

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
SACRAMENTO, CA 95814-5512
www.energy.ca.gov



**STATE OF CALIFORNIA
ENERGY RESOURCES CONSERVATION
AND DEVELOPMENT COMMISSION**

California Energy Commission
**DOCKETED
07-AFC-5C**
TN 69908
MAR 13 2013

In the Matter of:)
IVANPAH SOLAR ELECTRIC)
GENERATING SYSTEM) Docket No. 07-AFC-5C
)
) Order No. 12-0213-8
)
SOLAR PARTNERS, LLC) ORDER APPROVING a Petition to Modify
) Air Quality Conditions of Certification
)
)

On March 8, 2012, the project owners, Solar Partners, LLC, filed a Petition to Amend the California Energy Commission’s (Energy Commission) Decision for the Ivanpah Solar Electric Generating System (ISEGS) project. The Petition to Amend modified, deleted and added several Air Quality Conditions of Certification. The modifications proposed in the petition would allow equipment changes to make the project operations more effective and efficient.

STAFF RECOMMENDATION

Energy Commission staff reviewed the petition and found that it complied with the requirements of title 20, section 1769(a) of the California Code of Regulations and recommended approval of Solar Partners, LLC’s petition to modify the ISEGS Project and amend the Conditions of Certification.

ENERGY COMMISSION FINDINGS

Based on staff’s analysis, the Energy Commission concludes that the proposed changes will not result in any significant impact to environmental or public health and safety. The Energy Commission finds that:

- The petition meets all the filing criteria of title 20, section 1769(a) of the California Code of Regulations concerning post-certification project modifications;
- The modifications will not change the findings in the Energy Commission’s Final Decision;
- The project will remain in compliance with all applicable laws, ordinances, regulations, and standards, subject to the provisions of Public Resources Code section 25525;

- The proposed modifications to the Air Quality Conditions of Certification will result in a beneficial change by providing updated air conditions for the ISEGS project; and
- The changes are based on information that was not available to the parties prior to Energy Commission certification.

CONCLUSION AND ORDER

The Energy Commission hereby adopts Staff's recommendation and approves the following changes to the Energy Commission Decision for the Ivanpah Solar Electric Generating System project. New language is shown as **bold and underlined**, and deleted language is shown in ~~strikeout~~.

CONDITION OF CERTIFICATION

DISTRICT CONDITIONS OF CERTIFICATION

*CONDITIONS APPLICABLE TO IVANPAH 1, 2 & 3 (THREE - 3) **AUXILIARY BOILERS, MDAQMD APPLICATION NUMBERS/PERMIT NUMBERS; 00009311 (B010375) 00009314 (B010376) & 00009320 (B010377), each consisting of:***

Equipment Description:

Nebraska **Rentech D-type water tube** boilers, Model ~~NSX-G-120~~, each equipped with Natcom **Todd-Coen Ultra** Low-NOx Burners rated at a maximum heat input of ~~231,124~~ **249** MMBTU/hr, and flue gas recirculation (FGR or EGR) ~~operating at 13.9 percent excess air,~~ fueled exclusively on utility grade natural gas. Equipment shall use ~~no more than 225,000~~ **242,500** cu-ft/hr of fuel and provide ~~220,000~~ **175,000** lb/hr of steam. Each boiler is equipped with a stack that is 130 feet high and ~~40~~ **60** inches in diameter.

These conditions (**AQ-5, 6 and AQ-12**) apply separately to each boiler unless otherwise specified.

AQ-5 Not later than 180 days after initial startup, the **owner**/operator shall perform an initial compliance test on this boiler in accordance with the District Compliance Test Procedural Manual. This test shall demonstrate that this equipment does not exceed the following emission maximums:

Pollutant	ppmvd	Lb/MMBtu	Lb/hr	
*NOx	9.0	0.011	2.75	(Per USEPA Methods 19 and 20)
SOx 2	1.7	0.003	0.76	
*CO	25.0	0.018	4.62	(Per USEPA Methods 10)
VOC	12.6	0.0054	1.32	(Per USEPA Methods 25A and 18)
PM10	n/a	0.007	1.7	(Per USEPA Methods 201A 5 and 202 or <u>201A</u> 5 and 202 or CARB Method 5)

*corrected to 3% oxygen, on a dry basis, averaged over one hour

Opacity shall be conducted per Method 9; Flue gas flow rate shall be quantified in dscf per USEPA Methods 1 through 5.

Verification: The project owner shall notify the District and the CPM within fifteen (15) working days before the execution of the compliance test required in this condition. The test results shall be submitted to the District and to the CPM within 60 days of the date of the tests.

AQ-6 The owner/operator shall perform annual compliance tests in accordance with the District Compliance Test Procedural Manual. Prior to performing these annual tests, the boiler shall be tuned in accord with the manufacturer's specified tune-up procedure, by a qualified technician. Subsequent tests shall demonstrate that this equipment does not exceed the following emission maximums:

Pollutant	ppmvd	Lb/MMBtu	Lb/hr	
*NOx	9.0	0.011	2.75	(Per USEPA Methods 19 and 20)
SOx ₂	1.7	0.003	0.76	
*CO	25.0	0.018	4.62	(Per USEPA Methods 10)
VOC	12.6	0.0054	1.32	(Per USEPA Methods 25A and 18)
PM10	n/a	0.007	1.7	(Per USEPA Methods 201A 5 and 202 or CARB Method 5)

*corrected to 3% oxygen, on a dry basis, averaged over one hour

Opacity shall be conducted per Method 9; Flue gas flow rate shall be quantified in dscf per USEPA Methods 1 through 5.

Verification: The project owner shall notify the District and the CPM within fifteen (15) working days before the execution of the compliance test required in this condition. The test results shall be submitted to the District and to the CPM within 60 days of the date of the tests.

AQ-12 The combined fuel use from the auxiliary boilers and nighttime preservation boilers shall not exceed ~~This boiler shall not burn more than 0.9 MMSCF of natural gas in any single day, and no more than 328 MMSCF of natural gas in any calendar year;~~ combined fuel use is the sum total of natural gas combusted from Boilers with MDAQMD permit numbers; B010375 and B011544 (Ivanpah 1); B010376 and B011572 (Ivanpah 2); B010377 and B011573 (Ivanpah 3).

- a. ~~These limits shall not apply during the facility commissioning period. The commissioning period shall begin the first time fuel is fired in the boiler. The commissioning period shall end when the facility achieves commercial operation, but no later than 180 days after first fire.~~

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

CONDITIONS APPLICABLE TO IVANPAH I, II, AND III EMERGENCY FIRE PUMPS, MDAQMD APPLICATION NUMBERS/PERMIT NUMBERS; 00009312 (E010380), 00009315 (E010378), AND 00009319 (E010384), each consisting of:

Equipment Description:

Year of Manufacture 2010, Tier III, One Clarke, Diesel fired internal combustion engine, Model No. JU6H-UF62, and Serial number tbd, After Cooled, Direct Injected, Turbo Charged, producing 240 bhp with 6 cylinders at 2,600 rpm (or equiv.) while consuming a maximum of 10 gal/hr. This equipment powers a pump.

These conditions (**AQ-13** through **AQ-19 AQ-22**) apply separately to all three emergency fire pump engines unless otherwise specified.

AQ-13 This engine, certified in accordance with 40 Code of Federal Regulations (CFR) Part 89, and after treatment control device (if any) system shall be installed, operated and maintained according to the manufacturer's emission-related written instructions. Further, the owner/operator shall change only those emission-related settings that are permitted by in strict accord with these recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. **[40 CFR Part 60 Subparts 60.4205 and 60.4211]**

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, EPA or CEC staff.

~~**AQ-14** These engines may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engines are located or expects to order such outages at a particular time, the engines are located in the area subject to the rotating outage, the engines are operated no more than 30 minutes prior to the forecasted outage, and the engines are shut down immediately after the utility advises that the outage is no longer imminent or in effect.~~

~~**Verification:** During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.~~

~~**AQ-15** These engines may operate in response to fire suppression requirements and needs.~~

~~**Verification:** During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.~~

AQ-14 16 This These units shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per ARB Diesel or equivalent requirements. **[17 California Code of Regulations (CCR) 93115; 60.4207(b)]**

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-15 -17 A non-resettable meter with a minimum display capability of four-digit ~~(9,999) hours timer~~ shall be installed and maintained on this these units to indicate elapsed engine operating time. [Title 17 CCR §93115.10(e)(1)].
District and State Only

Verification: At least thirty (30) days prior to the installation of the engine, the project owner shall provide the District and the CPM the specification of the hour timer.

AQ-16 -18 This These units shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than **0.5 hours per day for a total of 50 hours per year**, and ~~no more than 0.5 hours per day for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the~~ **The 50 hour per year limit. can be exceeded when the emergency fire pump assembly is driven directly by a stationary diesel fueled CI engine when operated per and in accord with the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 1998 edition. This requirement includes usage during emergencies. [District Rule 1302(C)(2)(a) and Rule 1304 (D)(1)(a)] and 17 CCR 93115.3(n) [Hours allowed by federal regulation 40 CFR 60.42(f) streamlined out as these permit requirements are more stringent than the federal regulatory requirements.]**

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

~~**AQ-19** The hour limit of **AQ-18** can be exceeded when the emergency fire pump assemblies are driven directly by a stationary diesel fueled CI engine when operated per and in accord with the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 2006 edition or the most current edition approved by the CARB Executive Officer. [Title 17 CCR 93115(e)16]~~

~~**Verification:** During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.~~

AQ-17-20 The owner/operator shall maintain an operations log for this these units current and on-site, (either at the engine location or at a on-site location), for a minimum of **five (5) two (2) years**, and for another year where it can be made available to the District staff within 5 working days from the District's request, and this log shall be provided to District, State and Federal personnel upon request.

The log shall include, at a minimum, the information specified below:

- a. Date of each use and duration of each use (in hours);
- b. Reason for use (testing & maintenance, emergency, required emission testing, **etc.**);
- c. **Monthly and c**alendar year operation in terms of fuel consumption (in gallons) and total hours [**17 CCR 93115**]; and,
- d. Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log.) [**17 CCR 93115**]; and
- e. ~~Documentation of maintenance as per manufacturer's recommendations and good maintenance practices.~~

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-18 These engines may operate in response to fire suppression requirements and needs. [Rule 204]

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-19-21 ~~This~~ These fire protection units ~~is~~ are subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (Title-17 CCR §93115) **and 40 Code of Federal Regulations (CFR) Part 60, Subpart III (NSPS)**. In the event of conflict between these conditions and the ATCM **or NSPS**, the more stringent requirements shall govern.

Verification: ~~Not necessary.~~ The project owner shall submit to the District and the CPM the engine specifications at least 30 days prior to purchasing the engines for review and approval demonstrating that the engines meet the ATCM and NSPS emission limit requirements at the time of engine purchase.

AQ-22 ~~This unit is subject to the requirements of the Federal New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60 Subpart III).~~

Verification: ~~The project owner shall submit to the District and the CPM the engine specifications at least 30 days prior to purchasing the engines for review and approval demonstrating that the engines meet NSPS emission limit requirements at the time of engine purchase.~~

CONDITIONS APPLICABLE TO IVANPAH I, II, AND III (THREE - 3) EMERGENCY GENERATORS, MDAQMD APPLICATION NUMBERS/PERMIT NUMBERS; 00009313 (E010381), 00009316 (E010379), AND 00009317 (E010382), each consisting of:

Equipment Description:

Year of Manufacture 2010, Tier II, One Caterpillar, Diesel fired internal combustion engine, Model No. 3512C6C-HD, and Serial No. tbd, After Cooled, Direct Injected, Turbo Charged, producing 22503,750 bhp with 16 cylinders at 1,800 rpm (or equiv.) while consuming a maximum of 173105 gal/hr. This equipment powers a Generator.

These conditions (AQ-2023 through AQ-2634) apply separately to all three emergency generator engines unless otherwise specified.

AQ-20-23 **This engine, certified in accordance with 40 CFR Part 89, and after treatment control device (if any) shall be installed, operated and maintained according to the manufacturer's emission-related written instructions. Further, the owner/operator shall change only those emission-related settings that are permitted by the manufacturer. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [40 CFR Part 60 Subparts 60.4205, and 60.4211]** ~~Engine may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.~~

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-21-24 This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per ARB Diesel or equivalent requirements. **[17 CCR 93115; 60.4207(b)]**

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

~~**AQ-25** This equipment shall be installed, operated and maintained in strict accord with these recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.~~

~~**Verification:** During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.~~

AQ-22-26 A non-resettable **hour meter with a minimum display capability of four-digit (9,999) hours** timer shall be installed and maintained on this unit to indicate elapsed engine operating time. **[Title 17 CCR §93115.10(e)(1)]. District and State Only**

Verification: At least thirty (30) days prior to the installation of the engine, the project owner shall provide the District and the CPM the specification of the hour timer.

AQ-23 **This unit shall not be used to provide power during a voluntary power outage and/or power reduction initiated under an Interruptible Service Contract (ISC), Demand Response Program (DRP), Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier. [17 CCR 93115] [40 CFR 60 Subpart IIII allowance for DRP streamlined out.]**

Verification: **During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.**

AQ-24-27 This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than **0.5 hours per day for a total of 50 hours per year, and no more than 0.5 hours per day for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 50-hour per year limit. [NSR and 17 CCR 93115] [Hours allowed by 60.42(f) streamlined out.]**

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-25-28 The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:

- a. Date of each use and duration of each use (in hours);
- b. Reason for use (testing & maintenance, emergency, required emission testing, etc.);
- c. **Monthly and c**Calendar year operation in terms of fuel consumption (in gallons) and total hours **[17 CCR 93115]; and,**
- d. Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log) **[17 CCR 93115]** and,
- e. ~~Documentation of maintenance as per manufacturer's recommendations and good maintenance practices.~~

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-26-29 This unit ~~genset~~ is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (Title 17 CCR §93115) **and 40 CFR Part 60, Subpart III (NSPS)**. In the event of conflict between these conditions and the ATCM or NSPS, the more stringent requirements shall govern.

Verification: ~~Not necessary.~~ **The project owner shall submit to the District and the CPM the engine specifications at least 30 days prior to purchasing the engines for review and approval demonstrating that the engines meet the ATCM and NSPS emission limit requirements at the time of engine purchase.**

AQ-30 ~~This unit shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.~~

Verification: ~~During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.~~

AQ-31 ~~This unit is subject to the requirements of the Federal New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60 Subpart III).~~

Verification: ~~The project owner shall submit the engine specifications at least 30 days prior to purchasing the engines for review and approval demonstrating that the engines meet NSPS emission limit requirements at the time of engine purchase.~~

CONDITIONS APPLICABLE TO IVANPAH 1, 2, & 3 (Three - 3) NIGHTTIME PRESERVATION BOILERS, MDAQMD APPLICATION NUMBERS/PERMIT NUMBERS; MD10000063 (B011544), MD10000064 (B011572) & MD10000065 (B011573), each consisting of:

equipped with Low-NOx Burners rated at a maximum heat input of less than 10.0 MMBTU/hr, fueled exclusively on utility grade natural gas. Equipment shall use 9,730 cu-ft/hr of fuel and provide 5,000 lb/hr of steam.

These conditions (AQ-27 through AQ-34) apply separately to all three nighttime preservation boilers unless otherwise specified.

AQ-27 Operation of this equipment must be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

Verification: Any non-compliant operations shall be listed in the Annual Compliance report (COMPLIANCE-7).

AQ-28 The owner/operator shall operate this equipment in strict accord with the recommendations of the manufacturer or supplier and/or sound

engineering principles and consistent with all information submitted with the application for this permit, which produce the minimum emission of air contaminants.

Verification: As part of the Annual Compliance Report (COMPLIANCE-7), the project owner shall include information on the date, time, and duration of any violation of this permit condition.

AQ-29 This boiler shall use only natural gas as fuel and shall be equipped with a meter measuring fuel consumption in standard cubic feet.

Verification: As part of the Annual Compliance Report (COMPLIANCE-7), the project owner shall include proof that only pipeline quality, or Public Utility Commission regulated natural gas is used in these boilers.

AQ-30 The owner/operator shall maintain a current, on-site (at a central location if necessary) log for this equipment for five (5) years, which shall be provided to District, state, or federal personnel upon request. This log shall include calendar year fuel use for this equipment in standard cubic feet, or BTUs, and daily hours of operation.

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or Energy Commission staff.

AQ-31 The owner/operator shall perform annual tune-ups in accordance with the unit manufacturer's specified tune-up procedure, by a qualified technician.

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or Energy Commission staff.

AQ-32 Records of fuel supplier certifications of fuel sulfur content shall be maintained to demonstrate compliance with the sulfur dioxide and particulate matter emission limits.

Verification: Condition of Certification AQ-29 shall be used to demonstrate compliance with this condition.

AQ-33 The owner/operator shall continuously monitor and record fuel flow rate.

Verification: At least 120 days prior to construction of the boiler stacks, the project owner shall provide the District for approval, and the CPM for review, a detailed drawing and a plan on how the measurements and recordings, required by this condition, will be performed by the chosen monitoring system.

AQ-34 The combined fuel use from the auxiliary boiler and the nighttime preservation boiler shall not exceed 328 MMSCF of natural gas in any

calendar year; combined fuel use is the sum total of natural gas combusted from Boilers with MDAQMD permit numbers; B010375 and B011544 (Ivanpah 1); B010376 and B011572 (Ivanpah 2); B010377, and B011573 (Ivanpah 3).

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

CONDITIONS APPLICABLE TO COMMON AREA EMERGENCY GENERATOR, MDAQMD APPLICATION NUMBERS/PERMIT NUMBERS; MD10000061 (E011546), consisting of:

Year of Manufacture 2010, Tier III, Located in the Common Logistics Area; One TBD, Diesel fired internal combustion engine Model No. TBD and Serial No. TBD, producing 333 bhp with TBD cylinders at TBD rpm while consuming a maximum of TBD gm/bhp-hr.

AQ-35 This engine, certified in accordance with 40 CFR Part 89, and after treatment control device (if any) shall be installed, operated and maintained according to the manufacturer's emission-related written instructions. Further, the owner/operator shall change only those emission-related settings that are permitted by the manufacturer. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [40 CFR Part 60 Subparts 60.4205, and 60.4211]

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-36 This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements. [17 CCR 93115; 60.4207(b)]

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-37 A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time. [Title 17 CCR §93115.10(e)(1)]. District and State Only

Verification: At least thirty (30) days prior to the installation of each engine, the project owner shall provide the District and the CPM the specification of the hour timer.

AQ-38 This unit shall not be used to provide power during a voluntary power outage and/or power reduction initiated under an Interruptible Service

Contract (ISC), Demand Response Program (DRP), Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier. [17 CCR 93115] [40 CFR 60 Subpart IIII allowance for DRP streamlined out.]

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-39 This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 0.5 hrs per day for a total of 50 hours per year for testing and maintenance. [NSR and 17 CCR 93115] [Hours allowed by 60.42(f) streamlined out.]

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-40 The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:

- a. Date of each use and duration of each use (in hours);
- b. Reason for use (testing & maintenance, emergency, required emission testing, etc.);
- c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and total hours [17 CCR 93115]; and,
- d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log.) [17 CCR 93115]

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-41 This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (17 CCR §93115) and 40 CFR Part 60, Subpart IIII (NSPS). In the event of conflict between these conditions and the ATCM or NSPS, the more stringent requirements shall govern.

Verification: The project owner shall submit to the District and the CPM the engine specifications at least 30 days prior to purchasing the engines for review and approval demonstrating that the engines meet the ATCM and NSPS emission limit requirements at the time of engine purchase.

CONDITIONS APPLICABLE TO THE COMMON AREA EMERGENCY FIRE PUMP, MDAQMD APPLICATION NUMBERS/PERMIT NUMBERS; MD10000062 (E011547), consisting of:

Year of Manufacture TBD, Tier III; Located in the Common Logistics Area; One Clarke (or equiv., Diesel fired internal combustion engine Model No. JU4H-UFAD4G (or equiv.) and Serial No. tbd , Direct Injected, producing 106.5 bhp with 4 cylinders at 1760 rpm while consuming a maximum of 8.5 gal/hr.

AQ-42 This engine, certified in accordance with 40 CFR Part 89, and after treatment control device (if any) shall be installed, operated and maintained according to the manufacturer's emission-related written instructions. Further, the owner/operator shall change only those emission-related settings that are permitted by the manufacturer. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [40 CFR Part 60 Subparts 60.4205 and 60.4211]

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-43 This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per CARB Diesel or equivalent requirements. [17 CCR 93115; 60.4207(b)]

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-44 A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time. [Title 17 CCR §93115.10(e)(1)]. District and State Only

Verification: At least thirty (30) days prior to the installation of the engine, the project owner shall provide the District and the CPM the specification of the hour timer.

AQ-45 This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 0.5 hrs per day for a total of 50 hours per year for testing and maintenance. The 50 hour limit can be exceeded when the emergency fire pump assembly is driven directly by a stationary diesel fueled CI engine operated per and in accord with the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based

Fire Protection Systems," 1998 edition. This requirement includes usage during emergencies. [District Rule 1302(C)(2)(a) and Rule 1304 (D)(1)(a)] and 17 CCR 93115.3(n)] [Hours allowed by federal regulation 40 CFR 60.42(f) streamlined out as these permit requirements are more stringent than the federal regulatory requirements.]

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-46 The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request.

The log shall include, at a minimum, the information specified below:

- a. Date of each use and duration of each use (in hours);
- b. Reason for use (testing & maintenance, emergency, required emission testing, etc.);
- c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and total hours [17 CCR93115]; and,
- d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log.) [17 CCR 93115]

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-47 These engines may operate in response to fire suppression requirements and needs. [Rule 204]

Verification: During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.

AQ-48 This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (17 CCR §93115) and 40 CFR Part 60, Subpart IIII (NSPS). In the event of conflict between these conditions and the ATCM or NSPS, the more stringent requirements shall govern.

Verification: The project owner shall submit to the District and the CPM the engine specifications at least 30 days prior to purchasing the engines for review and approval demonstrating that the engines meet the ATCM and NSPS emission limit requirements at the time of engine purchase.

IT IS SO ORDERED.

CERTIFICATION

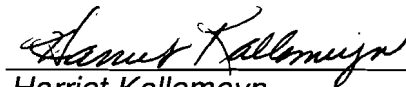
The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of an Order duly and regularly adopted at a meeting of the Energy Commission held on February 13, 2013.

AYE: Weisenmiller, Douglas, McAllister

NAY: None

ABSENT: None

ABSTAIN: None



Harriet Kallemeyn,
Secretariat