maximum off-gas flow rate (acfm, 1-hour rolling average)	6,386.
Maximum off-gas baghouse inlet temperature (°F, 1-hour rolling average)	243.
Minimum scrubber recirculation liquid/off-gas flow rate ratio (gpm/acfm x 100, 1-hour rolling average)	1.50
Minimum scrubber liquid blow-down flow rate (gpm, 1-hour rolling average)	0.41
Minimum scrubber recirculation liquid pH (pH, 1-hour rolling average)	7.8
Minimum scrubber recirculation liquid supply pressure (psig, 1-hour rolling average)	8.0 ⁶
Minimum scrubber off-gas differential pressure (inches W.G., 1-hour rolling average)	0.3 ⁶
Minimum PAC feed rate (lbs/hour, 1-hour rolling average)	3.3
Maximum Ash Feedrate - <i>Waived</i> Off-gas PMDS alarm signal (mg/m ³ , 1-hour rolling average)	0.9 ⁷
Maximum waste fuel total chlorine/chloride feed rate (1-hour rolling average): (grams/hr)[Waste Fuel HHV < 10,000 Btu/lb] (lbs/MM Btu waste feed){Waste Fuel HHV > 10,000 Btu/lb}	[9,659.] {1.896}
Maximum waste fuel cadmium + lead combined feed rate (1-hour rolling average): (grams/hr)[Waste Fuel HHV < 10,000 Btu/lb] (lbs/MM Btu waste feed){Waste Fuel HHV > 10,000 Btu/lb}	[780.4] ⁸ {7.91E-02}
Maximum waste fuel chromium + arsenic + beryllium feed rate (1-hour rolling average): (grams/hr)[Waste Fuel HHV < 10,000 Btu/lb] (lbs/MM Btu waste feed){Waste Fuel HHV > 10,000 Btu/lb}	[192.7.] ⁸ {1.25E-02}
Maximum waste fuel mercury feed rate (grams/hr, 1-hour rolling average)	85. ⁸

⁶ Minimum scrubber recirculation liquid supply pressure and off-gas differential pressure as established within initial DOC.

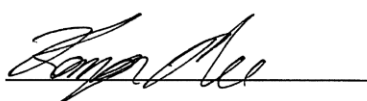
⁷ Off-gas PMDS alarm level is established from sensing location up-stream of final PM filters with compliant PM emissions by CPT results. Alarm is applied to down-stream sensing location. See §63.1206(c)(9)(i)(D)(1) and (c)(9)(iii)(A) and (c)(9)(iv)(A). 1-hour rolling average used in lieu of 6-hour rolling average for operational convenience. Value is based on 2015 CPT NOC.

⁸ Maximum metals feed rates determined by extrapolation of CPT demonstrated rates. See §63.1209(l)(1)(v) and (n)(2)(vii). 1-hour rolling average used in lieu of 12-hour rolling average for operational convenience.

COMPLIANCE STATEMENT

I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, to the best of my knowledge, the information is, true, accurate, and complete, and the DSSI WFBS is in compliance with the applicable standards and requirements of 40 CFR Part 63, Subpart EEE as set forth in this document.

I also certify that required continuous emission monitoring systems and compliance monitoring systems are installed, calibrated, and are to be continuously operating in compliance with the applicable requirements of Subpart EEE during affected facility operations.

Signature: 

Date: 10.15.20

Printed Name: Kenyon Mee

Title: V.P. & General Manager

Company: Diversified Scientific Services, Inc.
Perma-Fix Environmental Services

Attachment 1
WFBS Emissions

Parameter	40 CFR §63.1217 Standard	June 2009 CPT Result ⁹	Nov 2012 Confirmatory Test Result ¹⁰	June 2015 CPT/TSCA Result ¹¹	Nov 2017 Confirmatory Test Result ¹²	June 2020 CPT Result ¹³
Particulate Matter (PM)	80.0 mg/dscm corrected to 7% O ₂	0.93 mg/dscm corrected to 7% O ₂	N/A	0.042 mg/dscm corrected to 7% O ₂	N/A	4.77 mg/dscm corrected to 7% O ₂
Total Chlorine (hydrogen chloride + chlorine gas)	31 ppmvd ¹⁴ corrected to 7% O ₂ 5.10E-02 lbs/MM Btu waste feed	< 0.27 ppmvd corrected to 7% O ₂	N/A	< 0.13 ppmvd corrected to 7% O ₂	N/A	0.25 ppmvd corrected to 7% O ₂ 3.67E-04 lb/MM Btu waste feed
Mercury	130 µg/dscm ¹⁴ corrected to 7% O ₂	34.9 µg/dscm corrected to 7% O ₂	N/A	0.6 µg/dscm corrected to 7% O ₂	N/A	<0.80 µg/dscm corrected to 7% O ₂
Chromium + arsenic + beryllium (as low volatile metals)	370 µg/dscm ¹⁵ corrected to 7% O ₂ 1.30E-04 lbs/MM Btu waste feed	3.3 µg/dscm corrected to 7% O ₂	N/A	1.3 µg/dscm corrected to 7% O ₂ 1.75E-06 lb/MM Btu waste feed	N/A	<23.0 µg/dscm corrected to 7% O ₂ 1.75E-06 lb/MM Btu waste feed
Cadmium + Lead (as semivolatile metals)	150 µg/dscm ¹⁵ corrected to 7% O ₂	2.8 µg/dscm corrected to 7% O ₂	N/A	1.0 µg/dscm corrected to 7% O ₂ 1.33E-06 lb/MM Btu waste feed	N/A	<1.0 µg/dscm corrected to 7% O ₂ 1.33E-06 lb/MM Btu waste feed
Carbon Monoxide (CO)	100 ppmvd hourly rolling average corrected to 7% O ₂	0.10 ppmvd HRA corrected to 7% O ₂	N/A	1.1 ppmvd HRA corrected to 7% O ₂	N/A	0.5 ppmvd HRA corrected to 7% O ₂
Dioxins/Furans	0.40 ng TEQ/dscm, corrected to 7% O ₂	0.048 ng TEQ/dscm, corrected to 7% O ₂	0.0013 ng TEQ/dscm, corrected to 7% O ₂	0.0013 ng TEQ/dscm, corrected to 7% O ₂	0.00018 ng TEQ/dscm, corrected to 7% O ₂	0.021 ng TEQ/dscm, corrected to 7% O ₂

⁹ Emission results from Test Condition 1; average of Runs 2, 3 & 4, unless otherwise noted.

¹⁰ Emission result from **Confirmatory** Performance Test conducted November 7, 2012; average of three test Runs.

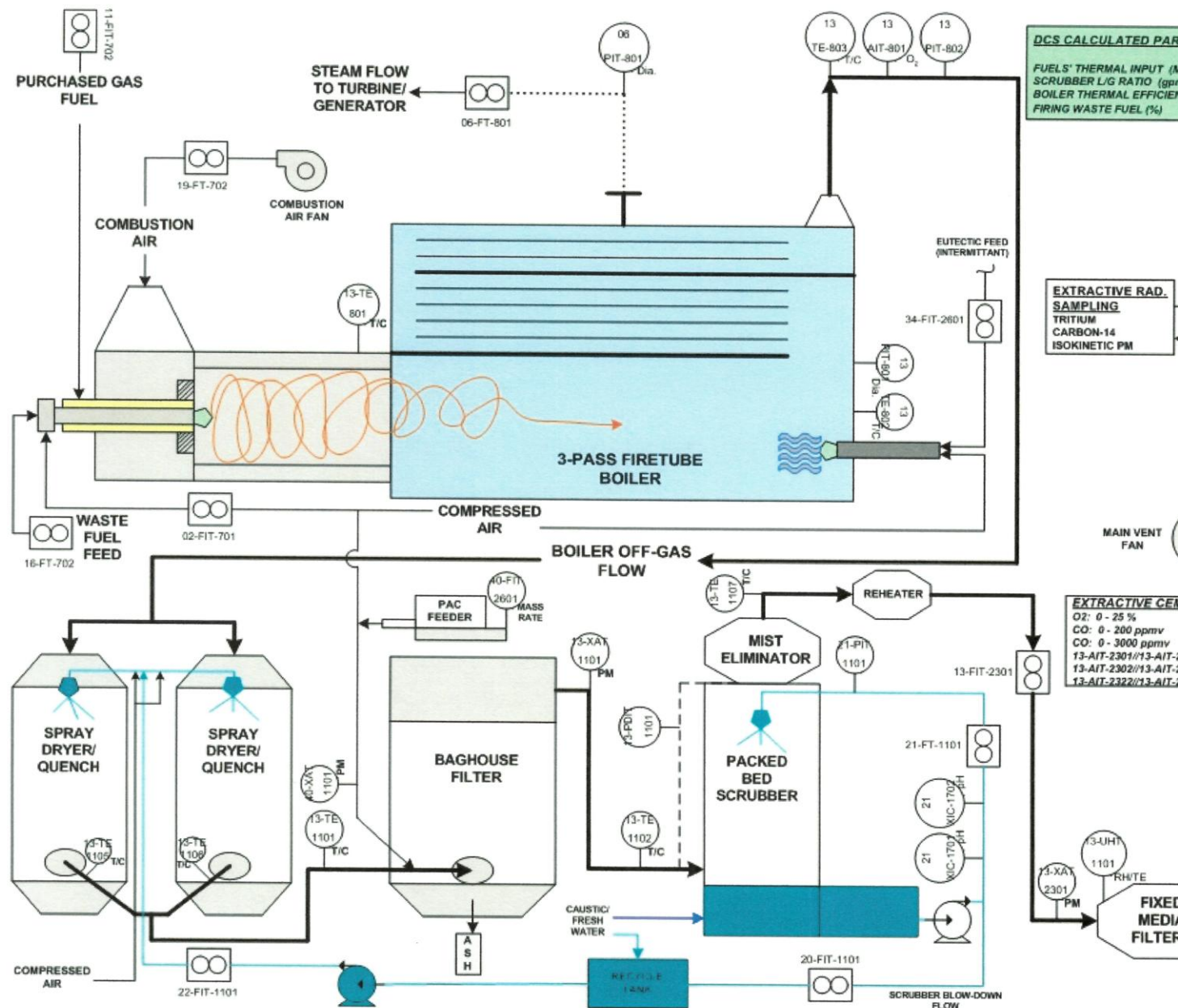
¹¹ Emission results from Comprehensive Performance/TSCA Test conducted June 24-25, 2015 average of Runs 2, 3 & 4, unless otherwise noted.

¹² Emission result from **Confirmatory** Performance Test conducted November 8, 2017; average of three test Runs.

¹³ Emission results from Comprehensive Performance Test conducted July 23-24, 2020 average of Runs 2, 3 & 4, unless otherwise noted.

¹⁴ Mercury emission standard for the DSSI boiler system is the incinerator emission standard at §63.1219(a)(2).

¹⁵ Off gas emissions concentration-based standards for waste feeds with an energy content (i.e. higher heating value (HHV)) < 10,000 Btu/lb. Waste feed thermal input-based standards apply for waste feeds with an energy content > 10,000 Btu/lb. All CPT waste fuel feeds were <10,000 Btu/lb and therefore the concentration-based standards apply.



ATTACHMENT 5**MACT 40 CFR PART 63 SUBPART EEE****General Provisions for 40 CFR 63**

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

General Provisions Citation 40 CFR	Subject of Citation	Applies to Subpart	Explanation
§63.1	Applicability	Yes ☒ No ☐	
§63.2	Definitions	Yes ☒ No ☐	Additional terms defined in § 63.1201 .
§63.3	Units and Abbreviations	Yes ☒ No ☐	
§63.4	Prohibited Activities and Circumvention	Yes ☒ No ☐	
§63.5	Preconstruction Review and Notification Requirements	Yes ☐ No ☒	
§ 63.6(a), (b)(1)–(b)(5), (b)(7), (c), (f)(2)–(3), (g), (i), (j)	Compliance with Standards and Maintenance Requirements	Yes ☒ No ☐	
§ 63.6(e)(1)(i)	General Duty to minimize emissions	Yes ☒ No ☐	
§ 63.6(e)(1)(ii)	Requirement to correct malfunctions ASAP	Yes ☒ No ☐	
§ 63.6(e)(3)	SSM Plan	Yes ☒ No ☐	
§ 63.6(f)	Compliance with nonopacity emission standards	Yes ☒ No ☐	Except that the performance test requirements of Sec. 63.1207 apply instead of § 63.6(f)(2)(iii)(B) .
§ 63.6(g)	Use of an alternative nonopacity emission standard.	Yes ☒ No ☐	
§ 63.6(h)	Compliance with opacity and visible emission standards	Yes ☒ No ☐	
§ 63.6(i)	Exemption from compliance with emission standards	Yes ☒ No ☐	Section 63.1213 specifies that the compliance date may also be extended for inability to install necessary emission control equipment by the compliance date because of implementation of pollution prevention or waste minimization controls.

§ 63.7(a)	Performance Testing Requirements Applicability and performance test dates.	Yes ☒ No ☐	Except § 63.1207(e)(3) allows you to petition the Administrator under § 63.7(h) to provide an extension of time to conduct a performance test, and § 63.1207(d) describes testing frequency.
§ 63.7(b)	Performance Testing Requirements Notification of performance test.	Yes ☒ No ☐	Except § 63.1207(e) requires you to submit the site-specific test plan for approval at least one year before the comprehensive performance test is scheduled to begin.
§ 63.7(c)	Performance Testing Requirements Quality assurance program.	Yes ☒ No ☐	Except § 63.1207(e) requires you to submit the site-specific test plan (including the quality assurance provisions under § 63.7(c)) for approval at least one year before the comprehensive performance test is scheduled to begin.
§ 63.7(e)	Performance Testing Requirements Conduct of performance tests.	Yes ☒ No ☐	Except § 63.1207 prescribes operations during performance testing and § 63.1209 specifies operating limits that will be established during performance testing (such that testing is likely to be representative of the extreme range of normal performance).
§ 63.7(g)	Performance Testing Requirements Data analysis, recordkeeping, and reporting.	Yes ☒ No ☐	Except § 63.1207(j) requiring that you submit the results of the performance test (and the notification of compliance) within 90 days of completing the test, unless the Administrator grants a time extension, applies instead of § 63.7(g)(1).
§ 63.7(h)	Performance Testing Requirements Waiver of performance tests.	Yes ☒ No ☐	Except § 63.1207(c)(2) allows data in lieu of the initial comprehensive performance test, and § 63.1207(m) provides a waiver of certain performance tests. You must submit requests for these waivers with the site-specific test plan.
§ 63.8(a), (b)	Applicability and Conduct of Monitoring Requirements	Yes ☒ No ☐	
§ 63.8(c)	Operation and maintenance of continuous monitoring systems.	Yes ☒ No ☐	Except: (1) § 63.1211(c) that requires you to install, calibrate, and operate CMS by the compliance date applies instead of § 63.8(c)(3); and (2) the performance specifications for CO, HC, and O ₂ CEMS in subpart B, of this chapter requiring that the detectors measure the sample concentration at least once every 15 seconds for calculating an average emission level once

			every 60 seconds apply instead of § 63.8(c)(4)(ii).
§ 63.8(d)	Written procedures for CMS	Yes ☒ No ☐	
§ 63.8(e)	Performance evaluation of continuous monitoring systems	Yes ☒ No ☐	Except § 63.1207(e) requiring you to submit the site-specific comprehensive performance test plan and the CMS performance evaluation test plan for approval at least one year prior to the planned test date applies instead of §§ 63.8(e)(2) and (3)(iii).
§ 63.8(f), (g)	Use of an alternative monitoring method and Reduction of monitoring data	Yes ☒ No ☐	
§63.9(a), (c), (d)	Notification Requirements	Yes ☒ No ☐	
§63.9(b)	Initial notifications	Yes ☒ No ☐	<i>Note:</i> Section 63.9(b)(1)(ii) pertains to notification requirements for area sources that become a major source, and § 63.9(b)(2)(v) requires a major source determination. Although area sources are subject to all provisions of this subpart (Subpart EEE), these sections nonetheless apply because the major source determination may affect the applicability of part 63 standards or title V permit requirements to other sources (i.e., other than a hazardous waste combustor) of hazardous air pollutants at the facility.
§63.9(e)	Notification of performance test.	Yes ☒ No ☐	Except § 63.1207(e) which requires you to submit the comprehensive performance test plan for approval one year prior to the planned performance test date applies instead of § 63.9(e).
§63.9(f)	Notification of opacity and visible emission observations.	Yes ☒ No ☐	Section 63.9(f) applies if you are allowed under § 63.1209(a)(1)(v) to use visible determination of opacity for compliance in lieu of a COMS.
§63.9(g)	<i>Additional notification requirements for sources with continuous monitoring systems.</i>	Yes ☒ No ☐	Except § 63.9(g)(2) pertaining to COMS does not apply.
§63.9(h)	Notification of compliance status.	Yes ☒ No ☐	Except § 63.1207(j) requiring you to submit the notification of compliance within 90 days of completing a performance test unless the Administrator grants a time extension applies instead of § 63.9(h)(2)(iii).

			Note: Even though area sources are subject to this subpart, the major source determination required by § 63.9(h)(2)(i)(E) is applicable to hazardous waste combustors for the reasons discussed above.
§63.9(k)	Electronic submission of notifications or reports	Yes ☒ No ☐	Only as specified in § 63.9(j).
§63.9(i) and (j)	Adjustment to time periods or postmark deadlines for submittal and review of required communications and Change in information already provided	Yes ☒ No ☐	
§ 63.10	Recordkeeping and Reporting Requirements	Yes ☒ No ☐	Except reports of performance test results required under § 63.10(d)(2) may be submitted up to 90 days after completion of the test.
§63.11	Control Device Requirements	Yes ☐ No ☒	
§63.12	State Authorities and Delegations	Yes ☒ No ☐	
§63.13	Addresses	Yes ☒ No ☐	
§63.14	Incorporations by Reference	Yes ☒ No ☐	
§63.15	Availability of Information and Confidentiality	Yes ☒ No ☐	

ATTACHMENT 6**General Provisions for 40 CFR Part 61, Subpart C Beryllium**

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

You are required to comply with the following General Provisions of the federal National Emission Standards for Hazardous Air Pollutants (NESHAP). The permittee is subject to the general provisions unless otherwise noted:

General Provisions Citation 40 CFR	Subject of Citation	Applies to Subpart	Explanation
61.01	Lists of Pollutants and Applicability of Part 61	Yes	Subject to the general provisions unless otherwise noted.
61.02	Definitions	Yes	Subject to the general provisions unless otherwise noted.
61.03	Units and Abbreviations	Yes	Subject to the general provisions unless otherwise noted.
61.04	Address	No	Subject to the general provisions unless otherwise noted.
61.05	Prohibited Activities	Yes	Subject to the general provisions unless otherwise noted.
61.06	Determination of Construction or Modification	No	Subject to the general provisions unless otherwise noted.
61.08	Approval of Construction or Modification	Yes	Subject to the general provisions unless otherwise noted.
61.09	Notification of Startup	Yes	Subject to the general provisions unless otherwise noted.
61.10	Source Reporting and Waiver Request	Yes	Subject to the general provisions unless otherwise noted.
61.11	Waiver of Compliance	Yes	Subject to the general provisions unless otherwise noted.
61.12	Compliance with Standards and Maintenance Requirements	Yes	Subject to the general provisions unless otherwise noted.

61.13	Emission Tests and Waiver of Emission Tests	Yes	Subject to the general provisions unless otherwise noted.
61.14	Monitoring Requirements	No	Subject to the general provisions unless otherwise noted.
61.15	Modification	Yes	Subject to the general provisions unless otherwise noted.
61.16	Availability of Information	Yes	Subject to the general provisions unless otherwise noted.
61.17	State Authority	Yes	Subject to the general provisions unless otherwise noted.
61.18	Incorporations by Reference	Yes	Subject to the general provisions unless otherwise noted.
61.19	Circumvention	Yes	Subject to the general provisions unless otherwise noted.

TAPCR

1200-03-09-.03(8)



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Facility Name: DIVERSIFIED SCIENTIFIC SERVICES, INC.
Permit Number: 582014
Permit Writer: DSWr

Facility ID Number: 73-0137
Date Application Received: December 12, 2023
Date Application Completed: December 12, 2023

Draft proposed statement of basis

FACILITY CATEGORY

This facility is not a major source of air emissions, but DIVERSIFIED SCIENTIFIC SERVICES, INC. (DSSI) is subject to the requirement to apply for and obtain a title V permit in all States due to 40 CFR 63 Subpart EEE applicability. Facility-wide Potential to Emit (PTE) regulated air pollutants is below PSD and Title V major source thresholds. A title V permitting authority may choose to exclude area sources from the requirement to apply for and obtain a title V permit on a source-by-source basis unless the area source is otherwise required by law to obtain a title V permit.

FACILITY DESCRIPTION

DSSI handles Resource Conservation and Recovery Act (RCRA) regulated mixed and low-level radioactive waste at a storage and treatment facility located at **657 Gallaher Road** in Kingston, Tennessee, in Roane County. The primary facility activities include waste storage and treatment within containers and tanks, and the combustion of blended liquid waste as fuel in an industrial boiler. Diverse low-level radioactive and mixed (i.e., hazardous and radioactive) wastes are accepted from government (e.g., United States Department of Energy) and commercial generators.

PROJECT DESCRIPTION

DSSI is requesting a Title V Operating Permit. This existing facility is comprised of emission units that have been grouped into two defined sources (01 and 06). The waste fuel boiler system (WFBS) is emission source 73-0137-01, and rated at 15 MMBtu/hr. The waste loading/unloading activities, storage in tanks, and all permitted treatment units in the process building are combined into emission source 73-0137-06. Controls for source 01 consists of spray dryer/quench, activated carbon injection, baghouse, wet scrubber and HEPA filters, and most of the emission factors used in this permit are from source testing. Controls for source 06 consists of: nitrogen gas blanket w/ conservation vents, pre-filters/HEPA filters, and carbon adsorbers. Emission sources at DSSI have the potential to emit particulate matter (PM), volatile organic compounds (VOC), sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), and organic/inorganic hazardous air pollutants (HAPs). Emissions are generated from the combustion of blended waste fuel and gas fuel in the boiler, losses from tanks, waste handling and treatment activities, and product chemicals handling. The sources are not being modified or replaced.

This will be the fourth T5 operating permit for this facility. The first permit issued to DSSI was conditional major operating permit [453191](#) issued on January 18, 2005. The previous T5 operating permit, **574059**, was



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modified twice, on October 12, 2021, and February 26, 2020, to update the Notification of Compliance (NOC), and change the source testing language on the permit.

COMPLIANCE STATUS

This facility is located in an attainment area for all criteria pollutants according to the NAAQS.

The date of the last inspection by the Knoxville Field office occurred on December 30, 2025. An NOV was not issued from this inspection.

COLLOCATION DETERMINATION

Collocation is not applicable to this facility. DSSI is the only air permitted facility at this location.

PERMIT REGISTRY

Pursuant to Tennessee Code Annotated (TCA) § 4-29-120, a permit registry notification for two individuals is required for air permits in this county.

PUBLIC NOTICE

This Title V Permit Renewal will undergo a 30-day public notice period and a 45-day EPA comment period in accordance with TAPCR 1200-03-09-.02(11). The notice was published on the TDEC website on **<date>**. The affected states [including KY, NC, EPA, Knox County, Chattanooga-Hamilton County, and the Eastern Band of Cherokee were notified on **<date>**.

ADDITIONAL PUBLIC PARTICIPATION

There were no <public/epa> comments for this permit.

There were comments on this permit as follows: (include any comments from the <public/EPA>)



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A public hearing was held for this permit on <date>.

A public meeting was held for this permit on <date>.

Table 1A: FACILITY EMISSION SOURCES

Source Number	Source Description	Permitted	Exempt / Insignificant	PBR
01	Waste Fuel Boiler System consisting of RCRA Boiler with spray dryer, scrubber, fabric filter, and HEPA filter controls	x		
06	Raw Material Storage, Treatment, and Loading / Unloading	x		
07	Two (2) Compression internal combustion engines rated at 537 hp combined;		x	
	Auxiliary Boiler [4 MMBtu/hr]; One spark ignition emergency engine Two atmospheric pressure diesel fuel ("volatile organic liquid") storage tanks 250 gallons each; Two atmospheric pressure diesel fuel storage tanks, 1,000 gallons each; Analytical laboratory exhausts (hoods and analytical equipment) located in the Process Building or North Container Storage Building; Room ventilators; Vehicular traffic; Facility cooling towers and boiler water systems; Non-contact process steam vents and air compressor condensate evaporator vents; Portable welding equipment; Outdoor kerosene heaters; Compressed gas air dryers and distribution; Maintenance activities; and Natural gas-fired comfort space heaters		x	



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Table 1B: CHANGES SINCE LAST PERMIT ISSUANCE

Description	Date
The NOC was updated to address issues related to neutralization of aqueous alkali hydroxides. Minor Modification	2-26-20
Permit testing language was updated by Admin Amendment	10-12-21
DSSI added a third emergency engine [Generac Power Systems]. This one is spark ignition, and insignificant. I have updated the description language associated with Source 07.	2021
State level Beryllium Standards were repealed, but the Federal regulations [see 40 CFR 61 C] still apply, and these are exactly the same. State regulations were removed when permit was renewed. Permit has limit of 0.004 TPY	12-28-22; Date of permit issuance
Emergency Fire Water Pump RICE installed. Source has insignificant emissions.	June 2023
Laboratory air emissions control system consisting of activated carbon adsorber and pre-filters/HEPA filters were added to the Containerized Waste Storage Building and Analytical Laboratory. Facility emissions did not change.	12-12-23
40 CFR 63 EEE was updated	Mar. 29, 2023 June 3, 2026
Permittee commented after reviewing the draft with updates to F1-2 and E3-7, which have to do with beryllium testing, and a clarification related to annual CO emissions. The amount of emissions did not change.	June 29, 2026
Permit condition E4-1 regulation was changed from chapter 6 to chapter 7 because waste handling and storage [source 06] is not a non-process source.	Date of permit issuance
This facility is not a primary aluminum reduction plant, but HF was limited according to this regulation [1200-03-03.(1)(d)] that referred to primary aluminum reduction plants operating before 1973. This limitation was part of permit condition E1 on the previous permit. I talked to Travis about it [5-12-26] and he said to leave the limit but change the regulation to TAPCR 1200-03-03-.03(1)(b).	Date of permit issuance



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Table 2: FACILITY WIDE EMISSION LIMIT

Pollutant	TPY
Insignificant HAPs	0.2

Notes:

There is no facility wide HAPs limit, but, when all individual HAPs are added up, it's about 6.5 TPY, far short of major source thresholds.

There are no other facility wide limits. Most of the HAP limits are in section E3, which is source 01.

Table 3A: FACILITY WIDE EMISSIONS –Prior to construction/modification

FACILITY WIDE EMISSIONS			
Pollutant	Actual/Controlled Emissions	Uncontrolled Emissions	Potential to Emit (PTE)
	TPY	TPY	TPY
Hydrofluoric Acid ²	2.9	2.9	2.9

Notes:

2. See note under table 3B



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Table 3B: FACILITY WIDE EMISSIONS –After construction/modification

FACILITY WIDE EMISSIONS			
Pollutant	Actual/Controlled Emissions	Uncontrolled Emissions	Potential to Emit (PTE)
	TPY	TPY	TPY
Hydrofluoric Acid ¹ [HF]	2.9	2.9	2.9

Notes:

1. The HF limit was re-evaluated because this facility is not a primary aluminum reduction plant, and that was apparently the regulation on the previous permit for regulation of HF. The referenced Part 63 regulation referred to record keeping. This limit was in the original construction permit, but the regulation referred to primary aluminum reduction, which this facility is not. I spoke to Travis about it, and he said to keep the limit, but change the regulation, which I did [E3-4].

REGULATORY APPLICABILITY REVIEW

Regulations	Comments/ Requirements (Monitoring/Recordkeeping/Reporting/Testing)
Chapter 3 TAPCR 1200-03-03-.03(1)(b)	Applicable: See Permit condition E3-4. There was some confusion because the previous permit, and the original construction permit, had a reference to primary aluminum smelting, in chapter 3, and that was the basis of the HF limit. I spoke to our Environmental Fellow, Travis Blake, and he said to keep the limit, but change the regulation to this one on the left. The permit originally had 1200-03-03-.03(d).



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REGULATORY APPLICABILITY REVIEW

Regulations	Comments/ Requirements (Monitoring/Recordkeeping/Reporting/Testing)
<u>Chapter 6</u> TAPCR 1200-03-06-.02 TAPCR 1200-03-06-.03	Applicable: This facility has both internal and external fuel burning sources. Compliance is assured by the following: heat input rate, fuel type, emission factors, AP-42, calculations, recordkeeping, use of control devices, and control device monitoring Internal combustion engines –This facility has three internal combustion engines, two for emergency power and one for fire-fighting. These are non-permitted, insignificant, sources regulated by size and by fuel type. Note: Although the Division considers engines a process emission source, the PM emission limit is set from Chapter 6. External combustion engines – This facility has a permitted 15 MMBtu mixed waste and natural gas -fired RCRA industrial boiler with spray dryer/quench, fabric filter, activated carbon injection, packed-bed scrubber, feed stream analysis plan, and HEPA filter controls. There is also a 4 MMBtu boiler which is a non-permitted, insignificant source because emissions are less than 5 TPY criteria and less than 1000 pounds of HAP.
<u>Chapter 7</u> TAPCR 1200-03-07-.01(1) TAPCR 1200-03-07-.07(1) TAPCR 1200-03-07-.04(1)	Applicable: This facility has process emission sources including waste storage, treatment, and processing operations in Source 06 and three internal combustion engines that are considered to be insignificant sources. Compliance is assured by the following: HEPA and carbon filters, dust collectors, pre-filters, carbon adsorbers, AP42 emissions factors, and control device monitoring
<u>Chapter 10</u> TAPCR 1200-03-10-.02(2)(a)	Applicable: This facility is subject to record keeping requirements outlined in this chapter. See conditions E2-2, E3-2, and E3-25.
<u>Chapter 11</u>	This chapter was repealed in 2022
<u>Chapter 14</u> TAPCR 1200-03-14-.02(2)(a) TAPCR 1200-03-14-.03(5)	Applicable: This facility has sources that emit SO₂. Compliance is assured by the following: limiting sulfur content of the fuel to 1.0% by weight, requiring Purchased natural gas combusted in the boiler system to conform with 40 CFR §79.55 Base Fuel Specifications. For all fuels other than natural gas, compliance shall be demonstrated by on-site or independent laboratory analysis of each batch of fuel prior to combustion.



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REGULATORY APPLICABILITY REVIEW

Regulations	Comments/ Requirements (Monitoring/Recordkeeping/Reporting/Testing)
<u>Other state regulations:</u> <i>Chapter(s) 18, 22, 27, etc.</i>	Not applicable. This facility is not located in Davidson, Rutherford, Shelby, Sumner, Knox, Blount, Anderson, Williamson, or Wilson County, VOC emissions are less than 25 TPY, and NOX emissions are less than 100 TPY. This facility does not burn coal, the boilers are rated less than 250 MMBtu/hr, and is neither a cement kiln nor a gas turbine so 1200-03-27 does not apply. This facility emits less than 1.25 TPY lead so 1200-03-22 does not apply.



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REGULATORY APPLICABILITY REVIEW

Regulations	Comments/ Requirements (Monitoring/Recordkeeping/Reporting/Testing)
<u>40 CFR 60</u>	<u>Subpart Dc</u> The Boiler (ID 01) was considered for applicability to 40 CFR 60 Subpart Dc: Standards Of Performance For Small Industrial-Commercial-Institutional Steam Generating Units. Construction was completed in 1990-1992. The boiler is rated at 15 MMBtu/hr. It is not subject because the first permit was issued, and the boiler begun construction, in 1988 , which was prior to June 9, 1989. There was a second [aux] boiler constructed later, but it is rated at less than 10 MMBtu/hr, so it is also not subject. <u>Subpart Kb</u> This is the regulation for storage tanks, applicable to tanks constructed between 1984 and 2023, but the lower limit of applicability is 75 cubic meters [or about 20,000 gallons of water]. No tank at this facility is over that size. There are several other K regulations, but these have higher limits and different applicability dates. See Condition E4-2. <u>Subpart IIII</u> One of the emergency engines is subject to this regulation for compression ignition engines. Two of the three emergency engines are fueled by Number 2 fuel oil [diesel], but one of them was installed in 1995 and therefore predates the Federal regulation. One of the engines is used for fire fighting; the other is used for emergency power. See also permit condition D14. <u>Subpart JJJJ</u> One of the emergency engines was installed in 2021 and is fueled by natural gas and therefore subject to this regulation for spark ignition engines. See also permit condition D14.



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REGULATORY APPLICABILITY REVIEW

Regulations	Comments/ Requirements (Monitoring/Recordkeeping/Reporting/Testing)
<u>40 CFR 61 C</u>	This facility accepts wastes containing Beryllium, and is therefore subject to this subpart. 40CFR61.30-34
<u>40 CFR 61 FF</u>	This facility was considered for applicability to the National Emission Standard for Benzene Waste Operations because the provisions of this subpart apply to owners and operators of hazardous waste treatment, storage, and disposal facilities that treat, store, or dispose of hazardous waste generated by chemical manufacturing plants, coke by-product recovery plants, and petroleum refineries. See 40 CFR 61.340 (a) and (b). There is no waste acceptance if source is ≥ 10 Mg/yr, so this facility is except from FF requirements. See 61.342(a)
<u>40 CFR 62 RR</u>	Part 62 includes all State plans, and RR is the one for TN. More specifically, this is the one for commercial and industrial incinerators in the State of TN. Note that the only waste incinerator subject to this requirement is the Nashville Thermal Transfer Corporation, in Nashville, Tennessee.
<u>40 CFR 63</u>	<u>Subpart EEE</u> Facilities subject to this regulation are required to apply for and receive a T5 operating permit. 1990-92 Boiler is existing, not new, according to the definitions [new is after 1996]. DSSI is in compliance with this regulation. <u>Subpart ZZZZ</u> There are three emergency engines, each one is subject to this regulation. See also permit condition D14.
<u>40 CFR 68</u> <i>112(r)</i>	Applicable: The facility uses and/or stores chemicals above the threshold quantities outlined in the regulation and submits the appropriate report.
<u>40 CFR 64</u>	Source 01 at this facility is subject to 40 CFR61 C and 40 CFR 63 EEE, and sources 01, 06, and 07, at this facility are not major sources of air emissions. This facility is Title V by regulation [EEE]. Therefore, CAM does not apply



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Facility Name: DIVERSIFIED SCIENTIFIC SERVICES, INC.
Permit Number: 582014
Permit Writer: DSWr

Facility ID Number: 73-0137
Date Application Received: December 12, 2023
Date Application Completed: December 12, 2023

REGULATORY APPLICABILITY REVIEW

Regulations	Comments/ Requirements (Monitoring/Recordkeeping/Reporting/Testing)
<u>Special Conditions, Monitoring, Limits</u>	Applicable: Testing is required for waste fuel burning boiler to confirm emissions. This testing is conducted on a regular basis.
Modeling Review	Applicable: This facility does emit small amounts of Pb [0.05 TPY], HCl [3.6 TPY], and HF [0.22 TPY actual]. An impact analysis for HCl and lead [pb] is ongoing [June 8, 2026].
Previous Permit Number(s)	961535P, 453191, 560519, 566728, 574059

EMISSION SUMMARY

Table 4: SOURCE SPECIFIC EMISSIONS

PERMIT EMISSIONS						
Source	Pollutant	Actual /Controll ed Emission s	Regulatory Allowable Emissions	Uncontroll ed Emissions	Potential to Emit (PTE)	Permitted Allowable
		lb/hr	gr/dscf/lb/hr/lb/MMB TU	lb/hr	lb/hr	gr/dscf/lb/hr/lb/MMB TU
01	PM	0.006	80 mg/dscfm	0.006	0.006	mg/dscfm
00	SO ₂	5	Lb/hr	5	5	Lb/hr
01	HF	0.05	0.66 Lb/hr	0.05	0.05	Lb/hr
01	Mercury	0.01	130 Ug/dscm	0.01	0.01	Ug/dscm
01	Beryllium	0.004	10 Grams/day	0.004	0.004	Grams/day
01	HCl	0.004	0.051 Lbs/MMBtu	0.004	0.004	Lbs/MMBtu
01	D/F	3.25E-5	0.4 Nanograms/dscm	3.25E-5	3.25E-5	Nanograms/dscm
01	Lead and Cad	0.012	150 Micrograms/dscm	0.012	0.012	Micrograms/dscm



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PERMIT EMISSIONS						
Source	Pollutant	Actual /Controlled Emissions	Regulatory Allowable Emissions	Uncontrolled Emissions	Potential to Emit (PTE)	Permitted Allowable
		lb/hr	gr/dscf/lb/hr/lb/MMB TU	lb/hr	lb/hr	gr/dscf/lb/hr/lb/MMB TU
01	Chromium	0.03	370 Micrograms/dscm	0.03	0.03	Micrograms/dscm
06	PM	4.11	0.02 Grains/dscfm	4.11	4.11	Grains/dscfm

Notes:

These values were determined through either source testing or the regulatory limit was used. PM from Source 06 is regulated by 1200-03-.07-.04(1)

PERMIT EMISSIONS				
SOURCE 00				
Pollutant	Actual/Controlled Emissions	Uncontrolled Emissions	Potential to Emit (PTE)	Permitted Allowable
	TPY	TPY	TPY	TPY
Insig HAPs	0.06	0.06	0.06	0.2

Notes:

There is no facility wide HAP limit, but many individual HAPs are limited in these tables.



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PERMIT EMISSIONS				
SOURCE 01				
Pollutant	Actual/Controlled Emissions	Uncontrolled Emissions	Potential to Emit (PTE)	Permitted Allowable
	TPY	TPY	TPY	TPY
PM	0.03	0.03	0.03	0.03
NO _x	19.5	19.5	19.5	39
HF	0.22	0.22	0.22	2.89
Mercury	0.05	0.05	0.05	0.05
Beryllium	0.004	0.004	0.004	0.004
HCl	0.02	0.02	0.02	3.35
D/F	0.000142	0.000142	0.000142	0.000142
Pb and Cad	0.05	0.05	0.05	0.05
Chrome	0.13	0.13	0.13	0.13

Notes:

There are no hourly limitations on this permit, so 8760 hours was used in every case for annual, or 12 month, emissions.

PERMIT EMISSIONS				
SOURCE 06				
Pollutant	Actual/Controlled Emissions	Uncontrolled Emissions	Potential to Emit (PTE)	Permitted Allowable
	TPY	TPY	TPY	TPY
PM/PM ₁₀ /PM _{2.5}	18	18	18	18
VOC	15	15	15	15

Notes:

There are no hourly limitations on this permit, so 8760 hours was used in every case.



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SUMMARY AND CONCLUSIONS

It has been determined that this facility, if operated in accordance with the submitted application, will meet all applicable requirements and emission standards.