United States Environmental Protection Agency
Region 5
77 W. Jackson Blvd.
Chicago, IL 60604

TITLE V PERMIT TO OPERATE

Permit Number: 2026-71MNML-004 Expiration Date: To Be Determined

Issue Date: **DRAFT** Effective Date: To Be Determined

In accordance with the provisions of title V of the Clean Air Act, (42 U.S.C. 7401 *et seq*.), 40 C.F.R. Part 71, and other applicable rules and regulations,

Mille Lacs Corporate Ventures dba Grand Casino Hinckley

is authorized to operate air emission units and to conduct other air pollutant emitting activities in accordance with the permit conditions listed in this permit.

This source is authorized to operate in the following location:

Grand Casino Hinckley
777 Lady Luck Drive
Hinckley, Minnesota 55037

Grand Casino Hinckley is located in Pine County, Minnesota, located on the lands held in trust for the Mille Lacs Band of Ojibwe Indians.

Terms and conditions not otherwise defined in this permit have the meaning assigned to them in the referenced regulations. All terms and conditions of the permit are enforceable by the U.S. Environmental Protection Agency and U.S. citizens under the Clean Air Act.
Once effective, this permit supersedes any other permit issued to the source or operations within the source pursuant to title V of the Clean Air Act and 40 C.F.R Part 71.

GENEVIEVE DAMICO Digitally signed by GENEVIEVE DAMICO
Date: 2026.09.17 14:56:11 -05'00'

Genevieve Damico
Section Supervisor, Air Permits Section
Air & Radiation Division

Abbreviations, Acronyms and Symbols

ASTM	American Society for Testing and Materials
C.F.R.	Code of Federal Regulations
EPA	U. S. Environmental Protection Agency, Region 5
EU	Emission Unit
facility	Grand Casino Hinckley
lb	pound
NO_x	Nitrogen Oxides
NSR	New Source Review
Operator	Grand Casino Hinckley
Permittee	Grand Casino Hinckley
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 microns in diameter
ppm	parts per million
ppmv	parts per million by volume
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit

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Permit Issuance History

Date of Issuance	Permit Number	Description of Permit Action
TBD	2026-71MNML-004	Part 71 Permit 3rd Renewal
November 8, 2021	2021-71MNML-003	Part 71 Permit 2nd Renewal
April 24, 2017	V-ML-2711500031-2016-02	Part 71 Permit Significant Modification
October 20, 2016	V-ML-2711500031-2016-01	Part 71 Permit 1st Renewal
December 30, 2010	V-ML-2711500031-2010-01	Part 71 Initial Permit

Permit Authority

The Administrator will administer and enforce an operating permits program in Indian country, as defined in Section 71.2, when an operating permits program which meets the requirements of part 70 of this chapter has not been explicitly granted full or interim approval by the Administrator for Indian country.

Source Information and Emission Units

Parent Company: Mille Lacs Corporate Ventures dba Grand Casino Hinckley
777 Lady Luck Drive
Hinckley, Minnesota 55037

Facility: Grand Casino Hinckley
777 Lady Luck Drive
Hinckley, Minnesota 55037

County: Pine

Tribe/Reservation: Mille Lacs Band of Ojibwe Indian Reservation

SIC Code: 7011, 4911

Description of Process: Three diesel-fired generator sets provide peak load management and backup power for Grand Casino Hinckley. Electricity generated at the facility will not be sold for distribution. The operation of EU001, EU002, and EU003 are each limited to 800 hours per year.

Grand Casino Hinckley also owns and operates two diesel-fired emergency internal combustion engines, EU004 and EU005, used for backup power. The emergency engines are rated at 535 and 960 horsepower, respectively. The emergency engines have not been operated for peak load management.

Source Emission Points

Emission Unit (EU) ID	Description	Control Equipment
EU001	Caterpillar 3516B diesel fired generator installed on December 4, 2004. The generator is used for backup power and peak load management. The generator is a turbocharged 16-cylinder engine driving a 1,825-kilowatt generator. The engine burns ultra-low sulfur (0.0015%) diesel fuel.	Oxidation catalyst
EU002	Caterpillar 3516B diesel fired generator installed on December 4, 2004. The generator is used for backup power and peak load management. The generator is a turbocharged 16-cylinder engine driving a 1,825-kilowatt generator. The engine burns ultra-low sulfur (0.0015%) diesel fuel.	Oxidation catalyst
EU003	Caterpillar 3516B diesel fired generator installed on December 4, 2004. The generator is used for backup power and peak load management. The generator is a turbocharged 16-cylinder engine driving a 1,825-kilowatt generator. The engine burns ultra-low sulfur (0.0015%) diesel fuel.	Oxidation catalyst
EU004	Detroit V-16 diesel-fired emergency internal combustion engine installed in 1992. The engine is used for backup power and is rated at 535 horsepower.	No controls
EU005	Cummins diesel-fired emergency internal combustion engine installed in 1997. The engine is used for backup power and is rated at 960 horsepower.	No controls

Section 1 General Requirements

Definitions [40 C.F.R. Section 71.2]

1. Terms and conditions have the meaning assigned to them in 40 C.F.R. Part 71 unless the permit otherwise defines the terms or references other regulations or statutes.

2. Annual Fee Payment [40 C.F.R. Sections 71.6(a)(7) and 71.9]
   a. The Permittee shall pay an annual permit fee in accordance with the procedures outlined below. [40 C.F.R. Section 71.9(a)]
   b. The Permittee shall submit an annual report of its actual emissions for the preceding calendar year, a fee calculation work sheet (based on the report), and full payment of the annual fee each year. The Permittee shall submit the annual report and pay the annual fee each year, as outlined below, on or before November 15th of each year. [40 C.F.R. Section 71.9(h)(1)]

3. The Permittee shall submit the annual report via the CEDRI electronic reporting system as described below. If the Permittee is unable to submit the documents electronically, they can be mailed to:

   U.S. EPA Region 5
   Air and Radiation Division
   Air Programs Branch (AR-18J)
   Air Permits Section
   77 West Jackson Boulevard
   Chicago, Illinois 60604

   The fee payment shall be in United States currency and shall be paid by electronic funds transfer payable to the order of the U.S. Environmental Protection Agency. [40 C.F.R. Section 71.9(k)(1)]

4. The Permittee shall send fee payment and a completed fee filing form (Form FF) to the address designated on the fee calculation worksheet (Form FEE). Form FEE and Form FF can be found on the EPA website: https://www.epa.gov/title-v-operating-permits/epa-issued-operating-permits. [40 C.F.R. 71.9(k)(2)]

5. The Permittee shall send to the address listed in this section of this permit an updated fee calculation worksheet form and a photocopy of each fee payment check (or other confirmation of actual fee paid) submitted annually by the same deadline as required for fee payment. The Permittee may use the fee calculation worksheet that incorporates an annual emissions report, which is required at the same time as the fee calculation worksheet by Condition 3 of this permit and 40 C.F.R. Section 71.9(h).

6. Basis for calculating annual fee [40 C.F.R. Section 71.9(c)]:
   a. The annual emissions fee shall be calculated by multiplying the total tons of actual emissions of all regulated pollutants (for fee calculation) emitted from the source,

including fugitive emissions by the presumptive emissions fee (in dollars/ton) in effect at the time of calculation;

b. "Actual emissions" means the actual rate of emissions in tons per year of any "regulated pollutant (for fee calculation)" emitted from a Part 71 source over the preceding calendar year. Actual emissions shall be calculated using each emissions unit's actual operating hours, production rates, in-place control equipment, and types of materials processed, stored, or combusted during the preceding calendar year. [40 C.F.R. Section 71.9(c)(6)];

c. Actual emissions shall be computed using methods required by the permit for determining compliance, such as monitoring or source testing data. [40 C.F.R. Section 71.9(h)(3)];

d. The term "regulated air pollutant (for fee calculation)" is defined in 40 C.F.R. Section 71.2; and

e. The emission fee in effect at the time of calculation will be determined in accordance with 40 C.F.R 71.9(n)(1) and published in the Federal Register.

f. The Permittee shall exclude the following emissions from the calculation of fees:

g. The amount of actual emissions of each regulated pollutant (for fee calculation) that the source emits more than 4,000 tons per year [40 C.F.R. Section 71.9(c)(5)(i)];

h. Actual emissions of any regulated pollutant (for fee calculation) already included in the fee calculation [40 C.F.R. Section 71.9(c)(5)(ii)]; and

i. The quantity of actual emissions (for fee calculation) of insignificant activities as defined in 40 C.F.R. Section 71.5(c)(11)(i) or of insignificant emission levels from emissions units identified in the Permittee's application pursuant to 40 C.F.R. Section 71.5(c)(11)(ii). [40 C.F.R. Section 71.9(c)(5)(iii)]

7. The Permittee must certify the fee calculation worksheet as to truth, accuracy, and completeness by a responsible official.

8. The Permittee shall retain fee calculation worksheets and other emissions-related data used to determine fee payment for 5 years following submittal of fee payment. Emission-related data include, for example, emissions-related forms provided by the EPA and used by the Permittee for fee calculation purposes, emissions-related spreadsheets, and emissions-related data, such as records of emissions monitoring data and related support information required to be kept in accordance with 40 C.F.R. Section 71.6(a)(3)(ii). [40 C.F.R. Section 71.9(i)]

9. Failure of the Permittee to pay fees in a timely manner shall subject the Permittee to assessment of penalties and interest in accordance with 40 C.F.R. Section 71.9(l).

10. When notified by the EPA of underpayment of fees, the Permittee shall remit full payment with 30 days of receipt of notification. [40 C.F.R. Section 71.9(j)(1) and (2)]

11. If the Permittee believes that the EPA-assessed fee is in error and wishes to challenge such fee, the Permittee shall provide a written explanation of the alleged error to the EPA along with full payment of the EPA assessed fee. [40 C.F.R. Section 71.9(j)(3)]

Compliance Statement [40 C.F.R. Section 71.6(a)(6)]

12. The Permittee must comply with all conditions of this Part 71 permit. Any noncompliance with this permit constitutes a violation of the Clean Air Act and is grounds for [40 C.F.R. Section71.6(a)(6)(i)]:

    a. An enforcement action;

    b. Permit termination, revocation and reissuance, or modification; or

    c. Denial of a permit renewal application.

13. Need to halt or reduce activity is not a defense. 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 this permit. [40 C.F.R. Section 71.6(a)(6)(ii)]

Compliance Certifications [40 C.F.R. Section 71.6(c)(5)]

14. The Permittee shall submit annually to the EPA a certification of compliance with all permit terms and conditions, including emission limitations, standards or work practices, for the reporting period from January 1 to December 31, except the first reporting period shall begin on the effective date of this permit and end on December 31. All reports shall be submitted to the EPA and shall be postmarked by the 30th day following the end of the reporting period. The compliance certification shall be certified as to the truth, accuracy, and completeness by a responsible official in accordance with this permit. The certification shall include the following [40 C.F.R. Section 71.6(c)(5)]:

    a. Identification of each permit term or condition that is the basis of the certification;

    b. Identification of the method(s) or other means used for determining the compliance status of each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. If necessary, the Permittee also shall identify any other material information that must be included in the certification to comply with Section 113(c)(2) of the Clean Air Act, which prohibits making a false certification or omitting material information;

    c. The source's compliance status with each term and condition of the permit, including whether monitoring data is continuous and whether the data or any other credible evidence shows the compliance is continuous. The certification shall identify each deviation and take it into account in the compliance certification; and

    d. The source may submit compliance forms via the EPA's Compliance and Emission Reporting Data Interface (CEDRI). The following reports can be submitted electronically via the CEDRI system: Part 71 - 71.5 Title V Permit Application, 71.6(a)(3)(iii)(A) Semiannual Monitoring Report, 71.6(a)(3)(iii)(B)

Deviation Report, 71.6(a)(13) Notification of 502(b)(10) Changes, 71.6(c)(5)(iii) Annual Compliance Certification Report

Schedule of Compliance [40 C.F.R. Section 71.5(c)(8)(iii), 40 C.F.R. Section 71.6(c)(3)]

15. For applicable requirements with which the source is in compliance, the source will continue to comply with such requirements.

16. For applicable requirements that will become effective during the permit term, the source shall comply as required by the terms of the applicable requirement.

Duty to Provide and Supplement Information

17. The Permittee shall furnish to the EPA, within a reasonable time, any information that the

18. The EPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the EPA copies of records that are required to be kept pursuant to the terms of this permit, including information claimed to be confidential. Information claimed to be confidential should be accompanied by a claim of confidentiality according to the provisions of 40 C.F.R. Part 2, Subpart B.

19. The Permittee, upon becoming aware that it omitted from its application any relevant facts or submitted incorrect information in the permit application, shall promptly submit such supplementary facts or corrected information. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after this permit is issued.

Enforceability [40 C.F.R. Section 71.6(b)]

20. All terms and conditions in this permit, including any provisions designated to limit a source's potential to emit, are enforceable by the EPA and citizens in accordance with the Clean Air Act.

Submissions [40 C.F.R. Section 71.5(d), 40 C.F.R. Section 71.6, 40 C.F.R. Section 71.9]

21. A responsible official of the Permittee shall certify as to the truth, accuracy, and completeness of any document required to be submitted by this permit. Such certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

22. Except as otherwise specified in this permit, the Permittee shall submit all documents required to be submitted by this permit to:

U.S. EPA Region 5
Enforcement and Compliance Assurance Division
Air Enforcement and Compliance Assurance Branch (ECA-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604

23. The Permittee shall send all required notifications, reports and test plans to the EPA through the EPA's Central Data Exchange/Compliance and Emission Data Reporting Interface or in hardcopy through postal service at the addresses listed below. Items sent by postal service shall be postmarked by the applicable due date identified in this permit.

    CDX/CEDRI
    https://cdx.epa.gov

    (First-time users will need to register with CDX. If no specific reporting option is available in CEDRI, select "Other Reports." If the system is unavailable contact the EPA Region 5 at this email address: R5AirEnforcement@epa.gov).

    The following reports may be submitted electronically via the EPA's CEDRI:

    71.5 Title V Permit Application;

    71.6(a)(3)(iii)(A) Semiannual Monitoring Report;

    71.9(h)(1) Annual Report;

    71.6(a)(3)(iii)(B) Deviation Report;

    71.6(a)(13) Notification of 502(b)(10) Changes; and

    71.6(c)(5)(iii) Annual Compliance Certification Report

24. The Permittee shall submit all submittals that are required by the Acid Rain Program, 40 C.F.R. Parts 72 through 78, to:

    U.S. Environmental Protection Agency
    Clean Air Markets Division
    1200 Pennsylvania Avenue, NW
    Mail Code 6204M
    Washington, DC 20460

Severability [40 C.F.R. Section 71.6(a)(5)]

25. The provisions of this permit are severable, and in the event of any challenge to any portion of this permit, or if any portion is held invalid, the remaining permit conditions shall remain valid and in force.

Permit Actions [40 C.F.R. Section 71.6(a)(6)(iii)]

26. This 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. [40 C.F.R. Section 71.6(a)(6)(iii)]

27. The Permittee may request the use of administrative permit amendment, minor permit modification or significant modification procedures for a permit revision in accordance with 40 C.F.R. Section 71.7(d), (e)(1), and (e)(3).

Reopening for Cause [40 C.F.R. Section 71.7(f)]

28. The EPA shall reopen and revise the permit prior to expiration under any of the circumstances described in 40 C.F.R 71.7(f).

Property Rights[40 C.F.R. Section 71.6(a)(6)(iv)]

29. This permit does not convey any property rights of any sort, or any exclusive privilege.

Inspection and Entry[40 C.F.R. Section 71.6(c)(2)]

30. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the EPA or an authorized representative to perform the following:

    a. Enter upon the Permittee's premises where a Part 71 source is located or emissions-related activity is conducted, or where records are 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 a reasonable time 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, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Off Permit Changes[40 C.F.R. Section 71.6(a)(12)]

31. The Permittee is allowed to make certain changes without a permit revision, provided that the following requirements are met:

    a. The change is not addressed or prohibited by this permit;

    b. The change must comply with all applicable requirements and may not violate any existing permit term or condition;

    c. The change cannot be subject to any requirement of 40 C.F.R. Parts 72 through 78 or modifications under any provision of Title I of the Clean Air Act; and

    d. The permit shield does not apply to any change made under this provision.

32. The Permittee shall retain a record of off-permit changes pursuant to 40 C.F.R. 71.6(a)(12)(iv).

33. The Permittee must provide contemporaneous written notice to the EPA of the change, except if the change qualifies as insignificant activity under 40 C.F.R. Section 71.5(c)(11). The written notice must describe the change, the date of the change, any change in emissions, pollutants emitted, and any applicable requirements that would apply as a result of the change.

Permit Expiration and Renewal [40 C.F.R. Sections 71.5(a)(1)(iii), 71.6(a)(11), 71.7(b), 71.7(c)(1)(i) and (ii), 71.8(d)]

34. This permit shall expire on the expiration date on page one of this permit or on an earlier date if the source is issued a Part 70 or Part 71 permit by a permitting authority under an EPA approved or delegated permit program.

35. Expiration of this permit terminates the Permittee's right to operate unless the Permittee has submitted a timely and complete permit renewal application at least 6 calendar months, but not more than 18 calendar months, prior to the date of expiration of this permit.

36. If the Permittee submits a timely and complete permit application for renewal, consistent with 40 C.F.R. Section 71.5(a)(2), but the EPA has failed to issue or deny the renewal permit, then the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted pursuant to 40 C.F.R. Section 71.6(f) may be extended beyond the original permit term until renewal.

37. If the Permittee has submitted a timely and complete application for renewal, the Permittee's failure to have a Part 71 permit is not a violation of Part 71 until the EPA takes final action on the permit renewal application. This protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit any additional information identified as being needed to process the application by the deadline specified in writing by the EPA.

38. Renewal of this permit is subject to the same procedural requirements that apply to initial permit issuance, including those for public participation and affected state and tribal review.

39. The application for renewal shall include the current permit number, description of permit revisions and off-permit changes that occurred during the permit term, any applicable requirements that were promulgated and not incorporated into the permit during the permit term, and other information required by the application form.

Operational Flexibility and Emissions Trading [40 C.F.R. Section 71.6(a)(13) and (a)(8)]

40. The Permittee may make changes within a permitted facility without a permit revision, provided the following conditions are met [40 C.F.R. Section 71.6(a)(13)]:

    a. The changes are not modifications under any provision of Title I of the Clean Air Act;

b. The changes do not result in emissions that exceed the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions); and
c. The Permittee notifies the EPA at least 7 days in advance of the proposed changes. The written notification shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
d. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. The permit shield described in Section71.6(f) shall not apply to any change made pursuant to this paragraph. [40 C.F.R. Section 71.6(a)(13)(i)(B)]

Permit Shield [40 C.F.R. Section 71.6(f)]

41. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

    a. Such applicable requirements are included and are specifically identified in the permit; or

    b. The EPA, 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 of the determination.

42. Nothing in the permit shield or in this permit shall alter or affect the following:

    a. The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the Administrator under that section;

    b. 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;

    c. The applicable requirements of the acid rain program, consistent with section 408(a) of the Act; or

    d. The ability of the EPA to obtain information under Section 114 of the Clean Air Act.

Credible Evidence [62 Fed. Reg. 8314 (February 24, 1997)]

43. Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee and the EPA) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

Section 2 Facility-Wide Requirements

Protection of Stratospheric Ozone [40 C.F.R. Part 82]

1. The Permittee shall comply with all applicable standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for motor vehicle air conditioners at 40 C.F.R. Part 82, Subpart B.

General Recordkeeping Requirements [40 C.F.R. Section 71.6(a)(3)(ii)]

2. Records required by this permit shall contain the following information, where applicable [40 C.F.R. Section 71.6(a)(3)(ii)(A)]:
   a. The date, place as defined in this permit, and time of sampling or measurements;
   b. The date(s) analyses were performed;
   c. The company or entity that performed the analyses;
   d. The analytical techniques or methods used;
   e. The results of such analyses; and
   f. The operating conditions existing at the time of sampling or measurement.
3. The Permittee must keep a record describing all changes that result in emissions of any regulated air pollutant subject to an applicable requirement not otherwise regulated under this permit, and the emissions resulting from those changes.
4. 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. [40 C.F.R. Section 71.6(a)(3)(ii)(B)]

General Reporting Requirements [40 C.F.R. Section 71.6(a)(3)(iii)]

5. The Permittee shall submit to the EPA a semiannual report of all required monitoring during each six-month reporting period from January 1 to June 30 and from July 1 to December 31. All reports shall be submitted to the EPA and shall be postmarked by the 30th day following the end of the reporting period. All instances of deviations from permit requirements must clearly be identified in the report. All required reports must be certified by a responsible official consistent with 40 C.F.R. Section 71.5(d). [40 C.F.R. Section 71.6(a)(3)(iii)(A)]
6. A monitoring report under this section shall include the following:
   a. The company name and address;
   b. The beginning and ending dates of the reporting period;
   c. The emissions unit or activity being monitored;

d. The emissions limitation or standard, including operational requirements and limitations (such as parameter ranges), specified in the permit for which compliance is being monitored;

e. All instances of deviations from permit requirements whether demonstrated by reference test method, monitoring, or through any other credible evidence, including those attributable to upset conditions as defined in this permit, the date on which each deviation occurred, and either the total duration of deviations indicated by such monitoring or the actual records of deviations;

f. The total time when monitoring required by this permit was not performed during the reporting period;

g. All other monitoring results, data, or analyses required to be reported by the applicable requirement; and

h. The name, title, and signature of the responsible official who is certifying to the truth, accuracy, and completeness of the report.

7. The Permittee shall promptly report to the EPA and the Mille Lacs Band the deviations from permit requirements, including those attributable to upset conditions as defined in this permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. [40 C.F.R. Section 71.6(a)(3)(iii)(B)].

8. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. [40 C.F.R. Section 71.6(a)(3)(iii)(B)]

9. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the EPA based on the following schedule [40 C.F.R. Section 71.6(a)(3)(iii)(B)]:

   a. For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence. [40 C.F.R. Section 71.6(a)(3)(iii)(B)(1)]

   b. For emissions of any regulated air pollutant, excluding those listed 40 C.F.R. Section 71.6(a)(3)(iii)(B)(1), that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours. [40 C.F.R. Section 71.6(a)(3)(iii)(B)(2)]

   c. For all other deviations from permit requirements, the report shall be contained in the report submitted in the semiannual monitoring report. [40 C.F.R. Section 71.6(a)(3)(iii)(B)(3)]

10. The Permittee shall notify the EPA by telephone based on the deviation reporting timeframe. A written notice, certified consistent with 40 C.F.R. Section 71.5(d), must be

submitted within 10 working days of the occurrence. All reported deviations must also be identified in the semiannual monitoring report. [40 C.F.R. Section 71.6(a)(3)(iii)]

11. "Deviation" means any situation in which an emissions unit fails to meet a permit term or condition. A deviation is not always a violation. A deviation can be determined by observation or through review of data obtained from any testing, monitoring, or recordkeeping established in accordance with 40 C.F.R. Section 71.6(a)(3)(i) and (ii). For a situation lasting more than 24 hours which constitutes a deviation, each 24-hour period is considered a separate deviation. "Deviations" includes, but is not limited to, any of the following [40 C.F.R. Section 71.6(a)(3)(iii)(C)]:
    a. A situation where emissions exceed an emission limitation or standard;
    b. A situation where process or emissions control device parameter values indicate that an emission limitation or standard has not been met;
    c. A situation in which observations or data collected demonstrates noncompliance with an emission limitation or standard or any work practice or operating condition required by this permit; or
    d. A situation in which an exceedance or an excursion, as defined in 40 C.F.R. Part 64, occurs.

Monitoring and Reporting for PSD Modifications to the Facility [40 C.F.R 52.21(r)(6)]

12. Where there is a reasonable possibility (as defined in 40 C.F.R 52.21(r)(6)(vi) that a project (other than projects at a source with a plantwide applicability limitation (PAL)) that is not a part of a major modification may result in a significant emissions increase of any regulated NSR pollutant and the Permittee elects to use the method specified in 40 C.F.R 52.21(b)(41)(ii)(a) through (c) for calculating projected actual emissions, the Permittee shall perform the following:
    a. Before beginning actual construction of the project, document and maintain a record of the following information:
    b. A description of the project:
    c. Identification of the emissions unit(s) whose emissions of a regulated NSR pollutant could be affected by the project: and
    d. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded under 40 C.F.R 52.21(b)(41)(ii)(c) and an explanation for why such amount was excluded, and any netting calculations, if applicable.
13. Monitor the emission of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any emissions unit identified in Emission Unit table at the beginning of this permit; and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five years following resumption of

regular operations after the change, or for a period of ten years following resumption of regular operations after the change if the project increases the design capacity or potential to emit of that regulated NSR pollutant at such emissions unit.

14. If monitoring and recordkeeping is required, the Permittee shall report to the EPA when the annual emissions, in tons per year, from the project exceed the baseline actual emissions, as documented and maintained, by a significant amount (as defined in 40 C.F.R 52.21(b)(23)) for that regulated NSR pollutant, and when such emissions differ from the preconstruction projection as documented and maintained. Such report shall be submitted to the EPA within 60 days after the end of such year. The report shall contain the following:

    a. The name, address and telephone number of the major stationary source;

    b. The annual emissions as calculated; and

    c. Any other information that the owner or operator wishes to include in the report (*e.g.*, an explanation as to why the emissions differ from the preconstruction projection).

Section 3 Unit-Specific Requirements

Emission Limitations and Work Practice Requirements [40 C.F.R. Section 71.6(a)(1)]

The Permittee shall comply with the following requirements:

1. Nitrogen Oxide (NO_X) Limitations for EU001, EU002, and EU003

    a. NOx emission rate shall be at all times no greater than 6.55 grams per brake horsepower-hour (g/BHP-hr) per engine, expressed as NO_2, averaged over the duration of the emission performance test or any three consecutive hours. [PSD-ML-2711500031-2017-03, Section (4)(1)(a)]

    b. NOx emission rate shall at times be no greater than 37.44 pounds per hour (lb/hr) per engine, expressed as NO_2, averaged over the duration of the emission performance test or any three consecutive hours. [PSD-ML-2711500031-2017-03, Section (4)(1)(b)]

    c. NOx emissions shall be no greater than 14.98 tons per year (tpy), expressed as NO_2, calculated based on a 12-month rolling sum. Compliance with this limit shall be based on a rolling sum of monthly emissions during the previous 12 months. [PSD-ML-2711500031-2017-03, Section (4)(1)(c)]

2. Work Practice and Operational Requirements

    The Work Practice and Operational Requirements under this section apply to EU001, EU002, and EU003 unless otherwise indicated.

    a. Engine operating hours. The operating hours of each emission unit shall be no greater than 800 hours per year based on a 12-month rolling sum. This operating hours limit applies to each unit separately. Compliance with this limit shall be based on a rolling sum of monthly emissions during the previous 12 months. [PSD-ML-2711500031-2017-03, Section (4)(1)(d)]

    b. Turbocharger and aftercooler operation. A turbocharger and aftercooler shall be used at all times during operation of any of the emission units. [PSD-ML-2711500031-2017-03, Section (4)(1)(e)]

    c. Aftercooler water temperature. The aftercooler return water temperature for each engine shall be maintained at less than or equal to 140 degrees Fahrenheit through the use of thermostatic valves. [PSD-ML-2711500031-2017-03, Section (4)(1)(f)-(g)]

d. Combustion operation. Each emission unit shall be operated in lean burn combustion conditions at all times. [PSD-ML-2711500031-2017-03, Section (4)(1)(e)(h)]

e. Intake manifold pressure for each engine shall be maintained at 28.1 to 76.2 inches of mercury (Hg) for 40 to 100% load for each engine. Each engine shall operate only between 40 to 100% load. [PSD-ML-2711500031-2017-03, Section (4)(1)(i)]

f. Retard engine timing. The emission units shall at all times be operated at Retard Engine Timing which involves delaying the injection of fuel in the engine for each engine. [PSD-ML-2711500031-2017-03, Section (4)(1)(k)]

g. Flash file program #180-1736, which electronically controls each engine, shall be set for retard engine timing. Contact the EPA before modifying any parameters pertaining to retard engine timing for any of the engines. [PSD-ML-2711500031-2017-03, Section (4)(1)(l)]

h. Operation of Emission Units. In any shutdown or breakdown of EU001, EU002, or EU003 or any deviation from any permit terms, the owner or operator shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The EPA may require feasible and practical modifications in the operation to reduce emissions of air pollutants. [PSD-ML-2711500031-2017-03, Section 7]

Monitoring [40 C.F.R. Section 71.6(a)(3)(i)(A)]

3. Monitoring for EU001, EU002, and EU003

a. Aftercooler water temperature for each engine shall be continuously monitored. [PSD-ML-2711500031-2017-03, Section (4)(1)(g)]

b. Intake manifold pressure for each engine shall be continuously monitored with intake manifold pressure sensors. [PSD-ML-2711500031-2017-03, Section (4)(1)(j)]

Testing Requirements [40 C.F.R. Section 71.6(3)]

4. Periodic NOx testing for EU001, EU002, and EU003

a. Performance testing on each emission unit shall be conducted to ascertain compliance with the NOx emission rates and limits in Section II(A)(1)(a) in accordance with the requirements set forth in this section. Determine the NOx emission rate, expressed as NO_2, using exhaust properties determined by both Method 19 of 40 C.F.R. Part 60 (unless otherwise approved by the EPA) and exhaust gas measurements

using Method 7E. [PSD-ML-2711500031-2017-03, Section (4)(1)(n); Section (5), "Reference Test Methods"]

b. Periodic performance tests shall be conducted every three calendar years to determine compliance with the applicable NO_x emissions limits set in Section II(A)(1)(a), and the owner and operator shall furnish the EPA with a written report of the results of such performance tests. [PSD-ML-2711500031-2017-03, Section 5, 40 C.F.R. Section 71.6(c)]

c. Testing notification. Written notification of the planned test date shall be postmarked or received by the EPA at least 30 days before the planned test date. The EPA shall reject the results of a test if less than 30-days notice is given unless written authorization of a shorter notice was given by the EPA Regional office. [PSD-ML-2711500031-2017-03, Section 5]

d. Test plans. Within 60 days after receiving a test request and at least 30 days before the scheduled date of any test, the owner or operator shall submit a complete plan for conducting the source test to the EPA for approval. The plan must address the methods and procedures to be used for sampling, testing, and quality assurance, and the operational conditions under which the tests will be performed and documented. Failure to submit a complete plan shall not alter the date by which any test is required. [PSD-ML-2711500031-2017-03, Section 5]

e. Approval of test plan. The owner or operator shall submit to the EPA a test plan with or in advance of the test notification required under this section or in response to the EPA's request for supplemental information. If the proposed test plan does not contain sufficient or accurate enough detail to ensure that the performance test meets the requirements of the applicable requirement or compliance document, the EPA may reject the plan, and the owner or operator must address any of the EPA's comments on revisions and additions that are necessary to make the plan complete. [PSD-ML-2711500031-2017-03, Section 5]

f. Format and content of test plan. The test plan shall be submitted in the following format and include the following elements [PSD-ML-2711500031-2017-03, Section 5]:

<u>Part I. General Information</u>

1. Name and address of emission facility;
2. Name, title, telephone number, and facsimile number of contact person at emission facility;
3. Permit number or name of other applicable compliance document;
4. Reason for testing;
5. Schematic drawing of stack and sample ports;
6. Location of plant; and

7. Name, contact person, telephone number, and facsimile number for testing company contracted to conduct the test.

Part II. Testing Requirements

1. List of the emission units, as identified in the applicable requirement or compliance document, and pollutants to be tested, the emission limit for each pollutant, and the applicable rule or regulation for each emission limit; and
2. Description of procedure for fuel sampling and analysis, where applicable.

Part III. Operating Conditions

1. List of the process or operating rate and conditions of the process equipment and air pollution control equipment for the test;
2. List of the range of process or operating rates for each emissions unit; and
3. Description of how air pollution control and process equipment will be monitored.

Part IV. Test Methods

1. List of the methods to be used to determine the emission rate of each pollutant;
2. Number of test runs, length of test run, and sampling rate for each method;
3. Reference to any applicable requirement or compliance document requiring use of specific methods or procedures;
4. Summary of reasons for proposing to use any alternative or equivalent method; and

5. For test methods other than reference methods, statement of the detection limit and the degree of accuracy of that method at the expected emission rate and under the conditions of the performance test.

g. Pretest meeting. The owner or operator shall contact the Air Enforcement and Compliance Assurance Branch, EPA Region 5, 77 West Jackson Boulevard, Chicago, Illinois 60604, to schedule a pretest meeting to be held between authorized employees of the agency and the owner or operator of the emission facility, with optional representation by the testing company. The pretest meeting shall be held at least seven days prior to the performance test date except that a shorter period shall be allowed if the EPA is able to accommodate a request for such a meeting. If the EPA agrees that an in-person meeting is not necessary, the pretest meeting will be conducted by telephone conference call unless the owner or operator of the emission facility requests an in-person meeting. [PSD-ML-2711500031-2017-03, Section 5]

h. Representative testing conditions. Performance tests shall be conducted under such conditions as the EPA shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the EPA such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of a performance test. [PSD-ML-2711500031-2017-03, Section 5]

i. Operating conditions for performance testing. All performance tests shall be conducted at worst case operating (non-malfunction) conditions for emission units for each air pollutant that is required to be tested unless [PSD-ML-2711500031-2017-03, Section 5]:

    1. The applicable requirement or compliance document specifies alternative operative conditions for performance testing; or
    2. The worst-case condition is not known or calculable. In this case, worst case conditions shall be assumed to be the maximum achievable process or operating rate of the emissions unit.

j. Test runs. Unless otherwise specified by the applicable Reference Test Method, each performance test shall consist of three separate runs. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the EPA's approval, be determined using the arithmetic mean of the results of the two other runs. [PSD-ML-2711500031-2017-03, Section 5]

k. Failure to demonstrate compliance. Upon the EPA's written notice that the facility has failed to demonstrate compliance with an applicable emission limit, the owner or operator of the emission facility, unless an alternative schedule is given in an applicable requirement or compliance document, shall: [PSD-ML-2711500031-2017-03, Section 5]

    1. Conduct a retest within 30 days of receipt of the EPA's written notice;
    2. Submit to the EPA written notice of testing, submit a test plan for the retest, and schedule a pretest meeting at least 21 days in advance of the date of the retest. The pretest meeting shall be held at least seven days prior to the date of the retest, except that a shorter period shall be allowed if the EPA is able to accommodate such a request for a meeting; and

3. Submit a complete report of the results of the retest within 45 days after completion of a set of tests.

   The owner or operator may receive an extension to the schedule if one of the following special circumstances applies:

   1. Seasonal or temporary shutdown of the affected emission units;
   2. Malfunction or breakdown of the affected emissions units, unless the EPA determines that a retest under such conditions is warranted in order to determine the effect of the malfunction or breakdown on emissions or where such conditions are representative of past operation of the emissions units;
   3. Weather conditions that prevent using the applicable test methods or prevent operations of the affected emission units at the required operating conditions;
   4. Any other conditions beyond the control of the owner or operator that prevent using the applicable test methods or prevent operation of the affected emissions units at the required operating conditions; or
   5. Any other condition beyond the control of the owner or operator that prevents completion of a retest within the required schedule.

l. Request for a retest extension. Any request for an extension of the time schedule shall be submitted to the EPA in writing by the owner or operator prior to the date by which retesting is required. The request shall specify the reason why the extension is needed and include an alternative retest schedule. The EPA Regional office shall grant the request for extension if the EPA finds that one or more of the special conditions in this section apply. If the EPA grants an extension, the owner or operator shall implement the alternative retest schedule. A requested extension shall not be effective unless the EPA has given written approval of this extension. [PSD-ML-2711500031-2017-03, Section 5]

m. Agency tests. Upon request of the EPA, the owner or operator of an emission facility shall allow the EPA or any authorized employee or agent of the EPA, to enter upon the premises of the owner or operator for purposes of conducting performance tests. The owner or operator shall provide performance testing facilities that enable the agency or its employees or agents to conduct performance tests, including: [PSD-ML-2711500031-2017-03, Section 5]

   1. Sampling ports adequate for the applicable test methods;
   2. Safe sampling platforms;
   3. Safe access to sampling platforms; and
   4. Utilities for sampling and testing equipment.

The owner or operator shall operate the emission facility at worst case conditions or other conditions as requested by the EPA and shall provide assistance in process monitoring and process material sampling as requested.

Recordkeeping and Reporting [40 C.F.R. Section 71.6(a)(3)]

5. The Permittee shall maintain the following records for EU001, EU002, and EU003:

   a. Flash file program and retard engine timing parameters. The Permittee shall maintain records, which include printouts of digital readouts, gauges, or meters, for times in which the flash file program #180-1736 is modified and any times in which any retard engine timing parameters have been changed. [PSD-ML-2711500031-2017-03, Section (4)(1)(m)]

   b. Other record keeping. The owner or operator shall maintain at the facility at which the permitted units are located a file containing the records specified below. The owner or operator shall retain all records at the facility location for at least five years following the creation of such record. Records which must be retained at this location include all calibration and maintenance records, all original recording for continuous monitoring instrumentation, and copies of all reports required by this permit. Records of all monitoring required by this permit, and information about the monitoring, include [PSD-ML-2711500031-2017-03, Section 7]:

      1. The aftercooler return water temperature, intake manifold pressure, and any changes to flash file program #180-1736 for EU001, EU002, and EU003;
      2. Hours of operation for EU001, EU002, and EU003;
      3. Performance test data and results;
      4. Reports of excess emissions;
      5. Changes requiring notification to the EPA under this Section;
      6. Calibration and maintenance records, original strip chart, or computer-based recordings;
      7. Sampling dates and times of sampling or measurement;
      8. The operating conditions that existed at the time of sampling or measurement;
      9. The date analyses were performed;
      10. The location where samples were taken;
      11. The company or entity that performed the sampling and analyses;
      12. The analytical techniques or methods used in the sampling and analysis;
      13. The results of the analysis; and
      14. Occurrence and duration of any startup, shutdown, or malfunction in the operation of EU001, EU002, and/or EU003 or the facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

c. Test reports. Within 45 days after completion of a set of tests, the owner or operator shall submit a copy of the results to the EPA. [PSD-ML-2711500031-2017-03, Section 5]

d. Low emission strategy. The Permittee shall certify that electronic controls are set for low emission strategy as required by Section II(B)(1)(b) through (g) in accordance with the requirements in Section II(E)(1)(b) of this permit. [PSD-ML-2711500031-2017-03, Section (4)(1)(o)]

e. Excess emissions. The owner or operator shall report all emissions or operations that exceed or deviate from Section II(A)(1)(a) and that present a potential threat to human health or safety as soon as possible, but no later than 48 hours, after discovery. [PSD-ML-2711500031-2017-03, Section 7]

f. Compliance certification report. The compliance certification shall be certified by the responsible official and shall include the following information (all quantities must be reported, even if zero): [PSD-ML-2711500031-2017-03, Section 8]

    1. The applicable requirement that is the basis of the certification;
    2. The method(s) used for determining the compliance status of the facility;
    3. Proof of whether compliance is continuous or intermittent;
    4. Facility Identification and Reporting Period- including the name of the company, facility name, location, permit number, and period of time covered by the report;
    5. The times in which the total 12-month rolling sum of operating hours (separately for each unit) within the applicable 12-month reporting period for EU001, EU002, and EU003 exceeded 800 hours per year based on a 12-month rolling sum;
    6. The results of any performance tests performed during the 12-month period for EU001, EU002, and EU003;
    7. Reports of any excess emissions, and include copies of any excess emissions reports;
    8. The times during the applicable 12-month reporting period in which the nitrogen oxides emissions rate for EU001, EU002, and EU003 exceeded the 37.44 lb/hr limit for each engine during any three-hour block average;
    9. The times during the applicable 12-month reporting period in which the nitrogen oxides emissions rate for EU001, EU002, and EU003 exceeded 14.98 tons per year per engine based on a 12-month rolling sum;
    10. The times during the applicable 12-month reporting period in which the nitrogen oxides emissions rate for EU001, EU002, and EU003 exceeded the 6.55 g/HP-per year per engine;
    11. Any times during the 12-month reporting period in which EU001, EU002, or EU003 operated without using turbochargers or aftercoolers. The compliance

certification shall state the reasons the turbochargers and aftercoolers were not used, and the actions taken to reduce nitrogen oxide emissions;

12. Any deviations from the specified control requirements;
13. Any changes to the facility in accordance with the requirements under Notification Requirement.
14. Any other facts as required by the EPA.

40 C.F.R. Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)

6. EU001, EU002, and EU003

a. Emissions and Operations Limitations

i. The Permittee shall meet the following operating limitations, except during periods of startup. [40 C.F.R. Section 63.6603(a), 40 C.F.R. Part 63 Subpart ZZZZ, Table 2b.2]:

a. The Permittee shall maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the performance test; and

b. The Permittee shall maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450°F and less than or equal to 1,350°F.

ii. The Permittee shall meet the following emission limitation, except during periods of startup. [40 C.F.R Section 63.6603(a), 40 C.F.R. Part 63, Subpart ZZZZ, Table 2b.2]

a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15% O_2; or

b. Reduce CO emissions by 70 percent or more.

iii. The Permittee shall use diesel fuel that meets the following requirements: [40 C.F.R Section 63.6604(a)],

a. The maximum sulfur content is 15 ppm maximum [40 C.F.R Section 80.510(c)(1)]

b. The minimum cetane index is 40 or the maximum aromatic content is 35 volume percent. [40 C.F.R Section 80.510(c)(2)]

iv. During periods of startup, the Permittee shall minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 C.F.R Section 63.6603(a), 40 C.F.R Section 63.6625(h), Table 2d]

b. Performance Testing Methods

i. The Permittee shall comply with the following performance test requirements for engines complying with the requirement to reduce CO emissions [40 C.F.R. Part 63 Subpart ZZZZ, Table 4.1]:

a. Permittee shall select the sampling port location and the number/location of traverse points at the inlet and outlet of the control device. For CO and O_2 measurement, ducts less than or equal to 6 inches in diameter may be sampled at a single point located at the duct centroid and ducts greater than 6 inches but less than 12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0 and 83.3% of the measurement line ("3-point long line"). If the duct is greater than 12 inches in diameter and the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 C.F.R. Part 60, Appendix A-1 the duct may be sampled at 3-point long line; otherwise, conduct the stratification testing and select sampling points according to Section 8.12 of Method 7E of 40 C.F.R. Part 60, Appendix A-4.

b. The Permittee shall measure O_2 at the inlet and outlet of the control device using Method 3, 3A, or 3b of 40 C.F.R. Part 60, Appendix A-2, or ASTM Method D6522-00. Measurements to determine O2 must be made at the same time as measurements for CO concentration.

c. The Permittee shall measure the CO at the inlet and outlet of the control device using ASTM Method D6522-00 or Method 10 of 40 C.F.R. Part 60, Appendix A-4. The CO concentration shall be at 15 percent O_2, dry basis.

ii. The Permittee shall comply with the following performance test requirements for engines complying with the requirement to limit the

concentration of CO in the stationary RICE exhaust [40 C.F.R. Part 63 Subpart ZZZZ, Table 4.3]:

a. The Permittee shall select the sampling port location and the number/location of traverse points at the exhaust of the stationary RICE. For CO, O2, and moisture measurement, ducts less than or equal to 6 inches may be sampled at a single point located at the duct centroid and ducts greater than 6 inches but less than 12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0 and 83.3% of the measurement line ("3-point long line"). If the duct is greater than 12 inches in diameter and the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 C.F.R. Part 60, Appendix A, the duct may be sampled at 3-point long line; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 C.F.R. Part 60 Appendix A. If using a control device, the sampling site must be located at the outlet of the control device.

b. The Permittee shall determine the O2 concentration of stationary RICE exhaust at the sampling port location using Method 3, 3A, or 3B of 40 C.F.R. Part 60, Appendix A-2, or ASTM Method D6522-00. Measurements to determine O2 must be made at the same time and location as the measurements for CO concentration.

c. The Permittee shall measure moisture content of the stationary RICE exhaust at the sampling port location using Method 4 of 40 C.F.R. Part 60, Appendix A-3, or Method 320 of 40 C.F.R. Part 63, Appendix A, or ASTM Method D6348-03. Measurements to determine moisture content must be made at the same time as the measurements for CO concentration.

d. Permittee shall measure CO at the exhaust of the stationary RICE using Method 10 of 40 C.F.R. Part 60, Appendix A-4, ASTM Method D6522-00, Method 320 of 40 C.F.R. Part 63 Appendix A, or ASTM Method D6348-03. CO concentration must be at 15 percent O2, dry basis. Results of this test consist of the average of three 1-hour or longer runs.

c. Performance Testing Interval

i. The Permittee shall conduct subsequent performance tests according to the following schedule: [40 C.F.R. Section 63.6615]

a. For each RICE that is not a limited use stationary RICE, the Permittee shall conduct subsequent performance tests every 8,760 hours or 3 years, whichever comes first.

d. Performance Testing Requirements

i. The Permittee shall conduct each performance test according to the requirements of this section. [40 C.F.R. Section 63.6620(a), (b)]

ii. The Permittee shall conduct three separate test runs for each performance test required by 40 C.F.R. Part 63 Subpart ZZZZ, as specified in 40 C.F.R. Section 63.7(e)(3). Each test run must last at least one hour, unless otherwise specified in 40 C.F.R. Part 63, Subpart ZZZZ. [40 C.F.R. Section 63.6620(d)]

iii. The Permittee shall use the following equation to determine compliance with the CO percent reduction requirement:

$$\frac{(C_i - C_O)}{C_i} * 100 = R$$

Where C_i is the concentration of CO at the control device inlet, C_O is the concentration of CO at the control device outlet, and R is the percent reduction of CO emissions. [40 C.F.R. Section 63.6620(e)(1)]

iv. The Permittee shall normalize the CO concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO_2). If pollutant concentrations are to be corrected to 15 percent oxygen and CO_2 concentration is measured in lieu of oxygen concentration measurement, a CO_2 correction factor is needed. The Permittee shall calculate the CO_2 correction factor as described in 40 C.F.R. Section 63.6620(e)(2)(i)-(iii). [40 C.F.R. Section 63.6620(e)(2)]

v. The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the Notification of Compliance Status. The following information must be included in the written report [40 C.F.R. Section 63.6620(i)]:

a. The engine model number;
b. The engine manufacturer;
c. The year of purchase;
d. The manufacturer's site-rated brake horsepower;
e. The ambient temperature, pressure, and humidity during the performance test;

f. All assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained; and
g. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accuracy in percentage of true value must be provided.

e. Continuous Parameter Monitoring System (CPMS) Requirements

i. The Permittee shall install, operate, and maintain each CPMS in accordance with the requirements paragraphs of this section. [40 C.F.R. Section 63.6625(b)]

ii. The Permittee shall prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in this condition and in 40 C.F.R. Section 63.8(d). As specified in 40 C.F.R. Section 63.8(f)(4), the Permittee may request approval of monitoring system quality assurance and quality control procedures alternative to those listed in this section. The site-specific monitoring plan shall contain the following elements:

a. The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;

b. Sample interface (e.g. thermocouple) location such that the monitoring system will provide representative measurements;

c. Equipment performance evaluations, system accuracy audits, or other audit procedures;

d. Ongoing operation and maintenance procedures in accordance with provisions in 40 C.F.R. Section 63.8(c)(1)(ii) and (c)(3); and

e. Ongoing reporting and recordkeeping procedures in accordance with provisions in 40 C.F.R. Section 63.109(c), (e)(1), and (e)(2)(i).

iii. The Permittee shall install, operate, and maintain each CPMS in continuous operation according to the procedures in the site-specific monitoring plan. [40 C.F.R. Section 63.6625(b)(2)]

iv. The CPMS must collect data at least once every 15 minutes. [40 C.F.R. Section 63.6625(b)(3)]

v. For a CPMS measuring temperature range, the temperature sensors must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger. [40 C.F.R. Section 63.6625(b)(4)]

vi. The Permittee shall conduct equipment performance evaluation, system accuracy audits, or other audit procedures specified in the site-specific monitoring plan at least annually. [40 C.F.R. Section 63.6625(b)(5)]

vii. The Permittee shall conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan. [40 C.F.R. Section 63.6625(b)(6)]

f. Crankcase Requirements

i. The Permittee shall install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere. The Permittee shall follow the manufacturer's specified maintenance requirements for operating and maintaining the closed crankcase ventilation system. [40 C.F.R. Section 63.6625(g)]

g. Monitoring Requirements

i. Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the Permittee shall monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, frequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. [40 C.F.R. Section 63.6635(b)]

ii. The Permittee may not use data record during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The Permittee shall use all the valid data collected during all other periods. [40 C.F.R. Section 63.6635(c)]

iii. For each stationary RICE complying with the requirement to reduce CO emissions or limit CO concentration in the exhaust using oxidation catalyst this is not a limited use stationary RICE, the Permittee shall demonstrate continuous compliance with the following [40 C.F.R. Section 63.6640(a)]:

a. The Permittee shall conduct a performance test every 8,760 hours or 3 years, whichever comes first, for CO to demonstrate that the

required CO percent reduction is achieved or that emissions remain at or below the CO concentration limit [40 C.F.R. Part 63 Subpart ZZZZ, Table 6.10.i];

b. The Permittee shall collect the catalyst inlet temperature data according to 40 C.F.R. Section 63.6625(b) [40 C.F.R. Part 63, Subpart ZZZZ, Table 6.10.ii]

c. The Permittee shall reduce these data to 4-hour rolling averages [40 C.F.R. Part 63, Subpart ZZZZ, Table 6.10. iii];

d. The Permittee shall maintain the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature [40 C.F.R. Part 63, Subpart ZZZZ, Table 6.10.iv]; and

e. The Permittee shall measure the pressure drop across the catalyst once per month and demonstrate that the pressure drop across the catalyst is within the operating limitation established during the performance test. [40 C.F.R. Part 63, Subpart ZZZZ, Table 6.10.v]

h. Notifications

i. The Permittee shall submit all notifications required in 40 C.F.R. Section 63.7(b) and (c); 63.8(e), (f)(4) and (f)(6); and 63.9(b) through (e), (g), and (h) that apply to the facility [40 C.F.R. Section 63.6645(a)].

ii. The Permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 C.F.R. Section 63.7(b)(1) [40 C.F.R. Section 63.6645(g)].

iii. The Permittee shall submit a Notification of Compliance Status, according to 40 C.F.R. Section 63.9(h)(2)(ii) [40 C.F.R. Section 63.6645(h)].

i. Reporting

i. The Permittee shall submit semiannual or annual compliance reports and performance test reports electronically using the 40 C.F.R. Section Part 63, Subpart ZZZZ specific reporting form in the Compliance and Emissions Data Reporting Interface that is accessed through EPA's Central Data Exchange (www.epa.gov/cdx) as required in 40 C.F.R. Section 63.6650(i). However, if the reporting form specific to 40 C.F.R. Section Part 63, Subpart ZZZZ is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 C.F.R 63.13. [40 C.F.R Part 63.6650(a), (h)]

ii. The Permittee shall prepare a compliance report. The compliance report shall contain the following [40 C.F.R. Section 63.6650(a), 40 C.F.R. Part 63, Subpart ZZZZ, Table 7.1]:

a. If there are no deviations from any emission limitations or operating limitations, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period.

b. If there were no periods during which the CPMS was out of control, as specified in 40 C.F.R. Section 63.8(c)(7), a statement that there were not periods during which the CPMS was out of control during the reporting period.

c. If the facility experienced a deviation from any emission limitation or operating limitation during the reporting period, the information required in 40 C.F.R. Section 63.6650(d).

d. If there were periods during which the CPMS was out of control, as specified in 40 C.F.R Section 63.8(c)(7), the information required in 40 C.F.R. Section 63.6650(e).

e. If there were malfunctions during the reporting period, the information required in 40 C.F.R. Section 63.6650(c)(4).

iii. For engines that are not limited use stationary RICE, the Permittee shall submit a compliance report semiannually according to the following schedule [40 C.F.R. Section 63.6650(b)]:

a. The first semiannual compliance report shall cover the period beginning on January 1, 2016 and ending on June 30, 2016 and shall be postmarked or delivered no later than July 31, 2016. [40 C.F.R. Section 63.6650(b)(1), (b)(2)]

b. Each subsequent semiannual compliance report shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Subsequent semiannual compliance reports shall be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. [40 C.F.R. Section 63.6650(b)(3), (b)(4)]

c. For each stationary RICE, if the Permittee has established dates for submitting semiannual reports pursuant to 40 C.F.R. Section 71.6 (a)(3)(iii)(A), the Permittee may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(i) through (b)(iii) of this section. [40 C.F.R. Section 63.6650(b)(5)]

iv. The compliance report must contain the following information [40 C.F.R. Section 63.6650(c)]:

a. Company name and address;

b. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report;

c. Date of report and beginning and ending dates of the reporting period;

d. If the facility had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with 40 C.F.R. Section 63.6605(b), including actions taken to correct a malfunction;

e. If there are no deviations from any emission or operating limitations that apply, a statement that there were no deviations from the emission or operating limitations during the reporting period; and

f. If there were no periods during which the continuous monitoring system, including CEMs and CPMS, was out of control, as specified in 40 C.F.R. Section 63.8(c)(7), a statement that there were no periods during which the CMS was out of control during the reporting period.

v. For each deviation from an emission or operating limitation occurring for a stationary RICE where a CMS is used to comply with the emission and operating limitations in 40 C.F.R. Part 63, Subpart ZZZZ, the Permittee shall include the following information [40 C.F.R. Section 63.6650(e)]:

a. The date and time that each malfunction started and stopped;

b. The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks;

c. The date, time, and duration that each CMS was out of control, including the information in 40 C.F.R. Section 63.8(c)(8);

d. The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period;

e. A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during the reporting period;

f. A breakdown of the total duration of the deviations during reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes;

g. A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period;

h. An identification of each parameter and pollutant that was monitored at the stationary RICE;

i. A brief description of the stationary RICE;

j. A brief description of the CMS;

k. The date of the latest CMS certification or audit; and

l. A description of any changes in CMS, processes, or controls since the last reporting period.

vi. The Permittee shall report all deviations as defined in 40 C.F.R. Part 63, Subpart ZZZZ in the semiannual monitoring report required by 40 C.F.R. Section 71.6(a)(3)(iii)(A). If an affected source submits a compliance report with, or as part of, the semiannual monitoring report required by 40 C.F.R. Section 71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any emission or operating limitation in 40 C.F.R. Section 71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any emission or operating limitation in 40 C.F.R. Part 63, Subpart ZZZZ, submission of the compliance

report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to EPA. [40 C.F.R. Section 63.6650(f)]

j. Recordkeeping Requirements

i. The Permittee shall keep the following records [40 C.F.R. Section 63.6655(a)]:

a. A copy of each notification and report the Permittee submitted to comply with 40 C.F.R. Part 63, Subpart ZZZZ, including all documentation supporting any Initial Notification of Compliance Status that the Permittee submitted, according to the requirement in 40 C.F.R. Section 63.10(b)(2)(xiv);

b. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment;

c. Records of performance tests and performance evaluations as required in 40 C.F.R. Section 63.10(b)(2)(viii);

d. Records of all required maintenance performed on the air pollution control and monitoring equipment; and

e. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 C.F.R. Section 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

ii. For each CPMS, the Permittee shall keep the following records:

a. Records described in 40 C.F.R. Section 63.10(b)(2)(vi) through (xi);

b. Previous (i.e. superseded) versions of the performance evaluation plan as required in 40 C.F.R. Section 63.8(d)(3); and

c. Requests for alternatives to the relative accuracy test for CPMS as required in 40 C.F.R. Section 63.8(f)(6)(i), if applicable.

iii. The Permittee shall keep all records required in 40 C.F.R. Part 63, Subpart ZZZZ, Table 6 to show continuous compliance with each emission or operating limitation. [40 C.F.R. Section 63.6655(d)]

iv. The Permittee shall keep records of the maintenance conducted on the stationary RICE according to the Permittee's maintenance plan. [40 C.F.R. Section 63.6655(e)]

v. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 C.F.R. Section 63.10(b)(1). [40 C.F.R. Section 63.6660(a)]

vi. The Permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 C.F.R. Section 63.6660(b)]

vii. The Permittee shall keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 C.F.R. Section 63.10(b)(1). [40 C.F.R. 63.6660(c)]

7. EU004 and EU005

a. Emission and Operating Limitations

i. The Permittee shall change the oil and filter on each unit every 500 hours of operation or annually, whichever comes first. [40 C.F.R. Section 63.6603(a), 40 C.F.R. Part 63, Subpart ZZZZ, Table 2d.4]

ii. The Permittee shall inspect the air cleaner on each unit every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 C.F.R. Section 63.6603(a), 40 C.F.R. Part 63, Subpart ZZZZ, Table 2d.4]

iii. The Permittee shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 C.F.R. Section 63.6603(a), 40 C.F.R. Part 63, Subpart ZZZZ, Table 2d.4]

iv. During periods of startup, the Permittee shall minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 C.F.R. Section 63.6603(a), 40 C.F.R. Section 63.6625(h), Table 2d]

v. The Permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emissions-

related written instructions. If none exist, the Permittee shall develop a maintenance plan which must provide, to the extent practicable, for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 C.F.R. Section 63.6625(e), and 63.6640(a), 40 C.F.R. Part 63, Subpart ZZZZ, Table 6.9]

vi. The Permittee shall install a non-resettable hour meter if one is not already installed. [40 C.F.R. Section 63.6625(f)]

vii. The Permittee may utilize an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency specified for changing the oil. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The compliance limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent of the from the viscosity of the oil when new, or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, which is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 C.F.R. Section 63.6625(i)]

viii. The Permittee shall operate emergency stationary RICE according to the requirements listed in this section. In order for the engine to be considered an emergency, stationary RICE under 40 C.F.R. Part 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as listed in this section, is prohibited. Emergency engines that do not operate according to the requirements in this section will not be considered an emergency engine under 40 C.F.R. Part 63, Subpart ZZZZ and must meet all requirements for non-emergency engines. [40 C.F.R. Section 63.6640(f)]

a. There is no time limit on the use of emergency stationary RICE in emergency situations. [40 C.F.R. Section 63.6640(f)(1)]

b. The Permittee may operate the emergency stationary RICE for any combination of purposes specified below, for a maximum of 100 hours per calendar year. Any operation of non-emergency situations as allowed by 40 C.F.R. Section 63.6640(f)(4) counts as part of the 100 hours allowed per calendar year. [40 C.F.R. Section 63.6640(f)(2)]

    1. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization, or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition EPA for approval for additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that the federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 C.F.R. Section 63.6640(f)(2)(i)]

c. The Permittee may operate the emergency stationary RICE for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in 40 C.F.R. Section 63.6640(f)(2)(i). The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity except as provided in 40 C.F.R. Section 63.6640(f)(4)(ii). The 50 hours per year for nonemergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met [40 C.F.R. Section 63.6640(f)(4)]:

    1. The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

    2. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

    3. The dispatch follows reliability, emergency operation or similar protocols that follow specific North American Electric

Reliability Corporation, regional, state, public utility commission or local standards or guidelines.

4. The power is provided only to the facility itself or to support the local transmission and distribution system.

5. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

b. Recordkeeping Requirements

i. The Permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the Permittee has operated and maintained in the stationary RICE and after-treatment control device (if any) according to the Permittee's maintenance plan. [40 C.F.R. Section 63.6655(e)]

ii. The Permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 C.F.R. Section 63.6655(f)]

8. General Compliance Requirements

a. The Permittee shall be in compliance with the emission limitations, operating limitations, and other requirements of 40 C.F.R. Part 63, Subpart ZZZZ that apply to the facility at all times. [40 C.F.R. Section 63.6605(a)]

b. The Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimized emissions at all times. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by 40 C.F.R. Part 63, Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to EPA which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 C.F.R. Section 63.6605(a)]

9. General Reporting Requirements

a. The Permittee shall report each deviation from the emission and operating limitations. Deviations are instances where an emission limitation or operating limitation is not met. These deviations must be reported according to the requirements of 40 C.F.R. Section 63.6650. If the Permittee changes the catalyst, the Permittee must reestablish the values of the operating parameters measured during the initial performance test. When reestablishing the values of the operating parameters, the Permittee must also conduct a performance test to demonstrate compliance with the emission limitation applicable to the stationary RICE. [40 C.F.R. Section 63.6640(b)]

b. The Permittee shall report each instance in which the Permittee did not meet the applicable requirements of 40 C.F.R Part 63, Subpart ZZZZ, Table 8. [40 C.F.R. 63.6640(e)]

c. The Permittee shall submit all of the notifications required in 40 C.F.R. Section 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (e), (g), and (h) that apply by the dates specified. [40 C.F.R. Section 63.6645(a)]