



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



**HEALTHY AIR LIVING™**

JUL 25 2011

Seth Hunter  
Hunter Edison Oil Development  
15545 Hermosa Road  
Bakersfield, CA 93307

**RE: Notice of Final Action - Authority to Construct  
Project Number: S-1110921**

Dear Mr. Hunter:

The Air Pollution Control Officer has issued Authority to Construct permits to Hunter Edison Oil Development for a new transportable IC engine powering an electric generator, at various unspecified locations in the Central Kern County Fields Heavy Oil stationary source.

Enclosed are copies of the Authority to Construct permits and a copy of the notice of final action to be published approximately three days from the date of this letter.

Notice of the District's preliminary decision to issue this Authority to Construct was published on 6/17/11. The District's analysis of the proposal was also sent to CARB on 6/14/11. No comments were received following the District's preliminary decision on this project.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Leonard Scandura at (661) 392-5500.

Sincerely,

David Warner  
Director of Permit Services

DW:dbt

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95358-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



JUL 25 2011

Mike Tollstrup, Chief  
Project Assessment Branch  
Stationary Source Division  
California Air Resources Board  
PO Box 2815  
Sacramento, CA 95812-2815

**RE: Notice of Final Action - Authority to Construct  
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## AUTHORITY TO CONSTRUCT

**PERMIT NO:** S-1329-25-1

**ISSUANCE DATE:** 07/19/2011

**LEGAL OWNER OR OPERATOR:** HUNTER EDISON OIL DEVELOPMENT  
**MAILING ADDRESS:** C/O VAQUERO ENERGY  
15545 HERMOSA RD  
BAKERSFIELD, CA 93307

**LOCATION:** HEAVY OIL CENTRAL  
CA

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 230 BHP DIESEL-FIRED TRANSPORTABLE TIER 1 CERTIFIED IC ENGINE POWERING AN ELECTRICAL GENERATOR (VARIOUS LOCATIONS IN HEAVY OIL CENTRAL KERN COUNTY FIELDS): LIMIT ANNUAL OPERATION


### CONDITIONS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Engine shall only be operated at locations east of U.S. Interstate 5 in Kern County. [District Rule 1020]
3. Permittee shall notify the District Compliance Division of each location at which the unit is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 1070]
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO-approved alternatives. [District Rules 2201 and 4702]
5. Engine shall not operate more than 6255 hours per year. [District Rule 2201]
6. The equipment shall not be operated within 1000 feet of any K-12 school. [CH&SC 42301.6]
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
8. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
9. The permittee shall keep accurate records of location and duration of operation. [District Rules 4701 and 4702]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services

S-1329-25-1; Jul 19 2011 11:05AM - TORID : Joint Inspection NOT Required

10. Emissions from this IC engine shall not exceed any of the following limits: 0.125 g-NO<sub>x</sub>/hp-hr, 0.0051 g-SO<sub>x</sub>/hp-hr, 0.2 g-PM<sub>10</sub>/hp-hr, 0.5 g-CO/hp-hr, 0.3 g-VOC/hp-hr. [District Rules 2201 and 4702]
11. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data and any other information necessary to demonstrate compliance. [District Rules 2201 and 4702]
12. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 2201 and 4702]
13. This certified Tier 1 or Tier 2 engine shall be removed from service or replaced with a new certified Tier 4 engine by January 1, 2015 or 12 years from the installation of the engine, whichever is later, to be in compliance with Rule 4702. Authority to Construct (ATC) application for new certified Tier 4 engine must be submitted to the District at least six months before the compliance date. [District Rule 4702]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** S-1329-32-0

**ISSUANCE DATE:** 07/19/2011

**LEGAL OWNER OR OPERATOR:** HUNTER EDISON OIL DEVELOPMENT

**MAILING ADDRESS:** C/O VAQUERO ENERGY  
15545 HERMOSA RD  
BAKERSFIELD, CA 93307

**LOCATION:** HEAVY OIL CENTRAL  
CA

**EQUIPMENT DESCRIPTION:**

163 HP FORD WSG1068T NATURAL GAS-FIRED IC ENGINE WITH NSCR POWERING AN ELECTRICAL GENERATOR APPROVED TO OPERATE AT VARIOUS UNSPECIFIED LOCATIONS


### CONDITIONS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Engine shall only be operated at locations east of U.S. Interstate 5 in Kern County. [District Rule 1020]
3. The permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 1070]
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO-approved alternatives. [District Rule 2201]
5. This engine shall be operated and maintained in proper operating condition according to the manufacturer's specifications. [District Rules 2201 and 4702]
6. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
7. This IC engine shall not operate within 100 meters of any off-site business or residential receptor. [District Rule 4102]
8. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
9. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

  
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DAVID WARNER, Director of Permit Services

10. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every calendar quarter (in which a source test is not performed) using a portable emission monitor that meets District specifications. [In-stack O<sub>2</sub> monitors may be allowed if approved by the APCO.] Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702]
11. If either the NO<sub>x</sub> or CO concentrations corrected to 15% O<sub>2</sub>, as measured by the portable analyzer, exceed the allowable emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4702]
12. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702]
13. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 15% O<sub>2</sub>, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702]
14. The permittee shall update the I&M plan (i.e. monthly NO<sub>x</sub>, CO, and O<sub>2</sub> emissions monitoring with a portable analyzer) for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702]
15. The permittee shall keep accurate records of location and duration of operation. [District Rule 4701]
16. Emissions from this IC engine shall not exceed any of the following limits: 5 ppmvd NO<sub>x</sub> @ 15% O<sub>2</sub> (equivalent to 0.072 g-NO<sub>x</sub>/hp-hr), 0.00285 g-SO<sub>x</sub>/hp-hr, 0.02 g-PM<sub>10</sub>/hp-hr, 250 ppmvd CO @ 15% O<sub>2</sub> (equivalent to 2.155 g-CO/hp-hr), or 25 ppmvd VOC @ 15% O<sub>2</sub> (equivalent to 0.121 g-VOC/hp-hr). [District Rules 2201 and 4702]
17. Source testing to measure natural gas-combustion NO<sub>x</sub>, CO, and VOC emissions from this unit shall be conducted within 60 days of initial start-up and at least once every 24 months. [District Rules 2201 and 4702]
18. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rules 2201 and 4702]
19. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC emissions shall be reported as methane. VOC, NO<sub>x</sub>, and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rules 2201 and 4702]
20. The following test methods shall be used: NO<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 18, 25A or 25B, or ARB Method 100. [District Rules 1081, 2201 and 4702]

CONDITIONS CONTINUE ON NEXT PAGE

21. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
22. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
23. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rules 2201 and 4702]
24. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 2201 and 4702]
25. ATC S-1329-25-1 shall be implemented prior to or concurrently with this ATC. [District Rule 2201]