

**SECTION 121: REASONABLY AVAILABLE CONTROL TECHNOLOGY
 DETERMINATIONS FOR SPECIFIC MAJOR STATIONARY
 SOURCES IN THE 2015 8-HOUR OZONE NAAQS MODERATE
 NONATTAINMENT AREA HA 212**

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121.1 PURPOSE

- (a) Section 121 establishes and implements Reasonably Available Control Technology (RACT) requirements for existing major stationary sources of nitrogen oxide (NO_x) and/or volatile organic compounds (VOC) as required by Section 182(b)(2) of the Clean Air Act (Act) under Title 42, Section 7511a of the U.S. Code (42 U.S.C. 7511a).

121.2 APPLICABILITY

- (a) Section 121 applies to owners or operators of major stationary sources:
 - (1) That are existing major sources for NO_x and/or VOC, as defined in Section 12.3.2;
 - (2) That are located in Hydrographic Area (HA) 212 (Las Vegas Valley);
 - (3) That are affected sources that contain affected units, as defined in Section 121.3; and
 - (4) For which a case-by-case RACT analysis was conducted after EPA reclassified HA 212 to moderate nonattainment status for ozone.
- (b) Except as provided in paragraphs (1) and (2) of this section, once Section 121 RACT requirements have been implemented, the modification or reconstruction of an affected unit at an affected source will require an evaluation (or re-evaluation) of RACT for that unit. The affected source shall conduct this evaluation according to current Clark County RACT methodology, and the evaluation shall involve the whole unit, not just the modification. The only exceptions are:
 - (1) Any emissions units that are, or will be (because of a modification or reconstruction), subject to Lowest Achievable Emissions Rate (LAER) for NO_x and/or VOC.
 - (2) Modifications to or reconstruction of an emission unit that shall not cause its potential to emit (PTE) of NO_x and/or VOC to exceed 5 tons per year (tpy).
- (c) A requirement to comply with Section 121 does not exempt a stationary source from any other control technology requirements, including any preconstruction review RACT requirements under Sections 12.1, "Permit Requirements for Minor Sources," and 12.4, "Authority to Construct Application and Permit Requirements for Part 70 Sources," as well as any CTG RACT requirements in other Clark County Air Quality Regulations (AQRs). This may result in more than one RACT determination; if so,

each RACT determination shall be included in the resulting permit as a separate limitation unless the owner or operator demonstrates that compliance with one RACT (usually the most stringent) also demonstrates compliance with one or more of the other RACT determinations for that affected unit under all scenarios (i.e., under all levels of operation, with all types of raw materials and/or fuels, etc.), and the Control Officer approves.

121.3 DEFINITIONS

Unless the context requires otherwise, the following terms shall have the meanings set forth below for the purposes of this section. When a term is not defined, it shall have the meaning provided in Sections 0, 12.0–12.5, or 12.11 of the AQRs, Chapter 445B of the Nevada Revised Statutes (NRS), the Act, or common usage, in that order of priority.

“Affected source” means a major stationary source required to comply with major source RACT for NO_x and/or VOC under Section 121.

“Affected unit” means any existing emission unit at an affected source, as defined in Section 121, to which major source RACT applies.

1. For the purposes of Section 121, insignificant activities, as determined in Section 12.5, shall not be considered affected units. Also for the purposes of Section 121, no activities with a PTE greater than 2 tons per year of NO_x or VOC individually—with no threshold for a combination of pollutants—shall be eligible to be determined insignificant activities.

“Compliance certification” means a document submitted by a Responsible Official certifying compliance with the terms and conditions of an operating permit. It must include the identification of each permit term or condition the certification is based on, the method used for determining compliance, whether that method provided continuous data, any other material information, and compliance status. It must also identify each permit deviation during the certification period.

“Control Techniques Guidelines Reasonably Available Control Technology” (CTG RACT) means an AQR that implements RACT (including emissions limitations and, if applicable, work practice standards) for stationary sources in accordance with the CTGs issued by the Administrator under Section 108 of the Act (42 U.S.C. 7408), as required by Section 182(b)(2)(A) of the Act (42 U.S.C. 7511a).

“Emissions inventory report” means a report that includes the actual quantity of emissions from each permitted emissions unit along with the total calculated actual emissions from the entire source for the reporting period.

“Existing major stationary source” or “existing major source,” for the purposes of Section 121, means a stationary source that is defined in Section 12.3.2 as a major source for NO_x and/or VOC and began actual construction before January 5, 2023.

“Good combustion practices” (GCP) means operating an emission unit to maximize its energy output or thermal efficiency while maintaining optimized oxygen levels to assure complete combustion. Where GCP in a permit conflicts with manufacturer recommendations, the owner or operator shall follow the GCP in the permit.

“Good maintenance practices” (GMP) means maintenance of an emission unit in a manner that minimizes air pollution emissions. Where GMP in a permit conflicts with manufacturer recommendations, the owner or operator shall follow the GMP in the permit.

“Injection timing retardation” (ITR) means changing the timing so that fuel ignition happens later to reduce the maximum combustion temperature and pressure, which decreases NO_x formation.

“Major source RACT” means the RACT required by Section 182(b)(1)(A)(ii)(II) of the Act (42 U.S.C. 7511a) for existing major sources of NO_x and/or VOC in ozone nonattainment areas classified as moderate or higher. It differs from CTG RACT, which applies only to VOC emissions from emission units and activities for which EPA has published a CTG document. It also differs from RACT for preconstruction review for a new emission unit, which generally applies only to new sources and modifications to existing sources under Sections 12.1 and 12.4 of the AQRs.

“Quality assurance/quality control (QA/QC) procedure” or “QA procedure” means a procedure that includes the continuous emission monitoring system (CEMS) description, calibration checks, preventative maintenance, data recording and calculations, accuracy audits, and corrective action plan for malfunctions.

“Reasonably Available Control Technology” (RACT) means the lowest emissions limitation an affected unit is capable of meeting by applying control technology that is reasonably available, considering technological and economic feasibility.

“Relative Accuracy Test Audit” (RATA) means a test procedure consisting of at least nine test runs, in which the accuracy of the concentrations measured by a CEMS is evaluated by comparison against concurrent measurements made with a reference method. Relative accuracy tests repeated on a regular, on-going basis are referred to as relative accuracy test audits or RATAs.

121.4 GENERAL CONDITIONS

- (a) Affected units subject to Section 121 are identified by emission unit (EU) numbers and described in Attachment 1.
- (b) Affected sources subject to Section 121 are identified by source identification (ID) number.
- (c) Owners or operators of a stationary source subject to Section 121 shall comply with the major source RACT requirements of Section 121 for all affected units.

121.5 NEVADA ENERGY—CLARK GENERATING STATION (SOURCE ID: 00007)

121.5.1 RACT Control Requirements

The owner or operator shall implement the following RACT controls.

- (a) For Unit 4 (EU: A00704D):
 - (1) NO_x emissions shall be limited to an emissions rate of 120 ppm at 15% O₂, excluding startup and shutdown.
 - (2) VOC emissions shall be limited to an emissions rate of 21.6 lb/hr, excluding startup and shutdown.
 - (3) The unit shall be determined compliant in accordance with GCP, operated and maintained using GCP, to include operating the unit in accordance with the manufacturer's O&M manual.
- (b) For Units 5–8 (EUs: A00701A, A00702B, A00705, A00708):
 - (1) NO_x emissions shall be limited to an emission rate of 5 ppm at 15% O₂, excluding startup and shutdown.
 - (2) NO_x emissions shall be limited to an emissions rate of 75 parts per million by volume, dry (ppmvd) at 15% O₂ during startup and shutdown operations.
 - (3) VOC emissions shall be limited to an emission rate of 5.0 lb/hr, excluding startup and shutdown operations.
 - (4) The units shall be determined to be compliant using the existing continuous emission monitoring system (CEMS) on each one.
 - (5) The units shall be operated and maintained using GCP during startup, shutdown, and other non-normal operations, to include operating the units in accordance with the manufacturer's O&M manual.
- (c) For Units 11-22 (EU: A27-A38):
 - (1) NO_x emissions shall be limited to an emission rate of 5 ppm at 15% O₂, excluding startup and shutdown.
 - (2) NO_x emissions shall be limited to an emissions rate of 96 ppmvd at 15% O₂ during startup and shutdown.
 - (3) VOC emissions shall be limited to an emissions rate of 1.49 lb/hr, excluding startup and shutdown.

- (4) The units shall be determined to be compliant using the existing continuous emission monitoring system (CEMS) on each one.
- (5) The units shall be operated and maintained using GCP during startup, shutdown, and other non-normal operations, to include operating the units in accordance with the manufacturer's O&M manual.

121.5.2 RACT Monitoring Requirements

- (a) For all emission units, the owner or operator shall:
 - (1) Monitor the occurrences and durations of startup/shutdown cycles; and
 - (2) Demonstrate compliance with NO_x emissions limits.
- (b) For Units 5–8 (EUs: A00701A, A00702B, A00705, and A00708) and Units 11–22 (Peaker units, EUs: A27–A38):
 - (1) Install, calibrate, maintain, operate, and certify CEMS for NO_x;
 - (2) Require periodic audit procedures and QA/QC procedures for the CEMS;
 - (3) Conduct RATA of the NO_x CEMS; and
 - (4) Monitor CEMS NO_x data.

121.5.3 RACT Recordkeeping and Reporting Requirements

For all emission units, the owner or operator shall:

- (a) Maintain records of required reporting, including records of all inspections, maintenance, and repairs;
- (b) Maintain records of hours of operation for the turbine generators;
- (c) For Units 5–8 (EUs: A00701A, A00702B, A00705, and A00708) and Units 11–22 (Peaker units, EUs: A27–A38) maintain records of the:
 - (1) QA/QC procedure;
 - (2) CEMS audit and calibration results, along with any corrective actions taken;
 - (3) Time, duration, nature, and probable cause of any CEMS downtime, and of any corrective actions taken;

- (4) CEMS NO_x data; and
- (5) Date, time, and duration of each startup and shutdown.
- (d) Submit an annual emissions inventory report; and
- (e) Submit an annual compliance certification.

121.6 CALNEV PIPE LINE—LAS VEGAS TERMINAL (SOURCE ID: 00013)

121.6.1 RACT Control Requirements

The owner or operator shall implement the following RACT controls.

- (a) For the storage tanks listed in Table 1, the owner or operator shall:
 - (1) Operate and maintain all according to the seal control requirements in the table; and
 - (2) Operate all in compliance with applicable federal regulations incorporated by reference in AQRs 13.3 and 14.2, as identified in the table.

Table 1. Seal Control Requirements

EU	Site Tank Number	Seal Control Requirements	Applicable Requirement(s) ¹
A01	530	External Floating Roof with primary and secondary seals	AQR 13.3
A02	531	External Floating Roof with primary and secondary seals	AQR 13.3
A03	532	External Floating Roof with primary and secondary seals	AQR 13.3
A04	533	External Floating Roof with primary and secondary seals	AQR 13.3
A05	534	External Floating Roof with primary and secondary seals	AQR 13.3
A06	535	External Floating Roof with primary and secondary seals	AQR 13.3
A07	536	External Floating Roof with primary and secondary seals	AQR 13.3
A08	537	External Floating Roof with primary and secondary seals	AQR 13.3
A09	538	External Floating Roof with primary and secondary seals	AQR 13.3
A10	539	External Floating Roof with primary and secondary seals	AQR 13.3
A23	510	External Floating Roof with primary seal	N/A
A24	511	External Floating Roof with primary seal	N/A
A11	540	Internal Floating Roof with primary and secondary seals	AQR 13.3
A13	524	Internal Floating Roof with primary and secondary seals	AQR 13.3
A16	545	Internal Floating Roof with primary and secondary seals	AQR 13.3 AQR 14.2
A17	546	Internal Floating Roof with primary and secondary seals	AQR 13.3 AQR 14.2

EU	Site Tank Number	Seal Control Requirements	Applicable Requirement(s) ¹
A21	547	Internal Floating Roof with primary and secondary seals	AQR 13.3 AQR 14.2
A27	501	Internal Floating Roof with primary and secondary seals	N/A
A28	523	Internal Floating Roof with primary and secondary seals	AQR 13.3
A29	544	Internal Floating Roof with primary and secondary seals	AQR 13.3 AQR 14.2
A47	550	Internal Floating Roof with primary and secondary seals	AQR 13.3
A48	551	Internal Floating Roof with primary and secondary seals	AQR 13.3
A56	513	Internal Floating Roof with primary and secondary seals	N/A
A14	542	Internal Floating Roof with primary seal	N/A
A15	543	Internal Floating Roof with primary seal	N/A
A12	541	Domed External Floating Roof with primary and secondary seals	AQR 13.3
A45	548	Domed External Floating Roof with primary and secondary seals	AQR 13.3
A46	549	Domed External Floating Roof with primary and secondary seals	AQR 13.3
A19	525	Fixed Roof	N/A
A20	526	Fixed Roof	N/A
A22	512	Fixed Roof	N/A
A25	ASA Con- ductivity Improver	Fixed Roof	N/A
A26	500 AIA	Fixed Roof	N/A
A30	533 A	Fixed Roof	N/A
A31	537 A	Fixed Roof	N/A
A32	541 A	Fixed Roof	N/A
A33	541 B	Fixed Roof	N/A
A34	542 D	Fixed Roof	N/A
A35	542 A	Fixed Roof	N/A
A36	531 A	Fixed Roof	N/A
A37	542 C	Fixed Roof	N/A
A38	537 B	Fixed Roof	N/A
A39	531 B	Fixed Roof	N/A
A53	548 B	Fixed Roof	N/A
A54	548 A	Fixed Roof	N/A

¹ Some tanks may not have an applicable requirement due to construction year, tank size, and/or product stored.

(b) The owner or operator shall operate the loading racks (EU: B01):

- (1) With a vapor recovery unit (VRU) (EU: B02) during loading;
 - (2) With a flare (EU: B10) as backup if the VRU is inoperable; and
 - (3) In compliance with tanker loading requirements to minimize leaks, spills, and fugitive emissions.
- (c) The owner or operator shall operate and maintain the soil vapor extraction and groundwater treatment system (EU: SR04):
- (1) Using a control device capable of 98.5% VOC destruction efficiency;
 - (2) Using only propane as the auxiliary fuel;
 - (3) At a temperature specified by the manufacturer; and
 - (4) In accordance with the manufacturer's O&M manual.
- (d) The owner or operator shall operate the vapor-phase carbon adsorber (Fluidized Bed Reactor) such that it demonstrates a minimum control efficiency of 95% or a maximum outlet VOC emissions concentration of 100 parts per million volume (ppmv).

121.6.2 RACT Monitoring Requirements

The owner or operator shall:

- (a) Visually inspect and monitor all storage tanks listed in Table 1 for throughput volume;
- (b) Monitor the loading racks (EU: B01) for throughput;
- (c) For the VRU (EU: B02):
 - (1) Install, calibrate, maintain, operate, and certify the CEMS for VOC;
 - (2) Require QA procedures for the CEMS;
 - (3) Conduct a RATA of the VOC CEMS;
 - (4) Monitor CEMS VOC data; and
 - (5) Demonstrate compliance with VOC emissions limits.
- (d) For fugitive components (EU: B06):
 - (1) Monitor for leaks; and

- (2) Inspect daily for leaks (e.g., by sight, sound, and/or smell).
- (e) Monitor the flare (EU: B10) and visually inspect flame quality; and
- (f) Monitor the soil vapor extraction and groundwater treatment system (EU: SR04) for use of auxiliary fuel.

121.6.3 RACT Testing Requirements

The owner or operator shall:

- (a) Conduct subsequent performance testing every five years (EUs: B02 and SR04) after the initial performance test;
- (b) Conduct a performance test when a combustion unit is operated for either the soil vapor extraction or the groundwater treatment system (EU: SR04); and
- (c) Determine compliance with emissions limitations (EUs: B02 and SR04).

121.6.4 RACT Recordkeeping and Reporting Requirements

The owner or operator shall:

- (a) Maintain records of hours of operation for the flare (EU: B10);
- (b) For the VRU (EU: B02), maintain records of:
 - (1) QA procedures;
 - (2) CEMS audit and calibration results, along with any corrective actions taken;
 - (3) The time, duration, nature, and probable cause of any CEMS downtime, and of any corrective actions taken; and
 - (4) CEMS VOC data.
- (c) Submit performance test reports;
- (d) Submit an annual emissions inventory report; and
- (e) Submit an annual compliance certification.

121.7 NELLIS AIR FORCE BASE (SOURCE ID: 00114)

121.7.1 RACT Control Requirements

The owner or operator shall implement the following RACT controls.

- (a) The owner or operator shall operate and maintain the continuous-duty engine (EU: A032):
 - (1) With a turbocharger and ITR;
 - (2) In compliance with the emissions limits and requirements of federal regulations incorporated by reference in AQR 14.2; and
 - (3) Using GCP and GMP, to include operating the units in accordance with the manufacturer's operations and maintenance (O&M) manual.
- (b) The owner and operator shall operate and maintain the emergency engines (EUs: G009, G010, G032, G033, G041, and G176):
 - (1) With turbochargers and aftercoolers; and
 - (2) Using GCP and GMP, to include operating the units in accordance with the manufacturer's O&M manual.
- (c) The owner or operator shall operate and maintain the aircraft engine test cells (EUs: N001 and N002) using GCP and GMP, to include operating the units in accordance with the manufacturer's O&M manual.

121.7.2 RACT Monitoring, Recordkeeping, and Reporting Requirements

The owner or operator shall:

- (a) Monitor and record the hours of operation of each engine;
- (b) Maintain records of required reporting, including records of all inspections, maintenance, and repairs;
- (a) Submit an annual emissions inventory report; and
- (b) Submit an annual compliance certification.

121.8 CAESARS ENTERTAINMENT (SOURCE ID: 00257)

121.8.1 RACT Control Requirements

The owner or operator shall implement the following RACT controls.

- (a) The owner or operator shall operate and maintain the emergency engines listed in Table 2:
 - (1) With turbochargers and aftercoolers, as identified in the table;

- (2) In compliance with the emissions limits and requirements of federal regulations incorporated by reference in AQR 14.2, as identified in the table; and
- (3) Using GCP and GMP, to include operating the units in accordance with the manufacturer's O&M manual.

Table 2. Emergency Engine Equipment and Regulatory Requirements

EU	Equipment		Applicable Requirement AQR 14.2
	Turbocharger	Aftercooler	
CP13	X	X	—
CP14	X	X	—
CP15	X	X	—
CP16	X	X	—
CP17	X	X	—
CP28	X	X	X
CP29	X	X	X
PA17	X	X	—
PA18	X	X	—
IP08	X	X	—
IP09	X	X	—
PH10	X	X	—
PH11	X	X	—
PH12	X	X	—
PH13	X	X	X
LI06	X	X	—
LI07	X	X	—
HA13	X	—	—
HA14	X	X	—
HA18	X	X	—
FL09	X	X	—
FL10	X	X	—
BA04	X	X	—
BA05	X	X	—
BA11	X	X	—
BA12	X	X	—
CR07	X	X	X

- (b) The owner or operator shall operate and maintain all boilers (EUs: CP01–CP05) using GCP and GMP, to include operating the units in accordance with the manufacturer's O&M manual, and:

- (1) Ensure EUs: CP01 and CP02 are operated and maintained with burners that have a manufacturer's maximum emissions concentration of 29 ppm NO_x, corrected to 3% oxygen.
- (2) Ensure EUs: CP03, CP04, and CP05 are operated and maintained with burners that have a manufacturer's maximum emissions concentration of 30 ppm NO_x, corrected to 3% oxygen.

121.8.2 RACT Testing Requirements

The owner or operator shall:

- (a) Conduct a burner efficiency test on each boiler (EUs: CP01–CP05);
- (b) Conduct a performance test on each boiler once every five years (EUs: CP01–CP05); and
- (c) Determine compliance with emissions limitations (EUs: CP01–CP05).

121.8.3 RACT Monitoring, Recordkeeping, and Reporting Requirements

The owner or operator shall:

- (a) Monitor and maintain records of the hours of operation of each engine;
- (b) Maintain records of required reporting, including records of all inspections, maintenance, and repairs;
- (c) Maintain records of each burner efficiency test result;
- (d) Maintain records of performance test results;
- (e) Submit performance test reports;
- (f) Submit an annual emissions inventory report; and
- (g) Submit an annual compliance certification.

121.9 SAGUARO POWER COMPANY (SOURCE ID: 00393)

121.9.1 RACT Control Requirements

The owner or operator shall implement the following RACT controls.

- (a) The owner or operator shall, for the turbine generator (EUs: A01 and A02), including duct burners (EUs: F05, F05a, F06, and F06a):
 - (1) Limit NO_x emissions to 10 ppmvd at 15% O₂, excluding startup and shutdown;

- (2) Limit NO_x emissions to an emissions rate of 66 lb/hr during startup and shutdown; and
 - (3) Operate and maintain the units using GCP during startup, shutdown, and other non-normal operations, to include operating the units in accordance with the manufacturer's O&M manual.
- (b) The owner and operator shall operate and maintain the auxiliary boilers #1 and #2 (EUs: A05 and A06) using GCP during startup, shutdown, and other non-normal operations, to include operating the unit in accordance with the manufacturer's O&M manual, and:
- (1) Limit NO_x emissions from EU: A05 to 12 ppmvd at 3% O₂, excluding startup and shutdown operations; and
 - (2) Limit NO_x emissions from EU: A06 to 30 ppmvd at 3% O₂, excluding startup and shutdown operations.

121.9.2 RACT Monitoring Requirements

The owner or operator shall:

- (a) For the turbine generators (EUs: A01–A02) and auxiliary boiler #1 (EU: A05):
 - (1) Install, calibrate, maintain, operate, and certify CEMS for NO_x;
 - (2) Require periodic audit procedures and QA/AC procedures for the CEMS;
 - (3) Conduct RATA of the NO_x CEMS;
 - (4) Monitor CEMS NO_x data;
 - (5) Monitor the occurrences and durations of startup/shutdown cycles; and
 - (6) Demonstrate compliance with NO_x emissions limits.
- (b) Monitor the hours of operation of the auxiliary boiler #2 (EU: A06).

121.9.3 RACT Testing Requirements

After initial performance testing, the owner or operator shall:

- (a) Conduct a burner efficiency test on each boiler (EUs: A05 and A06);
- (b) Conduct a subsequent performance test on the boiler (EU: A06) every five years; and

- (c) Determine compliance with emissions limitations (EU: A05 and A06).

121.9.4 RACT Recordkeeping and Reporting Requirements

The owner or operator shall:

- (a) Maintain records of required reporting, including records of all inspections, maintenance, and repairs;
- (b) Maintain records of the date, time, and duration of each startup and shut-down cycle of each turbine generator and auxiliary boiler;
- (c) Maintain records of the quantity of combined fuel input of natural gas, along with hydrogen fuel if applicable for the auxiliary boiler #1 (EU: A05);
- (d) Maintain records of hours of operation and quantity of natural gas fuel input for the auxiliary boiler #2 (EU: A06);
- (e) Maintain records of each burner efficiency test result;
- (f) Maintain records of performance test results;
- (g) For the stationary gas turbines (EUs: A01 and A02) and auxiliary boiler #1 (EU: A05) maintain records of:
 - (1) QA/QC procedure;
 - (2) CEMS audit and calibration results, along with any corrective actions taken;
 - (3) The time, duration, nature, and probable cause of any CEMS downtime, and of any corrective actions taken; and
 - (4) CEMS VOC and NOx data.
- (h) Submit performance test reports;
- (i) Submit an annual emissions inventory report; and
- (j) Submit an annual compliance certification.

121.10 NEVADA ENERGY—SUN PEAK GENERATING STATION (SOURCE ID: 00423)

121.10.1 RACT Control Requirements

The owner or operator shall implement the following RACT controls for Units 3–5 (EUs: A01–A03):

- (a) Limit NO_x emissions to an emissions rate of 42 ppm at 15% O₂ while burning natural gas fuel, excluding startup and shutdown;
- (b) Limit NO_x emissions to an emissions rate of 65 ppmvd at 15% O₂ while burning #2 diesel fuel, excluding startup and shutdown;
- (c) Limit NO_x emissions to an emissions rate of 94 ppmvd at 15% O₂ while burning natural gas fuel during startup and shutdown;
- (d) Limit NO_x emissions to an emission rate of 227 lb/hr while burning #2 diesel fuel during startup and shutdown;
- (e) The units shall be determined to be compliant using the existing CEMS on each one; and
- (f) Operate and maintain the units in accordance with GCP during startup, shutdown, and other non-normal operations, to include operating the units in accordance with the manufacturer's O&M manual.

121.10.2 RACT Monitoring Requirements

The owner or operator shall:

- (a) Install, calibrate, maintain, operate, and certify CEMS for NO_x;
- (b) Require periodic audit procedures and QA/QC procedures for the CEMS;
- (c) Conduct RATA of the NO_x CEMS;
- (d) Monitor CEMS NO_x data;
- (e) Monitor the occurrences and durations of startup/shutdown cycles; and
- (f) Demonstrate compliance with NO_x emissions limits.

121.10.3 RACT Recordkeeping and Reporting Requirements

The owner or operator shall:

- (a) Maintain records of required reporting, including records of all inspections, maintenance, and repairs;
- (b) Maintain records of hours of operation for the turbine generators;
- (c) Maintain records of the date, time, and duration of each startup and shutdown cycle of each turbine generator;
- (d) For the turbine generators, maintain records of:

- (1) QA/QC procedure;
 - (2) CEMS audit and calibration results, along with any corrective actions taken;
 - (3) The time, duration, nature, and probable cause of any CEMS downtime, and of any corrective actions taken; and
 - (4) CEMS NO_x data.
- (e) Submit an annual emissions inventory report; and
 - (f) Submit an annual compliance certification.

121.11 MGM RESORTS INTERNATIONAL (SOURCE ID: 00825)

121.11.1 RACT Control Requirements

The owner or operator shall implement the following RACT controls.

- (a) The owner or operator shall operate and maintain the boilers (EUs: MG13 and MG14):
 - (1) With burners that have a manufacturer's maximum emissions concentration of 40 ppmv NO_x, corrected to 3% oxygen;
 - (2) Using only pipeline-quality natural gas; and
 - (3) Using GCP and GMP, to include operating the units in accordance with the manufacturer's O&M manual.
- (b) The owner or operator shall operate and maintain the emergency engines listed in Table 3:
 - (1) With turbochargers and aftercoolers, as identified in the table;
 - (2) In compliance with the emissions limits and requirements of federal regulations incorporated by reference in AQR 14.2, as identified in the table; and
 - (3) Using GCP and GMP, to include operating the units in accordance with the manufacturer's O&M manual.

Table 3. Emergency Engine Equipment and Regulatory Requirements: MGM Resorts

EU	Equipment		Applicable Requirement: AQR 14.2
	Turbocharger	Aftercooler	
MG17	X	X	—
MG18	X	X	—
MG19	X	X	—
MG20	X	X	—
MG21	X	X	—
MG22	X	X	—
MG23	X	X	—
MC019	X	X	—
MC020	X	X	—
MB061	X	X	—
MB062	X	X	—
MB063	X	X	—
MB066	X	X	—
MB067	X	X	—
MB093	X	X	—
EX007	X	Not required	—
EX008	X	Not required	—
EX009	X	Not required	—
EX010	X	Not required	—
BE80	X	X	—
BE81	X	X	—
BE82	X	X	—
BE83	X	X	—
BE84	X	X	—
BE85	X	X	—
BE86	X	X	—
BE87	X	X	—
BE88	X	X	—
LX009	X	X	—
LX010	X	X	—
LX011	X	X	—
LX024	X	X	X
LX025	X	X	X
NY27	X	Not required	—
NY28	X	Not required	—

EU	Equipment		Applicable Requirement: AQR 14.2
	Turbocharger	Aftercooler	
NY29	X	Not required	—
CC009	X	X	—
CC010	X	X	—
CC011	X	X	—
CC012	X	X	—
CC013	X	X	—
CC014	X	X	—
CC015	X	X	—
TBA15	X	X	X
TBB15	X	X	X
TM01	Not required	Not required	X

121.11.2 RACT Testing Requirements

The owner or operator shall:

- (a) Conduct a burner efficiency test on each boiler (EUs: MG13 and MG14);
- (b) Conduct a performance test on each boiler once every five years (EUs: MG13 and MG14); and
- (c) Determine compliance with emissions limitations (EUs: MG13 and MG14).

121.11.3 RACT Monitoring, Recordkeeping, and Reporting Requirements

The owner or operator shall:

- (a) Maintain records of required reporting, including records of all inspections, maintenance, and repairs;
- (b) For each boiler:
 - (1) Monitor and maintain records of the hours of operation;
 - (2) Monitor, maintain records of, and report the natural gas consumption of each one;
 - (3) Maintain records of burner efficiency test results; and
 - (4) Maintain records of performance test results.

- (c) Monitor and maintain records of hours of operation for the engines listed in Table 3;
- (d) Submit performance test reports;
- (e) Submit an annual emissions inventory report; and
- (f) Submit an annual compliance certification.

121.12 SWITCH—WEST CAMPUS (SOURCE ID: 16304)

121.12.1 RACT Control Requirements

The owner or operator shall implement the following RACT controls.

- (a) The owner or operator shall operate and maintain the engines (EUs: A02–A29; A32–A34; C01–C24; G01–G24; E01–E18; J01–J19; and L01–L02):
 - (1) With turbochargers and aftercoolers, except EU: J19;
 - (2) In compliance with the emissions limits and requirements of federal regulations incorporated by reference in AQR 14.2; and
 - (3) In accordance with the manufacturer’s O&M manual.

121.12.2 RACT Monitoring, Recordkeeping, and Reporting Requirements

The owner or operator shall:

- (a) Monitor and maintain records of hours of operation of each engine;
- (b) Monitor each engine for average NO_x emissions;
- (c) Submit an annual emissions inventory report; and
- (d) Submit an annual compliance certification.

ATTACHMENT 1

EU	Rating	Manufacturer	Model	Serial Number
NV Energy: Clark Generating Station (Source ID: 00007)				
A00704D (UNIT 4)	60 MW	General Electric	7B (7000)	N/A
A00701A (UNIT 5)	85 MW	Westinghouse	501B6	N/A
A00702B (UNIT 6)	85 MW	Westinghouse	501B6	N/A
A00705 (UNIT 7)	85 MW	Westinghouse	501B6	N/A
A00708 (UNIT 8)	85 MW	Westinghouse	501B6	N/A
A27 (UNIT 11)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
A28 (UNIT 12)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
A29 (UNIT 13)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
A30 (UNIT 14)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
A31 (UNIT 15)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
A32 (UNIT 16)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
A33 (UNIT 17)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
A34 (UNIT 18)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
A35 (UNIT 19)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
A36 (UNIT 20)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
A37 (UNIT 21)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
A38 (UNIT 22)	57.9 MW	Pratt & Whitney	FT8-3 Swift Pac	N/A
CalNev Pipe Line (Source ID: 00013)				
A01	11,200 bbl	N/A	N/A	N/A
A02	12,890 bbl	N/A	N/A	N/A
A03	8,080 bbl	N/A	N/A	N/A
A04	11,330 bbl	N/A	N/A	N/A
A05	8,080 bbl	N/A	N/A	N/A
A06	8,080 bbl	N/A	N/A	N/A
A07	17,550 bbl	N/A	N/A	N/A
A08	22,250 bbl	N/A	N/A	N/A
A09	11,330 bbl	N/A	N/A	N/A
A10	11,330 bbl	N/A	N/A	N/A
A11	16,320 bbl	N/A	N/A	N/A
A12	25,100 bbl	N/A	N/A	N/A
A13	18,000 bbl	N/A	N/A	N/A
A14	45,000 bbl	N/A	N/A	N/A
A15	35,000 bbl	N/A	N/A	N/A
A16	37,000 bbl	N/A	N/A	N/A
A17	40,000 bbl	N/A	N/A	N/A
A19	50,000 bbl	N/A	N/A	N/A

EU	Rating	Manufacturer	Model	Serial Number
A20	50,000 bbl	N/A	N/A	N/A
A21	50,000 bbl	N/A	N/A	N/A
A22	50,000 bbl	N/A	N/A	N/A
A23	40,000 bbl	N/A	N/A	N/A
A24	40,000 bbl	N/A	N/A	N/A
A25	1.3 bbl	N/A	N/A	N/A
A26	252 bbl	N/A	N/A	N/A
A27	4,000 bbl	N/A	N/A	N/A
A28	10,000 bbl	N/A	N/A	N/A
A29	11,000 bbl	N/A	N/A	N/A
A30	252 bbl	N/A	N/A	N/A
A31	464 bbl	N/A	N/A	N/A
A32	380 bbl	N/A	N/A	N/A
A33	380 bbl	N/A	N/A	N/A
A34	215 bbl	N/A	N/A	N/A
A35	143 bbl	N/A	N/A	N/A
A36	143 bbl	N/A	N/A	N/A
A37	12 bbl	N/A	N/A	N/A
A38	447 bbl	N/A	N/A	N/A
A39	119 bbl	N/A	N/A	N/A
A45	12,890 bbl	N/A	N/A	N/A
A46	12,890 bbl	N/A	N/A	N/A
A47	20,000 bbl	N/A	N/A	N/A
A48	10,100 bbl	N/A	N/A	N/A
A53	238 bbl	N/A	N/A	N/A
A54	238 bbl	N/A	N/A	N/A
A56	50,000 bbl	N/A	N/A	N/A
B01 (Loading Rack)	35,379,927 bbl per year	N/A	N/A	N/A
B02 (VRU)	N/A	John Zink	N/A	N/A
B06 (Piping and Fittings)	N/A	N/A	N/A	N/A
B10 (Flare)	N/A	N/A	N/A	N/A
SR04 (SVE/GW treatment)	N/A	N/A	N/A	N/A
Nellis Air Force Base (Source ID: 00114)				
A032	250 bhp	Cummins	M11	60425136
G009	1635 bhp	Mitsubishi	PS6	12588
G010	1350 bhp	Cummins	QST30-G3	37205939
G032	1586 bhp	Caterpillar	3512	24Z04351

EU	Rating	Manufacturer	Model	Serial Number
G033	1586 bhp	Caterpillar	3512	24Z04354
G041	1220 bhp	Cummins	KTA38-G3	33120700
G176	2220 bhp	Cummins	GKS50-G4NR2	TPD
N001	N/A	Custom Bldg	N/A	N/A
N002	N/A	Custom Bldg	N/A	N/A
Caesars Entertainment (Source ID: 00257)				
CP01	35.40 MMBtu/hr	Hurst	S4-G-800-150	S4000-150-18
CP02	35.40 MMBtu/hr	Hurst	S4-G-800-150	S4000-150-19
CP03	33.475 MMBtu/hr	Burnham	3P80050GBNM	12524
CP04	33.475 MMBtu/hr	Burnham	3P80050GBNM	12164
CP05	33.475 MMBtu/hr	Burnham	3P80050GBNM	12238
CP13	2,876 hp	Caterpillar	3516	8DM00558
CP14	2,876 hp	Caterpillar	3516	6HN00154
CP15	2,520 hp	Caterpillar	3516	25Z05223
CP16	1,818 hp	Caterpillar	3512	24Z06413
CP17	2,876 hp	Caterpillar	3516	6HN00199
CP28	2,937 hp	Caterpillar	3516CDITA	SBJ00672
CP29	2,937 hp	Caterpillar	3516CDITA	SBJ00673
PA17	2,816 hp	Cummins	CW73-G	66300058
PA18	2,816	Cummins	CW73-G	66300040
IP08	755 hp	Caterpillar	3412	81Z04033
IP09	890 hp	Caterpillar	3412	81Z08595
PH10	2,550 hp	MTU/Detroit Diesel	T1637K16	5272000427
PH11	2,550 hp	MTU/Detroit Diesel	T1637K16	5272000397
PH12	2,550 hp	MTU/Detroit Diesel	T1637K16	5272000421
PH13	2,560 hp	MTU/Detroit Diesel	T1238A36	5262003725
LI06	2,937 hp	Caterpillar	3516C	SBJ01461
LI07	2,937 hp	Caterpillar	3516C	SBJ01460
HA13	1,232 hp	Caterpillar	81637416	16VF007962
HA14	890 hp	Caterpillar	3412	81Z09924
HA18	1,180 hp	Caterpillar	3412	2WJ00740
FL09	1,109 hp	Caterpillar	3412	2WJ02570
FL10	1,109 hp	Caterpillar	3412	2WJ02570
BA04	1,340 hp	Detroit Diesel	9163-7305	16E0006591
BA05	1,340 hp	Detroit Diesel	9163-7305	16E0006592
BA11	1,340 hp	Detroit Diesel	7243-7406	24VA001710

EU	Rating	Manufacturer	Model	Serial Number
BA12	1,340 hp	Detroit Diesel	7243-7406	24VA001728
CR07	2,206 hp	Caterpillar	3512C	EBG01274
Saguaro Power Company (Source ID: 00393)				
A01	35 MW	General Electric	PG6541B	295525
A02	35 MW	General Electric	PG6541B	295524
A05	218 MMBtu/hr	Indeck/Volcano	0-7-2000	N/A
A06	86 MMBtu/hr	Nebraska	NOS 2A/S-55	032-88
F05 w/ A01	25 MMBtu/hr	John Zink	LDR-11-LE	S82733
F05a w/ A01	25 MMBtu/hr	John Zink	LDR-11-LE	S82733
F06 w/ A02	25 MMBtu/hr	John Zink	LDR-11-LE	S82733
F06a w/ A02	25 MMBtu/hr	John Zink	LDR-11-LE	S82733
NV Energy: Sun Peak Generating Station (Source ID: 00423)				
A01 (Unit 3)	84.5 MW	General Electric	PG7111-EA	N/A
A02 (Unit 4)	84.5 MW	General Electric	PG7111-EA	N/A
A03 (Unit 5)	84.5 MW	General Electric	PG7111-EA	N/A
MGM Resorts International (Source ID: 00825)				
MG13	32.66 MMBtu/hr	Cleaver Brooks	CBLE700-800-200	OL097510
MG14	32.66 MMBtu/hr	Cleaver Brooks	CBLE700-800-200	OL096895
MG17	2,520 hp	Caterpillar	3516TA	25Z02910
MG18	2,520 hp	Caterpillar	3516TA	25Z02931
MG19	2,520 hp	Caterpillar	3516TA	25Z02927
MG20	2,520 hp	Caterpillar	3516TA	25Z02913
MG21	2,520 hp	Caterpillar	3516TA	25Z02929
MG22	2,520 hp	Caterpillar	3516TA	25Z02932
MG23	2,520 hp	Caterpillar	3516TA	25Z02916
MC019	2,172 hp	Caterpillar	3512	6WN00081
MC020	2,172 hp	Caterpillar	3512	6WN00082
MB061	2,168 hp	Caterpillar	3516 DITA	25Z06027
MB062	2,168 hp	Caterpillar	3516 DITA	25Z02994
MB063	2,168 hp	Caterpillar	3516 DITA	25Z03002
MB066	2,518 hp	Caterpillar	3516 DITA	3NS00234
MB067	2,220 hp	Cummins	KTA50-G9	33146939
MB093	2,172 hp	Caterpillar	3512	1GZ01339
EX007	1,592 hp	Caterpillar	3512	24Z02774
EX008	1,592 hp	Caterpillar	3512	24Z02784
EX009	1,592 hp	Caterpillar	3512	24Z02770
EX010	1,592 hp	Caterpillar	3512	24Z02753

EU	Rating	Manufacturer	Model	Serial Number
BE80	2,520 hp	Caterpillar	3416	25Z05330
BE81	2,520 hp	Caterpillar	3416	25Z05335
BE82	2,520 hp	Caterpillar	3416	25Z05333
BE83	2,520 hp	Caterpillar	3416	25Z05332
BE84	2,520 hp	Caterpillar	3416	25Z05339
BE85	2,520 hp	Caterpillar	3416	25Z05338
BE86	2,520 hp	Caterpillar	3416	25Z05340
BE87	2,520 hp	Caterpillar	3416	1LZ00545
BE88	2,520 hp	Caterpillar	3416	1LZ00546
LX009	2,168 hp	Caterpillar	3516TA	25Z03005
LX010	2,168 hp	Caterpillar	3516TA	25Z02998
LX011	2,168 hp	Caterpillar	3516TA	25Z02999
LX024	2,206 hp	Caterpillar	3512C	EGB00199
LX025	2,206 hp	Caterpillar	3512C	EGB00203
NY27	1,818 hp	Caterpillar	3512TA	24Z06937
NY28	1,818 hp	Caterpillar	3512TA	24Z06932
NY29	1,818 hp	Caterpillar	3512TA	24Z06931
CC009	3,622 hp	Caterpillar	3516C	SBK00196
CC010	3,622 hp	Caterpillar	3516C	SBK00197
CC011	3,622 hp	Caterpillar	3516C	SBK00198
CC012	2,937 hp	Caterpillar	3516C	SBJ00378
CC013	2,937 hp	Caterpillar	3516C	SBJ00379
CC014	2,937 hp	Caterpillar	3516C	SBJ00380
CC015	2,937 hp	Caterpillar	3516C	SBJ00382
TBA15	1,180 hp	Caterpillar	3412CTA	1EZ07104
TBB15	2,520 hp	Caterpillar	3516 BTA	GZR00237
TM01	3,701 hp	Caterpillar	3516DITA	DD501118
Switch–West Campus (Source ID: 16304)				
A02	3,353 hp	Detroit Diesel	2250 DSEC	2185979
A03	3,353 hp	Detroit Diesel	744RSL5163	WA-6006372-1219
A04	3,353 hp	Detroit Diesel	2250 DSEC	2185985
A05	3,353 hp	Detroit Diesel	2250 DSEC	2183861
A06	3,353 hp	Detroit Diesel	2250 DSEC	2183870
A07	3,353 hp	Detroit Diesel	2250RXC6DT2	176196-1-2-0608
A08	3,353 hp	Detroit Diesel	2250RXC6DT2	175966-1-2-0608
A09	3,353 hp	Detroit Diesel	2250RXC6DT2	175966-1-3-0608
A10	3,353 hp	Marathon Electric	2250LXC6DT2	330055-1-2-0311
A11	3,353 hp	Marathon Electric	2250LXC6DT2	330055-1-3-0311
A12	3,353 hp	Marathon Electric	2250LXC6DT2	330055-1-1-0311

EU	Rating	Manufacturer	Model	Serial Number
A13	3,353 hp	Marathon Electric	2250LXC6DT2	333726-1-1-0811
A14	3,353 hp	Marathon Electric	2250LXC6DT2	333726-2-2-0811
A15	3,353 hp	Marathon Electric	2250LXC6DT2	333726-2-1-0811
A16	3,353 hp	Marathon Electric	2250RXC6DT2	334657-1-1-0811
A17	3,353 hp	Marathon Electric	2250RXC6DT2	341530-1-1-0112
A18	3,353 hp	Marathon Electric	2250LXC6DT2	341565-1-3-0212
A19	3,353 hp	Marathon Electric	2250LXC6DT2	369767-1-1-0214
A20	3,353 hp	Marathon Electric	2250LXC6DT2	341565-1-1-0212
A21	3,353 hp	Marathon Electric	2250LXC6DT2	346646-1-0512
A22	3,353 hp	Marathon Electric	2250LXC6DT2	348117-1-3-0812
A23	3,353 hp	Marathon Electric	2250LXC6DT2	348117-1-1-1112
A24	3,353 hp	Marathon Electric	2250LXC6DT2	356251-1-4-0213
A25	3,353 hp	Marathon Electric	2250LXC6DT2	346646-1-2-0512
A26	3,353 hp	Marathon Electric	2250LXC6DT2	348117-1-2-0812
A27	3,353 hp	Marathon Electric	2250LXC6DT2	36251-1-1-0213
A28	3,353 hp	Marathon Electric	2250LXC6DT2	356251-1-2-0213
A29	3,353 hp	Marathon Electric	2250LXC6DT2	356251-1-3-0213
A32	3,353 hp	Marathon Electric	2250LXC6DT2	369338-1-3-0114
A33	3,353 hp	Marathon Electric	2250LXC6DT2	369338-1-1-0114
A34	3,353 hp	Marathon Electric	2250LXC6DT2	369338-1-2-0114
C01	3,353 hp	Marathon Electric	2250LXC6DT2	348116-1-1-0712
C02	3,353 hp	Marathon Electric	2250LXC6DT2	348116-1-2-0712
C03	3,353 hp	Marathon Electric	2250LXC6DT2	348116-1-3-0712
C04	3,353 hp	Marathon Electric	2250LXC6DT2	360838-1-3-0713
C05	3,353 hp	Marathon Electric	2250LXC6DT2	360838-1-1-0713
C06	3,353 hp	Marathon Electric	2250LXC6DT2	360838-1-2-0713
C07	3,353 hp	Marathon Electric	2250LXC6DT2	365276-1-1-1013
C08	3,353 hp	Marathon Electric	2250LXC6DT2	365276-1-2-1013
C09	3,353 hp	Marathon Electric	2250LXC6DT2	365276-1-3-1013
C10	3,353 hp	Marathon Electric	2250LXC6DT2	369877-1-10514
C11	3,353 hp	Marathon Electric	2250LXC6DT2	369877-1-1-0614
C12	3,353 hp	Marathon Electric	2250LXC6DT2	369877-1-2-0614
C13	3,353 hp	Marathon Electric	2250LXC6DT2	370421-1-1-0514
C14	3,353 hp	Marathon Electric	2250LXC6DT2	370421-1-2-0514
C15	3,353 hp	Marathon Electric	2250LXC6DT2	370421-1-3-0514
C16	3,353 hp	Marathon Electric	2250LXC6DT2	341565-1-2-0212
C17	3,353 hp	Marathon Electric	2250LXC6DT2	369767-1-3-0214
C18	3,353 hp	Marathon Electric	2250LXC6DT2	369767-1-2-0214
C19	3,353 hp	Marathon Electric	16V4000DS2250	95030500170

EU	Rating	Manufacturer	Model	Serial Number
C20	3,353 hp	Marathon Electric	16V4000DS2250	95030500168
C21	3,353 hp	Marathon Electric	16V4000DS2250	95030500169
C22	3,353 hp	Marathon Electric	16V4000DS2250	95030500326
C23	3,353 hp	Marathon Electric	16V4000DS2250	95030500327
C24	3,353 hp	Marathon Electric	16V4000DS2250	95030500325
G01	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500461
G02	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500157
G03	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500463
G04	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500158
G05	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500494
G06	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500159
G07	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500628
G08	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500331
G09	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500631
G10	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500330
G11	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500634
G12	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500332
G13	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500256
G14	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500483
G15	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500255
G16	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500484
G17	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500249
G18	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500485
G19	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500557
G20	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500626

EU	Rating	Manufacturer	Model	Serial Number
G21	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500555
G22	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500624
G23	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500625
G24	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500698
E01	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500632
E02	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500493
E03	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500627
E04	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500462
E05	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500633
E06	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500492
E07	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500703
E08	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500701
E09	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500700
E10	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500702
E11	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500766
E12	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500699
E13	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030501092
E14	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030501091
E15	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030501098
E16	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030501065
E17	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030501068
E18	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030501064
J01	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500919

EU	Rating	Manufacturer	Model	Serial Number
J02	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500920
J03	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500921
J04	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500926
J05	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500925
J06	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500927
J07	3,353 hp	Detroit Diesel	16V4000G83	5482000210
J08	3,353 hp	Detroit Diesel	N/A	5482000191
J09	3,353 hp	Detroit Diesel	16V4000G83	5482000209
J10	3,353 hp	Detroit Diesel	N/A	5482000192
J11	3,353 hp	Detroit Diesel	16V4000G83	5482000208
J12	3,353 hp	Detroit Diesel	N/A	5482000190
J13	3,353 hp	Detroit Diesel	16V4000G83	5482000212
J14	3,353 hp	Detroit Diesel	16V4000G83	5482000211
J15	3,353 hp	Detroit Diesel	16V4000G83	5482000207
J16	3,353 hp	Detroit Diesel	16V4000G24S	5482000244
J17	3,353 hp	Detroit Diesel	16V4000G24S	5482000246
J18	3,353 hp	Detroit Diesel	16V4000G24S	5482000245
J19	125 hp	John Deere	6068HFC48	PE6068N007610
L01	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500548
L02	3,353 hp	Marathon Electric	MTU16V4000DS22 50	95030500549

bbl = barrels (1 barrel = 42 gallons); bhp = brake horsepower; hp = horsepower; MMBtu/hr =Millions of British thermal units per hour; MW = megawatt.

History: Adopted February 4, 2025 (Ord. No. 5216).