DOCKETED	
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Project Title:	The Walnut Creek Energy Park
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<b>Document Title:</b>	Petition to Amend #10 for Air Quality and Worker Safety Conditions
Description:	N/A
Filer:	Patty Paul
Organization:	Walnut Creek Energy Park
Submitter Role:	Applicant
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Walnut Creek Energy, LLC 911 Bixby Drive City of Industry, CA 91745-1702



September 28, 2017

Dale Rundquist Compliance Project Manager Siting, Transmission and Environmental Protection California Energy Commission 1516 Ninth Street, MS-2000 Sacramento, CA 95814

#### Subject: Walnut Creek Energy Park (Docket No. 05-AFC-2C) Petition for Minor Modification #10 – AQ-4, AQ-7 and WS-5

Dear Mr. Rundquist,

Walnut Creek Energy, LLC (WCE) petitions the California Energy Commission (CEC) to modify the Final Decision for the Walnut Creek Energy Park (WCEP) (05-AFC-02C) issued on February 27, 2008. WCE has prepared this Petition to Amend (Petition) in order to obtain the CEC's authorization for minor revisions to Air Quality Conditions of Certification (COC) AQ-4 and AQ-7 and Worker Safety COC WS-5. The Air Quality COC revisions are requested in order to ensure consistency with proposed changes to the Title V Permit submitted to South Coast Air Quality Management District (SCAQMD) originally on January 21, 2016 and June 28, 2016, and again on September 28, 2017. WCE is requesting a correction to the ammonia emission limit (i.e., change 5.0 to 5 ppm) in COC AQ-4 and believes that the proposed change is consistent with other like permit conditions for gas turbines permitted in the Los Angeles Basin. Additionally, WCE is requesting clarifying language be added to COC AQ-7 regarding the PM10 and PM2.5 source tests that the operating load of 100 percent for PM10 emission tests also applies to PM2.5 emission tests. Furthermore, WCE is requesting a minor modification to COC WS-5 which currently requires training of a security guard to use an AED device. WCEP does not have on-site security guards nor are they required per the CEC approved Operations Security Plan. Thus, WCE is requesting a modification to the language of COC WS-5 which will ensure consistency with the requirements of the Operations Security Plan. This Petition has been prepared in accordance with California Code of Regulations, Title 20, Public Utilities and Energy, Section 1769.

With adherence to the Conditions of Certification, the WCEP, as modified, will not cause significant adverse impacts to the environment and will not cause environmental impacts substantially different than those addressed in the Commission Decision.

Should you have any questions or require additional information related to this submittal, please contact me at (626) 986-0370.

Sincerely,

Rice MyPherm

Rick McPherson Plant Manager

Attachments

WCEP O&M File: 3.3.2.2

cc: George Piantka, NRG Energy, Inc. Heather MacLeod, NRG Energy, Inc.

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

In the Matter of:

Docket No. 05-AFC-02C

WALNUT CREEK ENERGY PARK

PETITION TO AMEND FINAL DECISION

WALNUT CREEK ENERGY, LLC

#### WALNUT CREEK ENERGY, LLC'S PETITION TO AMEND THE FINAL DECISION FOR THE WALNUT CREEK ENERGY PARK

September 28, 2017

Prepared by Trinity Consultants/Sierra Research 1801 J Street Sacramento, CA 95811 Phone: (916) 444-6666

Consultant for WALNUT CREEK ENERGY, LLC

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

In the Matter of:

Docket No. 05-AFC-02C

WALNUT CREEK ENERGY PARK

PETITION TO AMEND FINAL DECISION

WALNUT CREEK ENERGY, LLC

#### WALNUT CREEK ENERGY, LLC'S PETITION TO AMEND THE FINAL DECISION FOR THE WALNUT CREEK ENERGY PARK (Amendment #10)

#### I. INTRODUCTION

Petitioner, and Project Owner, Walnut Creek Energy, LLC (Petitioner), submits this Petition to Amend the Final Decision for the Walnut Creek Energy Park (WCEP or Project). The California Energy Commission (CEC or Commission) issued its Final Decision on February 27, 2008. WCEP, a nominal 500 megawatt (MW) simple-cycle power plant, began commercial operations in May 2013 and is located in the City of Industry, within Los Angeles County, California.

The purpose of this Petition is to request that Commission Staff approve corrections to references to the ammonia emission (i.e., "slip") limit in Air Quality Condition of Certification (COC) AQ-4 (hereinafter referred to as Condition AQ-4). The modification to COC AQ-4 will ensure consistency with proposed changes to the Title V Permit submitted to South Coast Air Quality Management District (SCAQMD) originally on June 28, 2016 and again on September 28, 2017.

Furthermore, Petitioner requests that Commission Staff approve changes to COC AQ-7 pertaining to PM<sub>10</sub> and PM<sub>2.5</sub> source testing requirements. The proposed modification to COC AQ-7 would ensure consistency with proposed changes to the Title V Permit submitted to the South Coast Air Quality Management District (SCAQMD) originally on January 21, 2016 and again on September 28, 2017.

In addition, Petitioner proposes a minor change to COC WorkerSafety-5. The proposed change would modify the list of on-site operations personnel who are required to be trained to use the facility's portable automatic external defibrillator (AED) device. The current language in COC WorkerSafety-5 requires that "one security guard" be trained to use the AED device. However, the CEC approved Operations Security Plan, as required per COC HAZ-9, allows for security measures that do not include full-time on-site security guards.<sup>1</sup> As such, Petitioner does not employ security guards for WCEP. To ensure consistency with the Project's Operations Security Plan and HAZ-9, and to clarify WorkerSafety-5, Petitioner proposes to strike certain language from WorkerSafety-5, as described in more detail below.

#### II. Summary of Proposed Changes

#### A. Proposed Modifications to Conditions AQ-4 and AQ-7<sup>2</sup>

On January 21, 2016, Petitioner submitted a Permit application to the SCAQMD requesting several changes to the Title V Permit for the WCEP **as** part of the Title V renewal (See Attachment 1: January 21, 2016 Application to Amend Title V Permit). On June 28, 2016 an additional change to the Title V Permit for the WCEP was requested of the SCAQMD (See Attachment 2: June 28, 2016 Request to SCAQMD). On July 6, 2017 the SCAQMD processed the Title V Permit renewal; however, the requested changes were deferred. The SCAQMD

<sup>&</sup>lt;sup>1</sup> To ensure the safety and security of WCEP, the specifics of the Operations Security Plan are <u>not</u> set forth in detail herein.

<sup>&</sup>lt;sup>2</sup> Proposed changes to Conditions of Certification are shown in **bold**, **underlined** text (for additions) or strikethrough text (for deletions).

intends to reopen the Title V Permit to remove construction and commissioning related permit conditions presently in Section H (Permit to Construct/Temporary Permit to Operate) and move operations associated permit conditions from Section H to Section D (Permit to Operate). SCAQMD has therefore asked that we resubmit the change requests (See Attachment 3: September 28, 2017 Request to SCAQMD). The following is a brief summary of these requested changes filed with SCAQMD, most of which do not require changes to the CEC license for WCEP:

- Removal of the calibration requirement for the totalizing fuel meter for the emergency fire pump engine (Section H, Permit Condition D12.6 for Device Number D34) (no change to Conditions of Certification in WCEP license);
- Clarification that the inlet temperature requirements for the Selective Catalytic Reduction (SCR) do not apply during startup and shutdown periods (Section H, Permit Condition D12.3 for Device Numbers C4, C10, C16, C22 and C28) (*no change to Conditions of Certification in WCEP license*);
- Addition of applicable conditions from 40 CFR 60, Subpart IIII for the emergency fire pump engine (no change to Conditions of Certification in WCEP license);
- Correction to the ammonia emission (i.e., "slip") limit from 5.0 parts per million (ppm) to 5 ppm, which is consistent with like permit conditions for gas turbines permitted in the Los Angeles Basin and in California, in general (Section H, Permit Condition A195.4 for Device Numbers C4, C10, C16, C22 and C28) (*proposed change to COC AQ-4 addressed in this Petition*); and
- Clarification that the operating load of 100 percent for PM<sub>10</sub> emission tests also applies to PM<sub>2.5</sub> emission tests (Section H, Permit Condition D29.3 for Device Numbers D1, D7, D13, D19 and D25) (*proposed change to COC AQ-7 addressed in this Petition*).

The Petitioner requests a correction to the ammonia emission limit (i.e., change 5.0 to 5 ppm) in COC AQ-4 to make the Condition consistent with the Title V Permit change request submitted to the SCAQMD, and the Petitioner requests clarifying language be added to COC AQ-7 regarding the PM<sub>10</sub> and PM<sub>2.5</sub> source tests. Specific changes to the respective COCs are presented in Section III below. The proposed changes to COCs AQ-4 and AQ-7 will not affect operating conditions or emission limits for the respective gas turbines, nor affect any other emission and/or operating limits or testing conditions for the gas turbines. To that end, the Petitioner respectfully requests approval of the requested changes to COCs AQ-4 and AQ-7, as set forth in Section III below.

#### **B.** Proposed Modification to WorkerSafety-5

Petitioner requests a minor modification to COC Worker Safety-5, which currently requires training of a security guard to use an AED device. Specifically, WorkerSafety-5 focuses on assurance that an AED is on site at all times and that operations personnel are properly trained to use the AED. The Condition identifies those operations personnel to be trained as being "minimum 2 personnel per shift, including one security guard." Security measures for WCEP, as set forth in the CEC approved Operations Security Plan, do not require on-site security guards. As such, Petitioner does not employ security guards for WCEP.<sup>3</sup>

The requested modification to COC WorkerSafety-5 will ensure consistency between the requirements of the approved Operations Security Plan and WorkerSafety-5. This proposed minor change to WorkerSafety-5 will not affect the safety and security of WCEP, its employees, or the public. To that end, Petitioner respectfully requests approval of the minor modification to Condition WorkerSafety-5, as set forth in further detail below.

#### III. INFORMATION REQUIRED PURSUANT TO CALIFORNIA CODE OF REGULATIONS SECTION 1769

<sup>&</sup>lt;sup>3</sup> The Operations Security Plan, dated August 16, 2012, was approved by the CEC on December 20, 2012.

# A. Complete description of the proposed modifications, including new language for any conditions that will be affected. (Section 1769(a)(1)(A).)

#### 1. Proposed Modifications to Condition of Certification AQ-4.

The proposed modification to COC AQ-4 would change the ammonia emission (i.e.,

"slip") limit from 5.0 ppm to 5 ppm. Specific changes to the Condition are shown below in bold

#### underlined text:

AQ-4: The 2.5 ppm NOx emissions limit(s) are averaged over 60 minutes at 15 percent oxygen, dry basis.

The 4.0 ppm CO emission limit(s) are averaged over 60 minutes at 15 percent oxygen, dry basis.

The 2.0 ppm VOC emission limit(s) are averaged over 60 minutes at 15 percent oxygen, dry basis.

The 5.05 ppm NH3 emission limit(s) are averaged over 60 minutes at 15 percent oxygen, dry basis.

**Verification**: The project owner shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report of Condition of Certification AQ-SC10.

#### 2. Proposed Modifications to Condition of Certification AQ-7.

The proposed modifications will clarify PM10 and PM25 emission source test

requirements in COC AQ-7. Specifically, the proposed language addresses testing conditions

and methods for the PM10 and PM25 emission source test. Proposed modifications to COC AQ-

7 are included below in **bold underlined** text.

**AQ-7:** The project owner shall conduct an initial source test for NOx, CO, SOx, VOC, NH<sub>3</sub> and PM10 and a periodic source test every three years thereafter for NOx, CO, SOx, VOC, <u>PM2.5</u>, and PM10 of each gas turbine exhaust stack in accordance with the following requirements:

 The project owner shall submit a source test protocol to the District and the CPM 45 days prior to the proposed source test date for approval. The protocol shall include the proposed operating conditions of the gas turbine, the identity of the testing lab, a statement from the lab certifying that it meets the criteria of District Rule 304, and a description of all sampling and analytical procedures.

- The initial source test shall be conducted no later than 180 days following the date of first fire.
  - The District and CPM shall be notified at least 10 days prior to the date and time of the source test.
- With the exception of PM10 and PM2.5 testing, Tthe source test shall be conducted with the gas turbine operating under maximum, average and minimum loads. For PM10 and PM2.5, the test shall be conducted with the gas turbine operating at maximum load.
- The source test shall be conducted to determine the oxygen levels in the exhaust.
- The source test shall measure the mass flow rate in lb/hr, fuel flow rate, the flue gas flow rate and the turbine generating output in MW.

Pollutant	Method	Averaging Time	Test Location
NOx	District Method 100.1	1 hour	Outlet of SCR
СО	District Method 100.1	1 hour	Outlet of SCR
SOx	District Method 307-91	District approved averaging time	Fuel Sample
VOC	District Method 25.3	1 hour	Outlet of SCR
PM10 ( <del>and as a</del> surrogate for- PM2.5	District Method 5	4 hours	Outlet of SCR
<u>PM2.5</u>	EPA Method 201A and 202	<u>4 hours</u>	Outlet of SCR
Ammonia	District Methods 5.3 and 207.1 or EPA Method 17	1 hour	Outlet of SCR

• The source test shall be conducted for the pollutants listed using the methods, averaging times, and test locations indicated and as approved by the CPM:

- The source test results shall be submitted to the District and the CPM no later than 60 days after the source test was conducted.
- All emission data is to be expressed in the following units:

- ppmv corrected to 15% oxygen dry basis,
- pounds per hour,
- pounds per million cubic feet of fuel burned and
- additionally, for PM10 only, grains per dry standard cubic feet of <u>exhaust</u> <u>gas</u> fuel burned.
- Exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute and dry actual cubic feet per minute.
- All moisture concentrations shall be expressed in terms of percent corrected to 15 percent oxygen.

**Verification**: The project owner shall submit the proposed protocol for the initial source tests 45 days prior to the proposed source test date to both the District and CPM for approval. The project owner shall submit source test results no later than 60 days following the source test date to both the District and CPM. The project owner shall notify the District and CPM no later than 10 days prior to the proposed initial source test date and time.

#### 3. Proposed Modification to Condition of Certification Worker Safety-5

As summarized above, Petitioner requests a minor modification to COC Worker Safety-5, which currently requires that operations personnel, "including one security guard," be trained to use a portable AED device. The COC identifies on-site personnel during operations as being "minimum 2 personnel per shift, including one security guard." (See 2008 Final Decision at p. 292.) As noted in the Petitioner's approved Operations Security Plan (submitted in compliance with COC HAZ-9 and approved by the CEC Compliance Project Manager on December 20, 2012), the Petitioner provides for security measures including, but not limited to, perimeter fencing, a main entrance security gate, power plant personnel on-site 24 hours per day, 7 days per week, in addition to a closed-circuit TV monitoring system, perimeter cameras, and perimeter breach detectors. The Petitioner does not employ full-time, on-site security guards as noted in the approved Operations Security Plan, and per the Final Decision, on-site security

personnel are not required. (See 2008 Final Decision, Condition HAZ-9 at pp. 103-104.)

The requested modification to COC WorkerSafety-5 will ensure consistency between

the requirements of the approved Operations Security Plan (HAZ-9) and WorkerSafety-5 and

will not affect the safety and security of WCEP, its employees, or the public.

**WORKER SAFETY-5** The project owner shall ensure that a portable automatic cardiac defibrillator is located on site during construction and operations and shall implement a program to ensure that the equipment is properly maintained and functioning at all times and that for each shift on-site personnel shall be trained in the American Heart Association's Heartsaver Automatic External Defibrillator (AED) Course, or equivalent, as follows:

Construction: minimum 4 personnel per shift, including one security guard, Operation: minimum 2 personnel per shift, including one security guard.

**Verification:** At least 30 days prior to the start of site mobilization the project owner shall submit to the CPM proof that a portable automatic cardiac defibrillator exists on site and a copy of the training and maintenance program for review and approval.

#### B. The Necessity for the Proposed Modification. (Section 1769(a)(1)(B).)

Section 1769(a)(1)(B) requires a discussion of the necessity of the proposed modifications. As further described in Attachment 2, the proposed change to COC AQ-4 is consistent with other like permit conditions for gas turbines permitted in the Los Angeles Basin such as AES Huntington Beach, El Segundo Energy Center and CPV Sentinel. The Petitioner believes that these Permits represent that the Best Available Control Technology (BACT) limit for ammonia slip has been demonstrated to be 5 ppm. Furthermore, the proposed change will ensure consistency with other references to the ammonia emissions limit throughout the CEC Final Decision for the WCEP which state 5 ppm. The proposed changes to COC AQ-7 are necessary to address the specific testing conditions and testing methods for PM<sub>10</sub> and PM<sub>2.5</sub> emissions and to ensure consistency with the requested revisions to the SCAQMD Title V Permit. The proposed modifications to COCs AQ-4 and AQ-7 will not affect the WCEP emissions or operating limits specified in the Project's COCs.

In addition, as described above, WCEP does not have on-site security guards nor are they required per the approved Operations Security Plan. Therefore, the Petitioner seeks the proposed minor modification to COC WorkerSafety-5, which will ensure consistency with the requirements of HAZ-9 and the approved Operations Security Plan. The proposed changes to WorkerSafety-5 will not affect the safety and security of WCEP or its employees.

#### C. The Proposed Modifications Are Based Upon Information Previously Unknown to Petitioner. (Section 1769(a)(1)(C).)

Section 1769(a)(1)(C) requires a discussion of whether the proposed changes are based on information previously known by Petitioner. In this case, the proposed modifications to COCs AQ-4, AQ-7 and WorkerSafety-5 were previously unknown to Petitioner. Specifically with regard to the proposed modification to COC AQ-4, the Petition is in response to a request for minor changes to the Title V Permit that was recently submitted to SCAQMD. The proposed corrections will ensure consistency with like conditions for other gas turbines permitted in the Los Angeles Basin, in addition to, the other references made to the ammonia emission limit in the CEC Final Decision and the Title V Permit.

With regard to the proposed modification to COC AQ-7, the Petition is based on an application recently submitted to the SCAQMD requesting minor changes to the Title V Permit, which clarifies language pertaining to  $PM_{10}$  and  $PM_{2.5}$  emission source test requirements. The proposed changes are necessary to ensure consistency with the recently submitted Permit application requesting changes to the SCAQMD Title V Permit.

As to the proposed modification to COC WorkerSafety-5, the Condition includes the term "security guard" within the Condition as one of the on-site personnel required to be trained to use an AED device. Pursuant to the approved Operations Security Plan, on-site

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security guards during plant operations are not required, as other security measures are in place and WCEP is in compliance with those approved security measures. (*See* 2008 Final Decision, Condition HAZ-9 at pp. 103-104.) The proposed minor modification to COC WorkerSafety-5 will ensure consistency with the requirements of HAZ-9 and the approved Operations Security Plan and will not affect the safety and security of WCEP or its employees.

#### D. The Proposed Modifications Do Not Change or Undermine the Assumptions, Rationale, or Other Bases of the Final Decision. (Section 1769(a)(1)(D).)

The proposed modifications to COCs AQ-4, AQ-7 and WorkerSafety-5 do not change or undermine the assumptions, rationale, or other bases of the Final Decision approving WCEP, or the Commission's subsequent amendments of the Final Decision. The proposed modifications are necessary to ensure consistency with the respective Title V permit and operations plans submitted to satisfy the respective COCs..

#### E. An Analysis of the Impacts the Proposed Modifications May Have on the Environment and Proposed Measures to Mitigate Any Significant Adverse Impacts (Section 1769(a)(1)(E).)

The proposed modifications to COCs AQ-4, AQ-7 and WorkerSafety-5 will not have a significant adverse impact on the environment because none of the proposed modifications change any of the emission or operating limits specified in the WCEP Final Decision, or subsequent amendments; nor will the proposed modifications affect security measures already in place at WCEP.

#### F. The Impacts of the Modification of the Facility's Ability to Comply with Applicable LORS (Section 1769(a)(1)(F).)

The proposed modifications will not impact WCEP's ability to comply with all applicable laws, ordinances, regulations, or standards ("LORS"). The proposed modifications do not change any of the emission and/or operating limits specified in the Conditions of Certification—they simply provide a correction to the ammonia emissions limit in COC AQ-4 and clarification language to COC AQ-7 pertaining to PM<sub>10</sub> and PM<sub>2.5</sub> emission source test requirements. Moreover, the proposed modifications to COC WorkerSafety-5 simply provide clarification as to personnel required to be trained to use the facility's on-site AED device. The clarification to COC WorkerSafety-5 will not impact WCEP's ability to comply with all LORS.

# G. How the Proposed Modifications May Affect the Public (Section 1769(a)(1)(G).)

The proposed modification to COC AQ-4 simply provides a correction to the ammonia emission limit from 5.0 ppm to 5 ppm. The proposed modifications to COC AQ-7 simply provide clarification language pertaining to  $PM_{10}$  and  $PM_{2.5}$  emission source test requirements. The proposed modification to COC WorkerSafety-5 clarifies the operations personnel required to be trained to use the facility's on-site AED device. As such, none of the proposed modifications will affect the public as the revisions will not change any of the emissions and/or operating limits specified in the Conditions of Certification, nor will the minor modifications impact the safety and security of WCEP.

# H. Potential Effect on Property Owners, the Public, and the Parties to the Application Proceeding (Section 1769(a)(1)(H) and (Section 1769(a)(1)(I).).)

Nearby property owners, the Public, and Parties to the Application Proceeding will not be affected by the proposed modifications since these changes will not change the emissions and/or operating limits specified in the Conditions of Certification. The proposed modifications provide a correction to the ammonia emissions limit in COC AQ-4, clarification language to COC AQ-7 pertaining to PM<sub>10</sub> and PM<sub>2.5</sub> emission source test requirements, as well as a minor modification to COC WorkerSafety-5 to clarify the personnel required to receive training to use the on-site AED device. Given there are no potentially affected property owners, a list is not included.

## IV. CONCLUSION

For all the reasons above, Petitioner respectfully requests that the Commission approve the proposed modifications to COCs AQ-4, AQ-7 and WorkerSafety-5 for the Walnut Creek Energy Park. Attachment 1 Application to Amend Title V Permit (January 21, 2016)

Walnut Creek Energy, LLC 911 Bixby Drive City of Industry, CA 91745-1702



January 19, 2016

Brian L. Yeh Sr. Air Quality Engineering Manager South Coast Air Quality Management District 21865 E. Copley Drive Diamond Bar, CA 91765-4182

#### Subject: <u>Walnut Creek Energy Park - Facility ID 146536</u> <u>RECLAIM/Title V Facility Permit</u>

Dear Mr.Yeh:

Walnut Creek Energy, LLC (WCE) is pleased to submit the enclosed District application forms requesting changes to conditions in the RECLAIM/Title V permit for the Walnut Creek Energy Park (WCEP) issued on May 4, 2012. We are requesting the following changes to the RECLAIM/Title V permit:

- Removal of the calibration requirement for the totalizing fuel meter for the emergency fire pump engine (Section H, Permit Conditions D12.6 for Device Number D34);
- Clarification that the inlet temperature requirements for the Selective Catalytic Reduction (SCR) do not apply during startup and shutdown periods (Section H, Permit Conditions D12.3 for Device Numbers C4, C10, C16, C22 and C28);
- Clarification that the operating load of 100 percent for PM<sub>10</sub> emission tests also applies to PM<sub>2.5</sub> emission tests (Section H, Permit Conditions D29.1 for Device Numbers D1, D7, D13, D19 and D25); and
- The addition of some applicable conditions from 40 CFR 60, Subpart IIII for the emergency fire pump engine.

The requested changes of conditions are discussed in more detail below.

## <u>Removal of the Calibration Requirement for the Fuel Meter for the</u> <u>Emergency Fire Pump Engine</u>

The RECLAIM/Title V Facility Permit (Section H, Permit Condition D12.6) includes a calibration requirement for the totalizing fuel meter for the emergency fire pump engine (Device number D34). To comply with the requirement, the totalizing fuel meter on the emergency fire pump Diesel engine must be removed and taken offsite to a laboratory for calibration. When the fuel meter is removed, the fire pump engine cannot be operated, which poses a certain risk to the facility if an emergency should occur.

Therefore, WCE requests that the calibration be removed from the permit condition. Because the change has no impact on emissions associated with any other permit requirements (i.e., emission limits, operating limits, monitoring/testing requirements, reporting requirements, etc.), WCE believes this change qualifies as a change of condition with no engineering evaluation needed under Rule 301<sup>1</sup> for fee purposes and qualifies as a minor Title V change under Regulation XXX<sup>2</sup>. The requested change to Permit Condition D12.6 is as follows:

D12.6 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the engine.

The operator shall also install and maintain a device to continuously record the parameter being measured.

*The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.* 

#### <u>Clarification Regarding SCR Operating Temperature</u>

The RECLAIM/Title V Facility Permit (Section H, Permit Condition D12.3, Device Numbers C4, C10, C16, C22, and C28) currently limits the inlet temperature for the gas turbine SCRs to between 715°F and 840°F. This SCR operating temperature range is appropriate during normal gas turbine operation. However, during gas turbine startups or shutdowns, there will be brief periods of time when the inlet SCR temperature will not be within the required temperature range. Therefore, WCE requests that a clarification be added to permit condition D12.3 to exclude gas turbine startups/shutdowns from this SCR operating temperature requirement. Because this change will have no impact on other permit requirements (i.e., emission limits, operating limits, monitoring/testing requirements, reporting requirements, etc.), WCE believes this change qualifies as a change of condition with no engineering evaluation needed under Rule 301<sup>1</sup> for fee purposes and qualifies as a minor Title V change under Regulation XXX.<sup>2</sup> The requested change to Permit Condition D12.3 is as follows:

D12.3 The operator shall install and maintain *a*(*n*) temperature gauge to accurately indicate the temperature of the exhaust at the inlet to the SCR reactor.

...<u>Excluding gas turbine startups and shutdowns</u>, <u>t</u>The catalyst temperature range shall remain between 715 degrees F and 840 degrees F...

<sup>&</sup>lt;sup>1</sup> SCAQMD Rule 301(c)(3)(C)

<sup>&</sup>lt;sup>2</sup> SCAQMD Rule 3000(b)(15)

#### Clarification Regarding PM<sub>2.5</sub> Emission Tests

The RECLAIM/Title V Facility Permit (Section H, Permit Conditions D29.1 for Device Numbers D1, D7, D13, D19 and D25) currently states that source tests will be conducted when the equipment operates at 100, 75, and 50 percent loads, with the exception of PM<sub>10</sub> testing. PM<sub>10</sub> emission testing is required to be conducted only at 100 percent operating load. This exception is required for PM<sub>10</sub> testing due to the extended amount of sampling time for PM<sub>10</sub> source tests. Since PM<sub>10</sub> and PM<sub>2.5</sub> emission source tests require the same amount of sampling time, we believe that this exception should also apply to the PM<sub>2.5</sub> source tests. Therefore, WCE requests that a clarification be added to permit condition D29.1 to include PM<sub>2.5</sub> source testing in the exception. Because this change will have no impact on other permit requirements (e.g., emission limits, operating limits, monitoring/testing requirements, reporting requirements, etc.), WCE believes this change qualifies as a change of condition with no engineering evaluation needed under Rule 301<sup>1</sup> for fee purposes and qualifies as a minor Title V change under Regulation XXX.<sup>2</sup> The requested change to Permit Condition D29.1 is as follows:

# *D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.* ...

The test shall be conducted when this equipment is operating at loads of 100, 75 and 50 percent, with the exception of PM10 <u>and PM2.5</u> testing. For PM10 <u>and PM2.5</u>, the test shall be conducted when this equipment is operating at a load of 100 percent. ...

## <u>Addition of the Applicable Requirements from 40 CFR Part 63,</u> <u>Subpart ZZZZ and 40 CFR Part 60, Subpart IIII for the Emergency</u> <u>Fire Pump Engine</u>

The National Emissions Standards for Hazardous Air Pollutants (NESHAP) for stationary reciprocating internal combustion engines (RICE) (Subpart ZZZZ) apply to all RICE located at both major and area sources. Therefore, this rule applies to the emergency fire pump Diesel engine operated by WCE. The emergency fire pump Diesel CI engine has a maximum power rating of 183 bhp, and is certified as a Tier 3 engine by the EPA.<sup>3</sup> Because the fire pump was installed at the WCEP in 2012, it is considered a new stationary RICE pursuant to 40 CFR 63.6590 (a)(2)(iii).<sup>4</sup>

Under 40 CFR 63.6590(c), a new RICE located at an area source with a rating of less than or equal to 500 bhp is allowed to comply with NESHAP Subpart ZZZZ by complying with the applicable requirements of 40 CFR 60 Subpart IIII for compression ignition engines. The emergency firepump Diesel engine at WCEP qualifies for this compliance option. A review of the current SCAQMD permit shows that most of the applicable requirements of 40 CFR Part 60, Subpart IIII for the emergency fire pump engine are already included as permit conditions. The only Subpart IIII requirement not specifically

<sup>&</sup>lt;sup>3</sup> The fire pump engine is a certified Tier 3 engine under engine family CJDX306.8120.

<sup>&</sup>lt;sup>4</sup> 40 CFR 63.6590 (a)(2)(iii) states that "[a] stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006."

required in the SCAQMD permit for the emergency fire pump engine is the use of ultralow sulfur Diesel fuel (40 CFR 60.4207). WCE proposes that for clarification purposes, the Diesel fuel sulfur content be added to the permit conditions. Because this change will have no impact on other permit requirements (i.e., emission limits, operating limits, monitoring/testing requirements, reporting requirements, etc.), WCE believes this change qualifies as a change of condition with no engineering evaluation needed under Rule 301<sup>1</sup> for fee purposes and qualifies as a minor Title V change under Regulation XXX<sup>2</sup>. The requested additional permit condition is as follows:

The operator shall not use any Diesel fuel unless the fuel is low sulfur Diesel for which the sulfur content shall not exceed 15 ppm by weight as supplied by the supplier.

#### Permit Application Fee

Enclosed are the SCAQMD application forms for the requested changes to the permit conditions. Also enclosed is a check in the amount of \$8,334.03 payable to the District to cover the filing fee for the requested permit change. The amount of this filing fee was determined based on the SCAQMD's online permit application filing fee calculator (SCAQMD Fee Sheet is also included in Appendix I), as summarized below.

- Change of condition for SCR operating temperature for first SCR (change of condition per SCAQMD Rule 301(c)(3)(C), Equipment Schedule C, Re-Issuance Fee): \$792.43
- Change of condition for SCR operating temperature for the remaining four SCR (change of condition per SCAQMD Rule 301(c)(3)(C), Equipment Schedule C, Re-Issuance Fee, and 50% discount for each SCR for identical units per SCAQMD Rule 301(c)(1)(F)): \$1,584.88
- Change of condition for PM<sub>2.5</sub> source testing for first gas turbine (change of condition per SCAQMD Rule 301(c)(3)(C), Equipment Schedule G, Re-Issuance Fee): \$ 792.43
- Change of condition for PM<sub>2.5</sub> source testing for the remaining four gas turbines (change of condition per SCAQMD Rule 301(c)(3)(C), Equipment Schedule G, Re-Issuance Fee, and 50% discount for each SCR for identical units per SCAQMD Rule 301(c)(1)(F)): \$1,584.88
- Change of condition for the emergency fire pump engine for the removal of the calibration requirement for the fuel flow meter (change of condition per SCAQMD Rule 301(c)(3)(C), Equipment Schedule B, Re-Issuance Fee): \$792.43
- Change of condition for the addition of the 40 CFR Part 60 Subpart IIII Diesel fuel sulfur requirement for the fire pump engine (change of condition per SCAQMD Rule 301(c)(3)(C), Equipment Schedule G, Re-Issuance Fee): \$ 792.43

- Title V/RECLAIM permit change of conditions (Facility Permit Amendment for application with no engineering evaluation per SCAQMD Rule 301(I)(5)): \$1,994.55
- Total fee required: \$8,334.03

If you have any questions or need further information, please don't hesitate to contact me at (626) 968-0360.

Sincerely,

Jeath

Heather MacLeod Environmental Specialist

Attachments

WCEP O&M File: 3.3.2.2

cc: Camille Remy Obad, CEC CEC Dockets (05-AFC-2C) Rick McPherson, NRG Energy George Piantka, NRG Energy Apeetha Jain, NRG Energy Tom Andrews, Sierra Research

### ATTACHMENT I

## SCAQMD APPLICATION FORMS AND FEE SHEET

# SCAQMD Permit Processing Fees Portal

## Fee Sheet

Below are the permit fees calculated based on the information entered. Click the "Print" button to print the Fee Sheet for your records.

Print	Restart
Permit Unit IC Engine, Emergency, 51 - 500 HP	\$792.43
Permit Unit	\$10 <u>1</u> .10
IC Engine, Emergency, 51 - 500 HP	\$792.43
Permit Unit	
Selective Catalytic Reduction (SCR)	\$792.43
Selective Catalytic Reduction (SCR) (4 Identical)	\$1,584.88
Permit Unit	
Gas Turbine, 50 MW, other fuel	\$792.43
Gas Turbine, 50 MW, other fuel (4 Identical)	\$1,584.88
Facility Permit Revision Fee	
Administrative Permit Revision Fee	\$1,994.55
Summary	
Permit Fees	\$6,339.48
Expedited Processing Fees	\$0.00
Higher Fees	\$0.00
Small Business Discount	\$0.00
Total:	\$8,334.03

Back

Generate Voucher

South Coast Air Quality Management District Form 400-A Application Form for Permit List only one piece of equipment or process per form.	or Plan Appr	oval		Mail T SCAOM P.O. Box 49 Diamond Bar, CA 91765-09 Tel: (909) 396-33 www.aqmd.g
Section A - Operator Information			-	
1. Facility Name (Business Name of Operator to Appear on the Per	mit):		2	2. Valid AQMD Facility ID (Available On
Walnut Creek Energy, LLC				Permit Or Invoice Issued By AQMD):
3. Owner's Business Name (If different from Business Name of Op	erator):			146536
Section B - Equipment Location Address		Section C - Permit	Mailing Address	and the second second
4. Equipment Location Is:      (For equipment operated at various locations, provide address) 911 Bixby Dr Street Address	<ul> <li>Various Location ss of initial site.)</li> </ul>	5. Permit and Corresp Check here if so 911 Bixby Dr Address	ondence Information: ame as equipment locatio	on address
City of Industry , CA 9174	5	City of Industry		, CA 91745
City         Zip           Heather MacLeod         Environmen           Contact Name         Title	tal Specialist	City Heather MacLeo Contact Name	d	State Zip Environmental Specialist Tite
(626) 968-0360 Phone # Ext. Fax #	21.9	(626) 968-0360 Phone #	Ext.	(626) 968-0379 Fax #
E-Mail: Heather.MacLeod@nrg.com		E-Mail: Heather.Ma	and the	
Section D - Application Type		1		
6. The Facility Is: O Not In RECLAIM or Title V	O In RECLAIM	O In Title V	In RECLAIM & TI	itle V Programs
7. Reason for Submitting Application (Select only ONE):				
7a. New Equipment or Process Application:	7c. Equipment or F	Process with an Existing	g/Previous Application	or Permit:
New Equipment of Process Application.     New Construction (Permit to Construct)	<ul> <li>Administrative</li> </ul>	a stand of the the stand head on a	gir retrous Application s	
Equipment On-Site But Not Constructed or Operational     Equipment Operating Without A Permit *     Compliance Plan     Registration/Certification     Streamlined Standard Permit	<ul> <li>Alteration/Modi</li> <li>Alteration/Modi</li> <li>Change of Con</li> </ul>	fication fication without Prior App dition dition without Prior Appro		Existing or Previous Permit/Application If you checked any of the items in 7c., you MUST provide an existing Permit or Application Number;
7b. Facility Permits:	Change of Loca	ation without Prior Approv	ral *	
Title V Application or Amendment (Refer to Title V Matrix)     RECLAIM Facility Permit Amendment		erating with an Expired/In essing Fee and additional Ar		3 full years) may apply (Rule 301(c)(1)(D)(i)).
	timated End Date of C	Construction (mm/dd/yy)	y): 8c. Estimated St	tart Date of Operation (mm/dd/yyyy):
<ol> <li>Description of Equipment or Reason for Compliance Plan (in Title V minor changes of conditions with no engineer</li> </ol>	ring evaluation	applications are b (Form 400-A require	pment, how many addit eing submitted with thi ed for each equipment / j	is application? process)
erediere en lees one a her le presidenting center)	n? No OYes		Violation (NOV) or a No en issued for this equip If Yes, provide NO	oment? ONO OYes
Section E + Facility Business Information 13. What type of business is being conducted at this equipmen electric generation	it location?		ness primary NAICS Co dustrial Classification Sys	
15 Are there other facilities in the SCAOMD	No O Yes	16. Are there any sch 1000 feet of the fa	ools (K-12) within cility property line?	No Yes
			and the second se	application are true and correct
17. Signature of Responsible Official:	18. Title of Responsib Plant Manage		19. I wish to review the (This may cause a c application process	
20. Print Name: Rick McPherson	21. Date: 1/14	+/16	22. Do you claim cont data? (If Yes, see	
23. Check List: X Authorized Signature/Date	Form 400-CEQA	Supplementa	l Form(s) (ie., Form 400	-E-xx) X Fees Enclosed
AOMD APPLICATION TRACKING # CHECK # AMO	OUNT RECEIVED	PAYMENT TRAC	KING #	VALIDATION
	EQUIPMENT CATEGORY	CODE TEAM ENGINE	ER REASON/ACTION TAI	KEN

South Coast Air Quality Management District Form 400-A Application Form for Permit List only one piece of equipment or process per form.		oval		c	Diamond Bar, CA Tel: (9	Mail To: SCAQMD P.O. Box 4944 A 91765-0944 (09) 396-3385 ww.aqmd.gov
Section A - Operator Information						
1. Facility Name (Business Name of Operator to Appear on the Per	mit):				D Facility ID (A	
Walnut Creek Energy, LLC				Permit Or	Invoice Issued E	ly AQMD):
3. Owner's Business Name (If different from Business Name of Op	perator):			-	146536	_
Section B - Equipment Location Address		Section C - Permit	Mailing Address			
	Various Location ess of initial site.)	5. Permit and Corresp	oondence Information: ame as equipment local			
City of Industry , CA 9174	5	City of Industry		, CA	91745	
City         Zip           Heather MacLeod         Environmer           Contact Name         Title           (626) 968-0360         (626) 968-0           Phone #         Ext.	ntal Specialist	City Heather MacLeo Contact Name (626) 968-0360 Phone #	Ext.	Title (626) 9 Fax#	Zip Imental Spe 68-0379	cialist
E-Mail: Heather.MacLeod@nrg.com		E-Mail: Heather.Wa	acLeod@nrg.com			
Section D - Application Type						
6. The Facility Is: O Not In RECLAIM or Title V	O In RECLAIM	O In Title V	In RECLAIM &	Title V Progra	ims	
7. Reason for Submitting Application (Select only ONE):						
<ul> <li>New Construction (Permit to Construct)</li> <li>Equipment On-Site But Not Constructed or Operational</li> <li>Equipment Operating Without A Permit *</li> <li>Compliance Plan</li> <li>Registration/Certification</li> <li>Streamlined Standard Permit</li> <li>7b. Facility Permits:</li> <li>Title V Application or Amendment (Refer to Title V Matrix)</li> <li>RECLAIM Facility Permit Amendment</li> <li>8a. Estimated Start Date of Construction (mm/dd/yyyy):</li> <li>8b. Estimated Start Date of Construction (mm/dd/yyyy):</li> </ul>	<ul> <li>Change of Con</li> <li>Change of Con</li> <li>Change of Loca</li> <li>Change of Loca</li> <li>Change of Loca</li> <li>Equipment Ope</li> <li>A Higher Permit Proc</li> </ul>	fication fication without Prior App dition dition without Prior Approv ation ation without Prior Approv erating with an Expired/In	on or Permit: Existing or Previous Permit/Application If you checked any of the ite 7c., you MUST provide an ex- Permit or Application Numi 538809 to 3 full years) may apply (Rule 301(c)(1) I Start Date of Operation (mm/dd/y		on e items in n existing umber: (c)(1)(D)(i)).	
9. Description of Equipment or Reason for Compliance Plan (I Selective Catalytic Reduction for GT 1, Device C4	ist applicable rule):		pment, how many add being submitted with the red for each equipment	his application	n?	1
tooplace of loss <u>err</u> a not for promobility solution	n? No OYes		Violation (NOV) or a N en issued for this equ If Yes, provide NO	ipment?	• No	O Yes
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15 Are there other facilities in the SCAOMD	No O Yes	16. Are there any sch		e e	No	O Yes
Section F - Authorization/Signature Thereby certify 17. Signature of Responsible Official: Mile Mathematical 20. Print Name: Rick McPherson	18. Title of Responsib Plant Manage 21. Date: 1/14/1	itained herein and inform. Ne Official: Pr	ation submitted with this 19. I wish to review t (This may cause a application proce 22. Do you claim co data? (If Yes, se	he permit pric a delay in the ss.) nfidentiality o e instructions.)	f      No	O No Yes Yes
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South Coast Air Quality Management District Form 400-A Application Form for Permit List only one piece of equipment or process per form.		oval				Diamond Bar, CA Tel: (9	Mail To: SCAQMD .O. Box 4944 91765-0944 09) 396-3385 ww.aqmd.gov
Section A - Operator Information			1	1.17			1 3
1. Facility Name (Business Name of Operator to Appear on the Per	mit):			1		MD Facility ID (Av	
Walnut Creek Energy, LLC					Permit C	r Invoice Issued B	y AQMD):
3. Owner's Business Name (If different from Business Name of Op	erator):				-	146536	_
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City of Industry , CA 9174	5	City of Indu	ustry		, CA	91745	
City         Zip           Heather MacLeod         Environmer           Contact Name         Title           (626) 968-0360         (626) 968-0360           Phone #         Ext.	ntal Specialist	City Heather M Contact Name (626) 968-0 Phone #		Ext.	Title	Zip onmental Spe 968-0379	cialist
E-Mail: Heather.MacLeod@nrg.com		E-Mail: Heath	ner.MacLeo	d@nrg.com			
Section D - Application Type						1	
6. The Facility Is: O Not In RECLAIM or Title V	O In RECLAIM	O In Titl	eV 💿	n RECLAIM & T	itle V Prog	rams	
7. Reason for Submitting Application (Select only ONE):							
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New Construction (Permit to Construct)     Equipment On-Site But Not Constructed or Operational     Equipment Operating Without A Permit *     Compliance Plan     Registration/Certification     Streamlined Standard Permit 7b. Facility Permits:     Title V Application or Amendment (Refer to Title V Matrix)     RECLAIM Facility Permit Amendment 8a. Estimated Start Date of Construction (mm/dd/yyyy):     8b. Estimated Start Date of Construction (mm/dd/yyyy):	<ul> <li>Alteration/Modi</li> <li>Alteration/Modi</li> <li>Change of Con</li> <li>Change of Con</li> <li>Change of Loca</li> <li>Change of Loca</li> <li>Change of Loca</li> <li>Equipment Ope</li> </ul>	lodification without Prior Approval * Condition Condition without Prior Approval *			Existing or Previous Permit/Application If you checked any of the items i 7c., you MUST provide an existir Permit or Application Number: 538811 o 3 full years) may apply (Rule 301(c)(1)(D) Start Date of Operation (rmm/dd/yyyy		
9. Description of Equipment or Reason for Compliance Plan (I Selective Catalytic Reduction for GT 2, Device C10			ns are being su	how many addit bmitted with thi ach equipment /	is applicati	on? 4	
11. Are you a Small Business as per AQMD's Rule 102 definition (10 employees or less and total gross receipts are \$500,000 or less <u>OR</u> a not-for-profit training center)	on? D No 🔿 Yes	12. Has a No	tice of Violatio (NC) been issue	n (NOV) or a No ed for this equip 'es, provide NO'	tice to ment?	No	O Yes
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jurisdiction operated by the same operator r	No 🔿 Yes	1000 feet (	any schools (K of the facility p	operty line?		No	O Yes
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Rick McPherson	21. Date: 1/14	16	da	ata? (If Yes, see	instructions	i.) 💿 No	O Yes
23. Check List: X Authorized Signature/Date	Form 400-CEQA	Suppl	emental Form(	s) (ie., Form 400	-E-xx)	X Fees Enclo	osed
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South Coast Air Quality Management District Form 400-A Application Form for Permit List only one piece of equipment or process per form.		oval				Mail To: SCAQMD P.O. Box 4944 Diamond Bar, CA 91765-0944 Tel: (909) 396-3385 www.aqmd.gov	
Section A - Operator Information					-		
1. Facility Name (Business Name of Operator to Appear on the Per	mit):				2. Valid A	AQMD Facility ID (Available On	
Walnut Creek Energy, LLC					Permi	it Or Invoice Issued By AQMD):	
3. Owner's Business Name (If different from Business Name of Op	perator);					146536	
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Phone # Ext. Fax #		Phone		Ext.	Fax #		
E-Mail: Heather.MacLeod@nrg.com		E-Mail:	Heather.	MacLeod@nrg.com	n		
Section D - Application Type		-					
6. The Facility Is: O Not In RECLAIM or Title V	O In RECLAIM	C	In Title V	In RECLAIM	Title V Pr	rograms	
7. Reason for Submitting Application (Select only ONE):							
7a. New Equipment or Process Application:	7c. Equipment or f	Process	with an Exist	ing/Previous Applicatio	n or Perm	lt:	
New Construction (Permit to Construct)     Equipment On-Site But Not Constructed or Operational     Equipment Operating Without A Permit *     Compliance Plan     Registration/Certification     Streamlined Standard Permit      Tb. Facility Permits:     Title V Application or Amendment (Refer to Title V Matrix)     RECLAIM Facility Permit Amendment 8a. Estimated Start Date of Construction (mm/dd/yyyy):     8b. Estimated Start Date of Construction (mm/dd/yyyy):	<ul> <li>Alteration/Modi</li> <li>Alteration/Modi</li> <li>Change of Con</li> <li>Change of Con</li> <li>Change of Loci</li> <li>Change of Loci</li> <li>Change of Loci</li> <li>Equipment Operation</li> </ul>	Modification without Prior Approval * Condition Condition without Prior Approval * Location Location without Prior Approval * t Operating with an Expired/Inactive Permit * t Processing Fee and additional Annual Operating Fees (up)			Existing or Previous Permit/Application If you checked any of the items 7c., you MUST provide an existi Permit or Application Number: 538812 of to 3 full years) may apply (Rule 301(c)(1)(0) d Start Date of Operation (mm/dd/yyyy		
9. Description of Equipment or Reason for Compliance Plan (I Selective Catalytic Reduction for GT 3, Device C16		ap	oplications ar	uipment, how many ac e being submitted with uired for each equipmen	this applic		
everyout of loss off a not for pront daming contery	on? D No 🔿 Yes	12.	Has a Notice Comply (NC)	of Violation (NOV) or a been issued for this eq If Yes, provide I	uipment?		
Section E - Facility Business Information 13. What type of business is being conducted at this equipmen electric generation	nt location?	14. W	'hat is your b Iorth Americar	usiness primary NAICS Industrial Classification	Code? System)	221112	
Jurisdiction operated by the same operator?	No O Yes	10	000 feet of the	chools (K-12) within facility property line?		No O Yes	
17. Signature of Responsible Official:	18. Title of Responsit Plant Manage	ole Offici er		The submitted with the submitted	the permit a delay in cess.) onfidential	t prior to issuance. O No the Yes	
Rick McPherson 1/14/16				data? (If Yes, s	ee instructi	ions.) 💿 No 🔿 Yes	
23. Check List: X Authorized Signature/Date	Form 400-CEQA	E	Suppleme	ntal Form(s) (ie., Form	00-E-xx)	X Fees Enclosed	
	DUNT RECEIVED		PAYMENT TR	ACKING #		VALIDATION	
	EQUIPMENT CATEGORY	CODE	TEAM ENG	NEER REASON/ACTION	TAKEN		

South Coast Air Quality Management District Form 400-A Application Form for Permit or P List only one piece of equipment or process per form.	Plan Appro	oval			Diamond Bar, CA Tel: (9	Mail To: SCAQMD O. Box 4944 91765-0944 09) 396-3385 vw.aqmd.gov
Section A - Operator Information						
1. Facility Name (Business Name of Operator to Appear on the Permit):					MD Facility ID (Av	
Walnut Creek Energy, LLC				Permit C	Or Invoice Issued B	y AQMD):
3. Owner's Business Name (If different from Business Name of Operator)	):			-	146536	_
Section B - Equipment Location Address		Section C - Pe	ermit Mailing Address		1.2	
	rious Location nitial site.)					
City of Industry , CA 91745		City of Indus	try	, CA	91745	
City     Zip       Heather MacLeod     Environmental S       Contact Name     Title       (626) 968-0360     (626) 968-0379       Phone #     Ext.       E-Mail:     Heather.MacLeod@nrg.com	pecialist	City Heather Mac Contact Name (626) 968-03 Phone #		Title (626) Fax #	Zip onmental Spe 968-0379	cialist
		E-Wall. Trouting	indocood@ing.con			
Section D - Application Type		0.1. 1941.1		-	- Artes	
	In RECLAIM	O In Title \	/  In RECLAIM &	Title V Prog	jrams	
7. Reason for Submitting Application (Select only ONE):         7a. New Equipment or Process Application:       7c.	1000			-		
Equipment On-Site But Not Constructed or Operational     Equipment Operating Without A Permit *     Compliance Plan     Registration/Certification     Streamlined Standard Permit <b>7b. Facility Permits:</b> Title V Application or Amendment (Refer to Title V Matrix)     RECLAIM Facility Permit Amendment     *A	Change of Cond Change of Cond Change of Local Change of Local Change of Local Equipment Oper Higher Permit Proce	cation cation without Prior lition lition without Prior tion without Prior A rating with an Expir	Approval * pproval * red/Inactive Permit * mal Annual Operating Fees (up	val * val * nnual Operating Fees (up to 3 full years) may apply (Rule		n items in existing umber: 
9. Description of Equipment or Reason for Compliance Plan (list app Selective Catalytic Reduction for GT 4, Device C22	licable rule):	applications	equipment, how many ad are being submitted with required for each equipmen	this applicat	ion?4	
11. Are you a Small Business as per AQMD's Rule 102 definition?         (10 employees or less and total gross receipts are         \$500,000 or less <u>OR</u> a not-for-profit training center)         (Instrument of the second s	O Yes	12. Has a Notic Comply (N	ce of Violation (NOV) or a C) been issued for this eq If Yes, provide N	uipment?	• No	O Yes
Section E - Facility Business Information 13. What type of business is being conducted at this equipment local electric generation	tion?		r business primary NAICS can Industrial Classification		221	112
15. Are there other facilities in the SCAQMD jurisdiction operated by the same operator?       No	O Yes	1000 feet of	y schools (K-12) within the facility property line?		No	O Yes
17. Signature of Responsible Official:       18. Tit         Juit Multi       P         20. Print Name:       21. Da         Rick McPherson       P	le of Responsibl lant Manager	e Official: r 16	10rmation submitted with th 19. I wish to review (This may cause application proc 22. Do you claim c data? (If Yes, s mental Form(s) (ie., Form 4	the permit p a delay in the ess.) onfidentiality ee instruction	rior to issuance.	O No Yes Yes
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South Coast Air Quality Management District Form 400-A Application Form for Permit List only one piece of equipment or process per form		oval			Diamond Bar, CA Tel: (9	Mail To: SCAQMD .O. Box 4944 .91765-0944 09) 396-3385 ww.aqmd.gov
Section A - Operator Information	1					
1. Facility Name (Business Name of Operator to Appear on the Pe	rmit):				MD Facility ID (Av	
Walnut Creek Energy, LLC				Permit C	Or Invoice Issued B	IY AQMD):
3. Owner's Business Name (If different from Business Name of Op	perator):			-	146536	_
Section B - Equipment Location Address	and the second second	Section C - Per	mit Mailing Address	1		
(For equipment operated at various locations, provide addre 911 Bixby Dr	Various Location ess of initial site.)	S Check here 911 Bixby Dr	espondence Information if same as equipment loca			
Street Address City of Industry .CA 9174	E	Address City of Industr		, CA	91745	
City of Industry , CA 9174 City Zip	10	City	<u>y</u>	State	Zip	
Heather MacLeod Environme Contact Name Title	ntal Specialist	Heather MacL Contact Name		Title	onmental Spe	cialist
(626) 968-0360 (626) 968-0 Phone # Ext. Fax #	379	(626) 968-036 Phone #	Ext.	(626) Fax #	968-0379	
E-Mail: Heather.MacLeod@nrg.com		- Andrew and the second s	MacLeod@nrg.cor	n		
Section D - Application Type						
6. The Facility Is: O Not In RECLAIM or Title V	O In RECLAIM	O In Title V	In RECLAIM &	& Title V Prog	irams	
7. Reason for Submitting Application (Select only ONE):						
7a. New Equipment or Process Application:	7c. Equipment or F	Process with an Exis	ting/Previous Applicatio	on or Permit:		
New Construction (Permit to Construct)	O Administrative					
C Equipment On-Site But Not Constructed or Operational	O Alteration/Modi				Existing or Previo Permit/Application	
<ul> <li>Equipment Operating Without A Permit *</li> </ul>		fication without Prior A	Approval *		and a state of the	
O Compliance Plan	Change of Con		· Xaaaa		checked any of the u MUST provide an	
O Registration/Certification	O Change of Con	dition without Prior Ap	proval *		umber:	
O Streamlined Standard Permit	C Change of Loca	ation				
7b. Facility Permits:	Change of Loca	ation without Prior App	proval *	-	538825	
O Title V Application or Amendment (Refer to Title V Matrix)	<ul> <li>Equipment Ope</li> </ul>	erating with an Expired	I/Inactive Permit *	1		
RECLAIM Facility Permit Amendment	* A Higher Permit Proc	essing Fee and additiona	I Annual Operating Fees (up	to 3 full years)	may apply (Rule 301(	(c)(1)(D)(i)).
	stimated End Date of (	Construction (mm/dd	/yyyy): 8c. Estimated	Start Date o	f Operation (mm/c	id/yyyy):
			10.22*			
<ol> <li>Description of Equipment or Reason for Compliance Plan Selective Catalytic Reduction for GT 5, Device C28</li> </ol>	1	applications a	quipment, how many ac re being submitted with quired for each equipmen	this applicat	ion?	\$
dobated of 1000 Off a not for pront family contary	on? • No 🔿 Yes	12. Has a Notice Comply (NC)	of Violation (NOV) or a been issued for this eq If Yes, provide N	uipment?	• No	O Yes
Section E - Facility Business Information	nt leastic=0	[ 4.4 JUN - + 1		Cad-D		
13. What type of business is being conducted at this equipme electric generation	nt location?	14. What is your b (North America	usiness primary NAICS n Industrial Classification	System)	221	112
15 Are there other facilities in the SCAOMD	No Yes	16. Are there any	schools (K-12) within e facility property line?	4,4,4,4,4	() No	O Yes
	v that all information cor	NAME AND ADDRESS OF TAXABLE PARTY.	ormation submitted with th	is application	are true and corre-	cl.
17. Signature of Responsible Official:	18. Title of Responsit Plant Manage	ole Official:	19. I wish to review (This may cause	the permit p a delay in the	rior to issuance.	O No Yes
20. Print Name: Rick McPherson	21. Date:	¥/16	22. Do you claim c data? (If Yes, s	onfidentiality	of (of No	O Yes
pros la construcción de la constru	Form 400-CEQA	-	ental Form(s) (ie., Form		X Fees Encl	
AQMD APPLICATION TRACKING # CHECK # AM	OUNT RECEIVED	PAYMENT TH			ALIDATION	
DATE APP DATE APP CLASS BASIC REJ REJ I III CONTROL	EQUIPMENT CATEGORY	CODE TEAM ENG	INEER REASON/ACTION	TAKEN		

South Coast Air Quality Management District Form 400-A Application Form for Permit of List only one piece of equipment or process per form.	or Plan Appr	oval			Diamond Bar, CA Tel: (90	Mail To: SCAQMD O. Box 4944 91765-0944 99) 396-3385 ww.aqmd.gov
Section A - Operator Information	1.000					
1. Facility Name (Business Name of Operator to Appear on the Perm	nit):				AD Facility ID (Av	
Walnut Creek Energy, LLC				Permit O	Invoice Issued B	y AQMD):
3. Owner's Business Name (If different from Business Name of Ope	rator):			-	146536	_
Section B - Equipment Location Address		Section C - Perm	it Mailing Address			
4. Equipment Location Is:      Fixed Location     (For equipment operated at various locations, provide address 911 Bixby Dr Street Address	Various Location s of initial site.)		pondence Information: same as equipment locat	ion address		
City of Industry , CA 91745	5	City of Industry		, CA	91745	
City Zip Heather MacLeod Environment Contact Name Title (626) 968-0360 (626) 968-03		City Heather MacLe Contact Name (626) 968-0360		Title	Zip nmental Sper 968-0379	cialist
Phone # Ext. Fax #		Phone #	Ext.	Fax #		
E-Mail: Heather.MacLeod@nrg.com		E-Mail: Heather.M	lacLeod@nrg.com			
Section D - Application Type						
6. The Facility Is: O Not In RECLAIM or Title V	O In RECLAIM	🔿 In Title V	In RECLAIM &	Title V Progr	ams	
7. Reason for Submitting Application (Select only ONE):						
7a. New Equipment or Process Application:	7c. Equipment or F	Process with an Existi	ng/Previous Application	or Permit:		
New Construction (Permit to Construct)     Equipment On-Site But Not Constructed or Operational     Equipment Operating Without A Permit *     Compliance Plan     Registration/Certification     Streamlined Standard Permit	<ul> <li>Change of Con</li> <li>Change of Con</li> <li>Change of Loca</li> </ul>	fication without Prior Ap dition dition without Prior App ation	roval *	F If you cl 7c., you	xisting or Previou Permit/Applicatio necked any of the MUST provide an t or Application Nu 538796	n items in existing
7b. Facility Permits:		ation without Prior Appro				
<ul> <li>Title V Application or Amendment (Refer to Title V Matrix)</li> </ul>	and the second second	erating with an Expired/I		1		
O RECLAIM Facility Permit Amendment			Annual Operating Fees (up to		1 1 1 1 1	
8a. Estimated Start Date of Construction (mm/dd/yyyy): 8b. Est	imated End Date of 0	Construction (mm/dd/y	yyy): 8c. Estimated \$	Start Date of	Operation (mm/d	d/yyyy):
9. Description of Equipment or Reason for Compliance Plan (lis Gas turbine 1, Device D1	st applicable rule):	applications are	ulpment, how many add being submitted with th ired for each equipment.	nis applicatio	on?4	
edde, dde of 1655 off a not for proint a dining contery	No O Yes		f Violation (NOV) or a N een issued for this equ If Yes, provide NC	ipment?	• No	O Yes
Section E - Facility Business Information 13. What type of business is being conducted at this equipment electric generation	location?		siness primary NAICS C Industrial Classification S		221	112
15 Are there other facilities in the SCAOMD	No O Yes	16. Are there any so		Jotomy	( No	O Yes
	that all information con	and the second sec	nation submitted with this	application a	re true and correc	t.
	8. Title of Responsit Plant Manage	le Official:	19. I wish to review t (This may cause a application proce	he permit pri delay in the	the same in case of the same state of the same s	O No Yes
20. Print Name: 2 Rick McPherson 2	1. Date: 1/14/1	4	22. Do you claim co data? (If Yes, se			O Yes
23. Check List: X Authorized Signature/Date	Form 400-CEQA	Supplemen	tal Form(s) (ie., Form 40	0-E-xx)	X Fees Enclo	osed
AOMD APPLICATION TRACKING # CHECK # AMOL USE ONLY \$	JNT RECEIVED	PAYMENT TRA	CKING #	V.	ALIDATION	
	QUIPMENT CATEGORY	CODE TEAM ENGIN	EER. REASON/ACTION T	AKEN		

South Coast Air Quality Management District Form 400-A Application Form for Permit of List only one piece of equipment or process per form.	Mail To: SCAQMD P.O. Box 4944 Diamond Bar, CA 91765-0944 Tel: (909) 396-3385 www.aqmd.got			
Section A - Operator Information		- Alter i Grand and		
1. Facility Name (Business Name of Operator to Appear on the Perm	nit):			2. Valid AQMD Facility ID (Available On
Walnut Creek Energy, LLC				Permit Or Invoice Issued By AQMD):
3. Owner's Business Name (If different from Business Name of Ope	erator):			146536
Section B - Equipment Location Address		Section C - Permit	Mailing Address	190
	Various Location as of initial site.)	5. Permit and Corresp Check here if sa 911 Bixby Dr Address	ondence Information: ime as equipment local	
City of Industry , CA 91745	5	City of Industry		, CA 91745
City Zip	tal Specialist	City Heather MacLeo Contact Name (626) 968-0360 Phone # E-Mail: Heather.Ma	Ext.	State Zip Environmental Specialist Title (626) 968-0379 Fax #
Section D - Application Type			-	
6. The Facility Is: O Not In RECLAIM or Title V	O In RECLAIM	O In Title V	In RECLAIM &	Title V Programs
7. Reason for Submitting Application (Select only ONE):				
7a. New Equipment or Process Application:         New Construction (Permit to Construct)         Equipment On-Site But Not Constructed or Operational         Equipment Operating Without A Permit *         Compliance Plan         Registration/Certification         Streamlined Standard Permit         7b. Facility Permits:         Title V Application or Amendment (Refer to Title V Matrix)         RECLAIM Facility Permit Amendment         8a. Estimated Start Date of Construction (mm/dd/yyyy):         8b. Estimated	Administrative     Alteration/Modi     Alteration/Modi     Change of Com     Change of Com     Change of Locc     Change of Locc     Change of Locc     Equipment Ope     * A Higher Permit Proc	fication fication without Prior Appr idition idition without Prior Appro ation ation without Prior Approv erating with an Expired/In:	roval * val * al * active Permit * inual Operating Fees (up t	n or Permit: Existing or Previous Permit/Application If you checked any of the items in 7c., you MUST provide an existing Permit or Application Number: 538801 to 3 full years) may apply (Rule 301(c)(1)(D)(i)). Start Date of Operation (mm/dd/yyyy):
9. Description of Equipment or Reason for Compliance Plan (li Gas turbine 2, Device D7	st applicable rule):	applications are b	pment, how many add being submitted with the red for each equipment	this application?
11. Are you a Small Business as per AQMD's Rule 102 definition (10 employees or less and total gross receipts are \$500,000 or less <u>OR</u> a not-for-profit training center)	n? ) No 🔿 Yes		Violation (NOV) or a N en issued for this equ If Yes, provide N	ipment? ONO Yes
Section E - Facility Business Information 13. What type of business is being conducted at this equipmen electric generation	t location?	14. What is your busi (North American In	ness primary NAICS	
15 Are there other facilities in the SCAOMD	No O Yes	16. Are there any sch 1000 feet of the fa	ools (K-12) within acility property line?	
17. Signature of Responsible Official:	18. Title of Responsit Plant Manage 21. Date:	ole Official:	which has been starting to be a series of the second s	ess.)       Yes  phildentiality of ee Instructions.)      No      Yes
23. Check List: X Authorized Signature/Date	Form 400-CEQA	Supplementa	l Form(s) (ie., Form 4	00-E-xx) X Fees Enclosed
USE ONLY S	UNT RECEIVED	CODE TEAM ENGINE		VALIDATION

South Coast Air Quality Management District Form 400-A Application Form for Permit List only one piece of equipment or process per form.	or Plan Appr	oval		D	iamond Bar, CA Tel: (9	Mail To: SCAQMD P.O. Box 4944 A 91765-0944 009) 396-3385 ww.aqmd.gov
Section A - Operator Information						
1. Facility Name (Business Name of Operator to Appear on the Per	mit):			2. Valid AQMD		
Walnut Creek Energy, LLC				Permit Or I	nvoice Issued E	ly AQMD):
3. Owner's Business Name (If different from Business Name of Op	erator):			_	146536	_
Section B - Equipment Location Address		Section C - Permi	t Mailing Address			
(For equipment operated at various locations, provide addre 911 Bixby Dr	Various Location ss of initial site.)		pondence Information: ame as equipment loca			
Street Address	-	Address				
City of Industry , CA 9174. City Zip	5	City of Industry		, CA State	91745 Zip	
Heather MacLeod Environmen Contact Name Title	tal Specialist	Heather MacLeo Contact Name	bd	Environ Title	mental Spe	cialist
(626) 968-0360 Phone # Ext. (626) 968-03 Fax #	379	(626) 968-0360 Phone #	Ext	(626) 90 Fax #	68-0379	
E-Mail: Heather.MacLeod@nrg.com			acLeod@nrg.com			
Section D - Application Type			3987 - Mi,			
6. The Facility Is: O Not In RECLAIM or Title V		O In Title V	In RECLAIM &	Title V Program	ns	
7. Reason for Submitting Application (Select only ONE):	C mineourini	O III HILL	i in the optimities	inte i rogia		
	Administrative (     Alteration/Modil     Alteration/Modil     Alteration/Modil     Change of Con     Change of Loca     Change of Loca     Change of Loca     Equipment Ope     A Higher Permit Proc timated End Date of C	Change fication fication without Prior App dition dition without Prior Appro ation ation without Prior Appro arating with an Expired/Ir	ovol * oval * val * nactive Permit * nnual Operating Fees (up t yy): 8c. Estimated	tion or Permit: Existing or Previous Permit/Application If you checked any of the item 7c., you MUST provide an exis Permit or Application Numbe 538804 up to 3 full years) may apply (Rule 301(c)(1)) ad Start Date of Operation (mm/dd/yy		
<ol> <li>Description of Equipment or Reason for Compliance Plan (i Gas turbine 3, Device D13</li> </ol>	ist applicable rule):	applications are	ipment, how many add being submitted with t ired for each equipment	his application	?	4
evel, and of toos of a not for press sesting contery	n? > No O Yes		Violation (NOV) or a N een issued for this equ If Yes, provide N	ipment?	● No	O Yes
Section E - Facility Business Information 13. What type of business is being conducted at this equipmen	t location?	14. What is used by	iness primary NAICS (	Code2		
electric generation	it location i		ndustrial Classification S		221	112
15 Are there other facilities in the SCAOMD	No OYes	16. Are there any sc 1000 feet of the f	hools (K-12) within acility property line?		No	O Yes
	that all information con	tained herein and inform	ation submitted with this	application are	true and correct	ct.
17. Signature of Responsible Official:	18. Title of Responsib Plant Manage		19. I wish to review to (This may cause a application proce	a delay in the	r to issuance.	O No Yes
20. Print Name: Rick McPherson	21. Date: 1/14	/16	22. Do you claim co data? (If Yes, se		( No	O Yes
23. Check List: X Authorized Signature/Date	× Form 400-CEQA		al Form(s) (ie., Form 40	0-E-xx)	X Fees Encl	osed
	JUNT RECEIVED	PAYMENT TRAC		a constant	DATION	
	EQUIPMENT CATEGORY	CODE TEAM ENGINE	ER REASON/ACTION T	AKEN		

South Coast Air Quality Management District Form 400-A Application Form for Permit or Plan Approval List only one piece of equipment or process per form.					Mail To: SCAQMD P.O. Box 4944 Diamond Bar, CA 91765-0944 Tel: (909) 396-3385 www.aqmd.gov			
Section A - Operator Information		-						
1. Facility Name (Business Name of Operator to Appear on the Permit):				2. Valid AQMD Facility ID (Available On				
Walnut Creek Energy, LLC			Permit Or Invoice Issued By AQMD):					
3. Owner's Business Name (If different from Business Name of Op	erator):					146536	_	
Section B - Equipment Location Address			Section C - Permit Mailing Address					
4. Equipment Location Is:     (For equipment operated at various locations, provide address of initial site.)     911 Bixby Dr     Street Address								
City of Industry , CA 9174	5	City of I	ndustry		, CA 91745			
City Zip		City	industry		State Zip			
Heather MacLeod     Environmental Specialist       Contact Name     Title       (626) 968-0360     (626) 968-0379       Phone #     Ext.		Heather MacLeod Contact Name (626) 968-0360 Phone # Ext			Environmental Specialist Títe (626) 968-0379 Fax #			
E-Mail: Heather.MacLeod@nrg.com		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	ather.Ma	cLeod@nrg.com				
Section D - Application Type								
6. The Facility Is: O Not In RECLAIM or Title V	O In RECLAIM	O In	Title V	In RECLAIM &	Title V Pro	orame		
	O IN RECEASIN	0 11	The v	C III RECEAIN G	THUE V FIL	grams		
7. Reason for Submitting Application (Select only ONE): 7a. New Equipment or Process Application:	To Conformant or F	hannan with	an Culatina	Previous Application	n on Domail	N		
Compliance Plan <ul> <li>Change of Compliance Plan</li> <li>Registration/Certification</li> <li>Change of Compliance of Complisionce of Compliance of Compliance of Compliance of Compliance of</li></ul>			ification ification without Prior Approval * ndition ndition without Prior Approval *			Existing or Previous Permit/Application If you checked any of the items in 7c., you MUST provide an existing Permit or Application Number: 538807		
RECLAIM Facility Permit Amendment     8a, Estimated Start Date of Construction (mm/dd/yyyy): 8b. Est	timated End Date of C					of Operation (mm/	111 11 1111	
<ol> <li>Description of Equipment or Reason for Compliance Plan (I Gas turbine 4, Device D19</li> <li>Are you a Small Business as per AQMD's Rule 102 definition</li> </ol>	ist applicable rule):	10. For Ide applic (Form	entical equip ations are be 100-A require	ment, how many add ling submitted with t ed for each equipment	ditional this applica / process)	ition?	4	
(10 employees or less and total gross receipts are \$500,000 or less <u>OR</u> a not-for-profit training center)	No OYes	12. Has Com	ply (NC) bee	iolation (NOV) or a N n issued for this equ If Yes, provide N	ipment?	No	O Yes	
Section E - Facility Business Information	t location?	44 W/h-1	a wave burst	and administration	Code2			
13. What type of business is being conducted at this equipment location? electric generation			14. What is your business primary NAICS Code? (North American Industrial Classification System) 221112					
15. Are there other facilities in the SCAOMD	No OYes	16. Are the	ere any scho	ools (K-12) within cility property line?	1.001	No	O Yes	
and the second se	that all information con			the second s	s applicatio	n are true and corre	ci	
17. Signature of Responsible Official:     18. Title of Responsible Official:       11. Signature of Responsible Official:     18. Title of Responsible Official:       11. Date:     11. Date:		ble Official: 19. I wish to review			v the permit prior to issuance. a delay in the cess.)   No Yes confidentiality of			
Rick McPherson	1/14	416		data? (If Yes, se			O Yes	
23. Check List: X Authorized Signature/Date	Form 400-CEQA	-	pplemental	Form(s) (ie., Form 4	00-E-xx)	X Fees Encl	osed	
	DUNT RECEIVED		MENT TRACK			VALIDATION		
	EQUIPMENT CATEGORY	CODE TEA	MENGINEE	R REASON/ACTION 1	TAKEN			

South Coast Air Quality Management District Form 400-A Application Form for Permit List only one piece of equipment or process per form.		oval		Mail To: SCAQMD P.O. Box 4944 Diamond Bar, CA 91765-0944 Tel: (909) 396-3385			
AQMD				www.aqmd.gov			
Section A - Operator Information	rmil):			2. Valid AQMD Facility ID (Available On			
Facility Name (Business Name of Operator to Appear on the Permit):				Permit Or Invoice Issued By AQMD):			
Walnut Creek Energy, LLC	and the second se			110500			
Owner's Business Name (If different from Business Name of Op	perator);			146536			
ection B - Equipment Location Address	Section C - Permit Mailing Address						
Equipment Location Is:							
et Address		Address		100 100 100 100 100 100 100 100 100 100			
y, CA 9174 zip	5	City of Industry		, CA 91745 State Zip			
	ather MacLeod Environmental Specialist		d	Environmental Specialist			
626) 968-0360 (626) 968-0 pone # Ext. Fax #	379	(626) 968-0360 Phone #	Eul	(626) 968-0379			
none# Ext. Fax# Mail: Heather.MacLeod@nrg.com		E-Mail: Heather.Ma	Ext. acLeod@nrg.con	Fax#			
ection D - Application Type							
The Facility Is: O Not In RECLAIM or Title V	O In RECLAIM	O In Title V	In RECLAIM &	Title V Programs			
Reason for Submitting Application (Select only ONE):	U III RECEAIM	O in fille v	(9 III REGEAINI G	The V Programs			
New Equipment or Process Application:	7c Equipment or P	Process with an Existing	Provious Applicatio	n or Parmit			
		A REAL PROPERTY OF THE REAL PR	greenous Applicatio	n or Fennic,			
New Construction (Permit to Construct)	Administrative Change			Existing or Previous Permit/Application If you checked any of the items in 7c., you MUST provide an existing Permit or Application Number:			
Equipment On-Site But Not Constructed or Operational	Alteration/Modification						
Equipment Operating Without A Permit *	Alteration/Modification without Prior Approval *     Charge of Coordinate						
Compliance Plan Registration/Certification	Change of Condition     Change of Condition						
Streamlined Standard Permit	<ul> <li>Change of Condition without Prior Approval *</li> <li>Change of Location</li> </ul>						
			al *	538808			
. Facility Permits:		Change of Location without Prior Approval *     Equipment Operating with an Expired/Inactive Permit *					
Title V Application or Amendment (Refer to Title V Matrix)				LAND THE STATE OF			
RECLAIM Facility Permit Amendment			and the second s	to 3 full years) may apply (Rule 301(c)(1)(D)(i)).			
. Estimated Start Date of Construction (mm/dd/yyyy): 8b. Et	stimated End Date of C	Construction (mm/dd/yy)	y): 8c. Estimated	Start Date of Operation (mm/dd/yyyy):			
Description of Equipment or Reason for Compliance Plan ( Gas turbine 5, Device D25	10. For Identical equipment, how many additional applications are being submitted with this application? (Form 400-A required for each equipment / process)						
Are you a Small Business as per AQMD's Rule 102 definition?     (10 employees or less and total gross receipts are     \$500,000 or less <u>OR</u> a not-for-profit training center)     • No     Yes		12. Has a Notice of Violation (NOV) or a Notice to Comply (NC) been issued for this equipment? If Yes, provide NOV/NC#:					
ection E - Facility Business Information . What type of business is being conducted at this equipment	nt location?	14. What is used here!	nose primani MAICO	Code2			
electric generation		14. What is your business primary NAICS Code? (North American Industrial Classification System) 221112					
Are there other facilities in the SCAOMD	No OYes	16. Are there any sch 1000 feet of the fa	ools (K-12) within acility property line?	No ○ Yes			
ection F + Authorization/Signature I hereby certify	r that all information con	lained herein and inform	ation submitted with thi	is application are true and correct.			
Signature of Responsible Official: 18. Title of Responsible Official: Plant Manager		(This may cause					
Print Name: 21. Date: 1/14/		22. Do you claim c		adden /			
. Check List: X Authorized Signature/Date	Form 400-CEQA	Supplementa	l Form(s) (ie., Form 4	00-E-xx) X Fees Enclosed			
	OUNT RECEIVED	PAYMENT TRAC	3 A A	VALIDATION			
	EQUIPMENT CATEGORY	CODE TEAM ENGINE	ER REASON/ACTION 1	FAKEN			

South Coast Air Quality Management District Form 400-A Application Form for Permit or Plan Approval List only one piece of equipment or process per form.					Mail To: SCAQMD P.O. Box 4944 Diamond Bar, CA 91765-0944 Tel: (909) 396-3385 www.aqmd.gov		
Section A - Operator Information							
1. Facility Name (Business Name of Operator to Appear on the Perr	mit):				MD Facility ID (A		
Walnut Creek Energy, LLC				Permit Or Invoice Issued By AQMD):			
3. Owner's Business Name (If different from Business Name of Op	erator):			-	146536	_	
Section B - Equipment Location Address	Section C - Permit						
4. Equipment Location Is:      (For equipment operated at various locations, provide address) 911 Bixby Dr Street Address							
City of Industry , CA 9174	5	City of Industry		, CA 91745			
City Zip	tal Specialist	City Heather MacLeo Contact Name (626) 968-0360	d	State Zip Environmental Specialist Title (626) 968-0379			
Phone # Ext. Fax #		Phone #	Ext.	Fax #	SEC DIAT		
E-Mail: Heather.MacLeod@nrg.com		E-Mail: Heather.Ma	acLeod@nrg.com				
Section D - Application Type							
6. The Facility Is: O Not In RECLAIM or Title V	O In RECLAIM	O In Title V	In RECLAIM & 1	Title V Prog	rams		
7. Reason for Submitting Application (Select only ONE):							
7a. New Equipment or Process Application:	7c. Equipment or F	Process with an Existing	g/Previous Application	or Permit:			
<ul> <li>Equipment On-Site But Not Constructed or Operational</li> <li>Equipment Operating Without A Permit *</li> <li>Compliance Plan</li> <li>Registration/Certification</li> <li>Streamlined Standard Permit</li> <li>7b. Facility Permits;</li> </ul>	<ul> <li>Change of Con</li> <li>Change of Con</li> <li>Change of Loca</li> <li>Change of Loca</li> </ul>	fication without Prior App dition dition without Prior Appro	wal *	Existing or Previous Permit/Application If you checked any of the items in 7c., you MUST provide an existing Permit or Application Number: 450908			
<ul> <li>Title V Application or Amendment (Refer to Title V Matrix)</li> </ul>							
O RECLAIM Facility Permit Amendment		essing Fee and additional Ar					
8a. Estimated Start Date of Construction (mm/dd/yyyy): 8b. Es	timated End Date of C	Construction (mm/dd/yy)	y): 8c. Estimated S	tart Date of	Operation (mm/c	ld/yyyy):	
9. Description of Equipment or Reason for Compliance Plan (li Emergency fire pump engine, Device 34	st applicable rute):	applications are t	pment, how many addi being submitted with th red for each equipment /	is applicati	on?		
eservices of foce off a flat for presidenting solution,	No O Yes		Violation (NOV) or a No en issued for this equi If Yes, provide NC	pment?	• No	O Yes	
Section E - Facility Business Information 13. What type of business is being conducted at this equipment	t location?	14. What is your busi	ness primary NAICS C	ode?			
electric generation		14. What is your business primary NAICS Code? (North American Industrial Classification System)         2			221	112	
15. Are there other facilities in the SCAQMD jurisdiction operated by the same operator?	No O Yes	16. Are there any sch 1000 feet of the fa	ools (K-12) within cility property line?		• No	O Yes	
Section F - Authorization/Signature       I hereby certify that all information con         17. Signature of Responsible Official:       18. Title of Responsible         19. Junit Manage       Plant Manage         20. Print Name:       21. Date:		(This may cause		v the permit prior to issuance. O No e a delay in the O Yes			
Rick McPherson	1/14	116	data? (If Yes, see	a instructions	s.) 💿 No	O Yes	
23. Check List: X Authorized Signature/Date	Form 400-CEQA	Supplementa	Form(s) (ie., Form 40	D-E-xx)	Fees Encl	osed	
AQMD APPLICATION TRACKING # CHECK # AMO	UNT RECEIVED	PAYMENT TRAC	KING #	V	ALIDATION		
DATE APP DATE APP CLASS BASIC E REJ REJ I III CONTROL	EQUIPMENT CATEGORY	CODE TEAM ENGINE	ER REASON/ACTION TA	KEN			



#### South Coast Air Quality Management District Form 400-CEQA

California Environmental Quality Act (CEQA) Applicability Diamond Bar,

SCAQMD P.O. Box 4944 Diamond Bar, CA 91765-0944

Tel: (909) 396-3385 www.aqmd.gov

Mail To:

The SCAQMD is required by state law, the California Environmental Quality Act (CEQA), to review discretionary permit project applications for potential air quality and other environmental impacts. This form is a screening tool to assist the SCAQMD in clarifying whether or not the project<sup>1</sup> has the potential to generate significant adverse environmental impacts that might require preparation of a CEQA document [CEQA Guidelines §15060(a)].<sup>2</sup> Refer to the attached instructions for guidance in completing this form.<sup>3</sup> For each Form 400-A application, also complete and submit one Form 400-CEQA. If submitting multiple Form 400-A applications for the same project at the same time, only one 400-CEQA form is necessary for the entire project. If you need assistance completing this form, contact Permit Services at (909) 396-3385 or (909) 396-2668.

Walnut Creek Energy, LLC

1. Facility Name (Business Name of Operator To Appear On The Permit):

2. Valid AQMD Facility ID (Available On Permit Or Invoice Issued By AQMD): 146536

3. Project Description:

Title V minor changes of conditions with no engineering evaluation

#### Section B - Review For Exemption From Further CEQA Action

Check "Yes" or "No" as applicable

			art all house
	Yes	No	Is this application for:
1.	۲	0	A CEQA and/or NEPA document previously or currently prepared that specifically evaluates this project? If yes, attach a copy of the signed Notice of Determination to this form.
2.	0	۲	A request for a change of permittee only (without equipment modifications)?
3.	0	۲	A functionally identical permit unit replacement with no increase in rating or emissions?
4.	0	۲	A change of daily VOC permit limit to a monthly VOC permit limit?
5.	0	۲	Equipment damaged as a result of a disaster during state of emergency?
6.	0	۲	A Title V (i.e., Regulation XXX) permit renewal (without equipment modifications)?
7.	0	۲	A Title V administrative permit revision?
8.	0	0	The conversion of an existing permit into an initial Title V permit?

If "Yes" is checked for any question in Section B, your application does not require additional evaluation for CEQA applicability. Skip to Section D - Signatures on page 2 and sign and date this form.

Section C - Review of Impacts Which May Trigger CEQA

Complete Parts I-VI by checking "Yes" or "No" as applicable. To avoid delays in processing your application(s), explain all "Yes" responses on a separate sheet and attach it to this form.

	Yes	No	Part I - General
1.	0	0	Has this project generated any known public controversy regarding potential adverse impacts that may be generated by the project? Controversy may be construed as concerns raised by local groups at public meetings; adverse media attention such as negative articles in newspapers or other periodical publications, local news programs, environmental justice issues, etc.
2.	0	0	Is this project part of a larger project? If yes, attach a separate sheet to briefly describe the larger project.
			Part II - Air Quality
3.	0	0	Will there be any demolition, excavating, and/or grading construction activities that encompass an area exceeding 20,000 square feet?
4.	0	0	Does this project include the open outdoor storage of dry bulk solid materials that could generate dust? If Yes, include a plot plan with the application package.

<sup>&</sup>lt;sup>1</sup>A "project" means the whole of an action which has a potential for resulting in physical change to the environment, including construction activities, clearing or grading of land, improvements to existing structures, and activities or equipment involving the issuance of a permit. For example, a project might include installation of a new, or modification of an existing internal combustion engine, dry-cleaning facility, boiler, gas turbine, spray coating booth, solvent cleaning tank, etc.

<sup>&</sup>lt;sup>2</sup> To download the CEQA guidelines, visit http://ceres.ca.gov/env\_law/state.html.

<sup>&</sup>lt;sup>3</sup>To download this form and the instructions, visit http://www.aqmd.gov/ceqa or http://www.aqmd.gov/permit

South Coast Air Quality Management District, Form 400-CEOA (2014.07)

Section	on C .	Review	v of Impacts Which May Trigger CEQA (cont.)						
	Yes	No	Part II - Air Quality (cont.)						
5.	0	0	Would this project result in noticeable off-site odors from activities that may not be subject to SCAQMD permit requirements? For example, compost materials or other types of greenwaste (i.e., lawn clippings, tree trimmings, etc.) have the potential to generate odor complaints subject to Rule 402 – Nuisance.						
6.	0	0	Does this project cause an increase of emissions from	marine vessels, trains and/or airplanes?					
7.	0	0		azardous materials stored aboveground onsite or transported by mobile he amounts associated with each compound on the attached Table 1? <sup>4</sup>					
			Part III – Water Resources	MAN AND AND AND AND AND AND AND AND AND A					
8.	8. Will the project increase demand for water at the facility by more than 5,000,000 gallons per day? The following examples identify some, but not all, types of projects that may result in a "yes" answer to this question: 1) projects that generate steam; 2) projects that use water as part of the air pollution control equipment; 3) projects that require water as part of the production process; 4) projects that require new or expansion of existing sewage treatment facilities; 5) projects where water deman exceeds the capacity of the local water purveyor to supply sufficient water for the project; and 6) projects that require new or expansion existing water supply facilities.								
9.	0	0	Examples of such projects are when water demands exceed	Will the project require construction of new water conveyance infrastructure? Examples of such projects are when water demands exceed the capacity of the local water purveyor to supply sufficient water for the project, or require new or modified sewage treatment facilities such that the project requires new water lines, sewage lines, sewage hook- ups, etc.					
			Part IV – Transportation/Circulation						
10.			Will the project result in (Check all that apply):						
	0	0	a. the need for more than 350 new employees?						
	0	0	b. an increase in heavy-duty transport truck traffic to a	and/or from the facility by more than 350 truck round-trips per day?					
	0	0	c. increase customer traffic by more than 700 visits pe	00 visits per day?					
			Part V - Noise	and all the same the same should be					
11.	0	0	Will the project include equipment that will generate no	bise GREATER THAN 90 decibels (dB) at the property line?					
			Part VI – Public Services						
12.	1-11		Will the project create a permanent need for new or ad	ditional public services in any of the following areas (Check all that apply):					
	0	0	a. Solid waste disposal? Check "No" if the projected pot	ential amount of wastes generated by the project is less than five tons per day.					
	0	0	b. Hazardous waste disposal? Check "No" if the project cubic yards per day (or equivalent in pounds).	ed potential amount of hazardous wastes generated by the project is less than 42					
**REM	NDER:	For eacl	"Yes" response in Section C, attach all pertinent information includi	ing but not limited to estimated quantities, volumes, weights, etc.**					
Sectio	nD -	Signat	ures						
CORR	ECT TO	O THE		ND INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND S FORM IS A SCREENING TOOL AND THAT THE SCAQMD RESERVES THE CEQA APPLICABILITY.					
1. Sign	ature ø	Respo	nsible Official of Firm:	2. Title of Responsible Official of Firm:					
	1	in	Mythur	Plant Manager					
3. Prin	t Name o	of Resp	onsible Official of Firm:	4. Date Signed:					
	ck Mc			1/14/16					
5. Pho	ne # of F	Respons	sible Official of Firm: 6. Fax # of Responsible Official of Firm:	7. Email of Responsible Official of Firm:					
(62	26) 96	8-036	626) 968-0379	Rick.McPherson@nrg.com					
8. Sign	ature of	Prepar	er. (If prepared by person other than responsible official of firm):	9. Title of Preparer:					
	de	oth	er Macturd.	Environmental Specialist					
10. Pri	nt/Name	of Prep	parer:	11. Date Signed:					
He	ather	Macl	_eod	1/14/10					
	one # of			14. Email of Preparer:					
(6)	26) 96	8-030	60 (626) 968-0379	Heather.MacLeod@nrg.com					
102	.07 00	0.000	(020) 000-0010						

THIS CONCLUDES FORM 400-CEQA. INCLUDE THIS FORM AND ANY ATTACHMENTS WITH FORM 400-A.

<sup>4</sup> Table 1 – Regulated Substances List and Threshold Quantities for Accidental Release Prevention can be found in the Instructions for Form 400-CEQA.

#### ATTACHMENT

California Energy Commission (CEC) Adoption Order for Walnut Creek Energy Park (05-AFC-2)

# WALNUT CREEK ENERGY PARK

Application For Certification (05-AFC-2) Los Angeles County

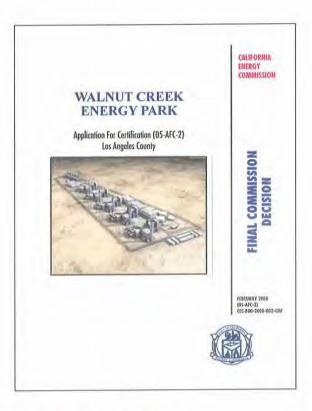


CALIFORNIA ENERGY COMMISSION

FINAL COMMISSION DECISION

FEBRUARY 2008 (05-AFC-2) CEC-800-2008-002-CMF





### CALIFORNIA ENERGY COMMISSION

1516 9th Street Sacramento, CA 95814 www.energy.ca.gov/sitingcases/walnutcreek/index.html



JACKALYNE PFANNENSTIEL Chair, Presiding Member

COMMISSIONERS-JAMES D. BOYD Vice Chair

ARTHUR H. ROSENFELD, Ph. D. Commissioner

JEFFREY D. BYRON Commissioner

KAREN DOUGLAS Commissioner

GARRET SHEAN Hearing Officer

RAOUL RENAUD Hearing Officer

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# EXECUTIVE SUMMARY:



The Energy Commission approves the proposed 500 megawatt Walnut Creek Energy Park in the City of Industry, California, together with the following highlighted measures to mitigate potential environmental and community impacts and comply with applicable laws, ordinances, regulations and standards (LORS):

ENERGY RESOURCES:	<ul> <li>The proposed project will use state-of-the-art GE LMS100 technology resulting in optimized resource efficiency.</li> </ul>
AIR QUALITY	✓ The power plant will use state-of-the-art Best Available Control Technology to minimize emissions.
	<ul> <li>Offsets and RECLAIM credits will be used to compensate for any pollutant for which the South Coast Air Quality Management District determines that it is in non-attainment.</li> </ul>
VISUAL	✓ There is no significant visual impact for hillside residents of Puente Hills and Hacienda Heights, since they generally look from a distance across the valley over the project.
NOISE	✓ In the event of a noise complaint due to rare overnight operation, the Applicant will limit overnight operation to render the project barely audible at 49 dBA.
PROJECT BENEFITS	<ul> <li>Average of 220 direct project-related construction jobs.</li> <li>Total capital costs of \$220-280 million.</li> <li>Construction payroll of \$28.6 million.</li> <li>Operation payroll is \$630,000.</li> <li>Property taxes of \$3.9 to \$4.5 million.</li> <li>Total sales and use tax during construction of \$14.8 million.</li> <li>Local sales tax of \$247,500 annually</li> <li>\$6 to 9 million spent locally for construction materials.</li> <li>\$3 million annual operation budget.</li> </ul>



CALIFORNIA ENERGY COMMISSION

# ADOPTION ORDER

1516 Ninth Street Sacramento, CA 95814 800-822-6228 www.energy.ca.gov WALNUT CREEK ENERGY PARK APPLICATION FOR CERTIFICATION DOCKET NO. 05-AFC-2

This Order adopts the Commission Decision on the Walnut Creek, LLC., Walnut Creek Energy Park. It incorporates the Presiding Member's Proposed Decision. The Commission Decision is based upon the evidentiary record of this proceeding and considers comments received at the Commission Business Meeting. The text of the attached Commission Decision contains a summary of the evidence and the rationale for the Findings and Conditions

This Order adopts by reference the text, Conditions of Certification, and Compliance Verifications contained in the Commission Decision. It also adopts specific requirements contained in the Commission Decision which ensure the proposed facility will be designed, constructed, and operated in a manner to protect environmental quality, to assure public health and safety, and to operate in a safe and reliable manner.

#### Findings

The Commission hereby adopts the following findings in addition to those contained in the accompanying text:

- 1. The project will provide a degree of economic benefits and electricity reliability to the local area.
- 2. The Conditions of Certification contained in this Decision, if implemented by the project owner, ensure that the whole of the project will be designed, constructed, and operated in conformity with applicable local, regional, state, and federal laws, ordinances, regulations, and standards, including applicable public health and safety standards, and air and water quality standards.
- 3. Implementation of the Conditions of Certification contained in the accompanying text will ensure protection of environmental quality and assure reasonably safe and reliable operation of the facility. The Conditions of Certification also assure that the project will neither result in, nor contribute substantially to, any significant direct, indirect, or cumulative adverse environmental impacts.
- 4. Existing governmental land use restrictions are sufficient to adequately control population density in the area surrounding the facility and may be reasonably expected to ensure public health and safety.

- 5. Construction and operation of the project, as mitigated, will not create any adverse environmental impacts. Therefore, the evidence of record also establishes that no feasible alternatives to the project, as described during this proceeding, exist which would reduce or eliminate any significant environmental impacts of the mitigated project.
- 6. The evidence of record does not establish the existence of any environmentally superior alternative site.
- 7. The evidence of record establishes that an environmental justice screening analysis was conducted and that the project, as mitigated, will not have a disproportionate impact on low-income or minority populations.
- 8. The Decision contains a discussion of the public benefits of the project as required by Public Resources Code section 25523(h).
- 9. This Decision contains measures to ensure that the planned, temporary, or unexpected closure of the project will occur in conformance with applicable laws, ordinances, regulations, and standards.
- 10. The proceedings leading to this Decision have been conducted in conformity with the applicable provisions of Commission regulations governing the consideration of an Application for Certification and thereby meet the requirements of Public Resources Code, sections 21000 et seq., and 25500 et seq.

Therefore, the Commission **ORDERS** the following:

- 1. The Application for Certification of the Walnut Creek Energy Park in the City of Industry, California, as described in this Decision, is hereby approved, and a certificate to construct and operate the project is hereby granted.
- 2. The approval of the Application for Certification is subject to the timely performance of the Conditions of Certification and Compliance Verifications enumerated in the accompanying text. The Conditions and Compliance Verifications are integrated with this Decision and are not severable therefrom. While the project owner may delegate the performance of a Condition or Verification, the duty to ensure adequate performance of a Condition or Verification may not be delegated.
- 3. The decision is adopted, issued, effective and final on October 10, 2007.
- 4. Reconsideration of this Decision is governed by Public Resources Code, section 25530.
- 5. Judicial review of this Decision is governed by Public Resources Code, section 25531.
- 6. The Commission hereby adopts the Conditions of Certification, Compliance Verifications, and associated dispute resolution procedures as part of this Decision in

order to implement the compliance monitoring program required by Public Resources Code section 25532. All Conditions in this Decision take effect immediately upon adoption and apply to all construction and site preparation activities including, but not limited to, ground disturbance, site preparation, and permanent structure construction.

7. The Executive Director of the Commission or delegatee shall transmit a copy of this Decision and appropriate accompanying documents as provided by Public Resources Code section 25537 and California Code of Regulations, title 20, section 1768.

Dated: February 27, 2008, at Sacramento, California.

JACKALYNE PFANNENST Chairman

- Absent -

JAMES D. BOYD Vice Chair

art Rosenfeld

ARTHUR H. ROSENFELD Commissioner

JEFFREY D. BYRON Commissioner

KAREN DOUGLAS Commissioner

South Coast Air Quality Management District Form 500-A2 Title V Application Certification	Mail To: SCAQMD P.O. Box 4944 Diamond Bar, CA 91765-0944 Tel: (909) 396-3385 www.agmd.gov
Section I - Operator Information	
1. Facility Name (Business Name of Operator That Appears On Permit): Walnut Creek Energy, LLC	2. Valid AQMD Facility ID (Available On Permit Or Invoice Issued By AQMD): 146536
<ul> <li>3. This Certification is a. Title V Application (Initial submitted with a (Check one): b. Supplement/Correction to c. MACT Part 1</li> <li>4. Is Form 500-C2 included with this Certification? O Yes O</li> </ul>	o a Title V Application
Section II - Responsible Official Certification Statement	
Read each statement carefully and check each that applies - You r	must check 3a or 3b.
1. For Initial, Permit Renewal, and Administrative Application (	Certifications:
<ul> <li>compliance with all applicable requirement(s) identified</li> <li>i. <u>except</u> for those requirements that do not spec "Remove" on Section III of Form 500-C1.</li> <li>ii. <u>except</u> for those devices or equipment that hav operating in compliance with the specified applie</li> <li>b. O The facility, including equipment that are exempt fro requirements with future effective dates.</li> <li>2. For Permit Revision Application Certifications:</li> <li>a. I The equipment or devices to which this permit revisi identified in Section II and Section III of Form 500-C1.</li> <li>3. For MACT Hammer Certifications:</li> <li>a. O The facility is subject to Section 112(j) of the Clean Air following information is submitted with a Title V applicat</li> <li>b. The facility is not subject to Section 112(j) of the Clean Air</li> </ul>	cifically pertain to such devices or equipment and that have been identified as ve been identified on the completed and attached Form 500-C2 that will <u>not</u> be cable requirement(s). m written permit per Rule 219, will meet in a timely manner, all applicable ion applies, will in a timely manner comply with all applicable requirements Act (Subpart B of 40 CFR part 63), also known as the MACT "hammer." The ion to comply with the Part 1 requirements of Section 112(j).
Section III - Authorization/Signature	s defined in AQMD Regulation XXX and that based on information and belief formed after
reasonable inquiry, the statement and information in this document and in all a	attached application forms and other materials are true, accurate, and complete.
1. Signature of Responsible Official:	2. Title of Responsible Official: Plant Manager
3. Print Name:	4. Date:
Rick McPherson	1/14/16
5. Phone #:	6. Fax #:
(626) 968-0360	(626) 968-0379
7. Address of Responsible Official:	
911 Bixby Dr Street #	- <u>City of Industry</u> <u>CA</u> <u>91745-1702</u> <u>Zip</u>

Acid Rain Facilities Only: Please Complete Section IV

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Acid Rain facilities must certify their compliance status of the devices subject to applicable requirements under Title IV by an individual who meets the definition of Designated (or Alternate) Representative in 40 CFR Part 72.

Section IV - Designated Representative Certification Statement

For Acid Rain Facilities Only: I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

1. Signature of Designated Representative or Alternate:	2. Title of Designated Representat Plant Manager	2. Title of Designated Representative or Alternate: Plant Manager				
3. Print Name of Designated Representative or Alternate: Rick McPherson	4. Date:					
5. Phone #: (626) 968-0360	6. Fax #:	6. Fax #: (626) 968-0379				
7. Address of Designated Representative or Alternate: 911 Bixby Dr	City of Industry	CA	91745-1702			
Street #	City	State Z	p			

CL) Form t	t Air Quality Management District 500-F1 (Title V) V - Acid Rain Phas	e il Facility li	nfor	mation :	Summary	,		Mail To SCAQMI P.O. Box 494 Diamond Bar, CA 91765-094 Tel: (909) 396-338
This form shall be comp Acid Rain facilities. Als	oleted by Acid Rain facilities O o attach a completed Form 50 m 500-A1 and any supplement	D-A2. In addition, if an	initia	Title V perm	it, permit renew	wal, or permit revis		www.aqmd.go
Section I - Gener	al Information							
1. Facility Name (Bu	siness Name of Operator That	Appears On Permit):				AQMD Facility I By AQMD):	D (Availa	able On Permit Or Invoice
Walnut Creek I	Energy, LLC				-			146536
					3. ORIS	Code (5-Digit):	57515	
4. This is an applica	ation for a (Check all that a	oply to the facility):						
a. 🗆 F	Phase II Acid Rain Permit or Complete Section II of this f	Revision	b.		wering Exten plete Form 5	sion Plan or Revi 00-F2)	ision	
	lew Unit Exemption or Revi Complete Form 500-F3)	sion	d.		d Unit Exem plete Form 5	ption or Revision 00-F4)		
5. The requested pe	ermit action involves a(n)	(Check one):						
a. O A	Administrative Permit Revisi	on	b.	O Signif	icant Permit	Revision		
c. O F	ast Track Permit Revision		d.	O Auton	natic Permit F	Revision		
	Other (specify): Minor Title	e V Change						
	ns requesting a permit rev		nora	I descriptio	n of the pro	posed changes		
	sheets as necessary):	nsion, provide a ge	enera	ruescriptic	in or the pro	posed changes		
- Clarification t	ne calibration requirem hat the inlet temperatu addition of applicable c	re requirements	for th	ne SCR de	o not apply	during startu	p and s	
Section II - Phase	e II Acid Rain Device Su	immary			and the			
1. The following inf	ormation is (Check one):	a. O New		b. O Revi	sed		_	
AQMD Device #	EPA Unit #	Will device nee Repowering Extension Plar		operatio	ce started ons on or 1/15/90?	Device Opera Start Dat (mo/day/y	e	For devices starting up after 11/15/90, provide date when Monitoring Certification will begin (mo/day/yr)
		O Yes O	No	O Yes	O No			
		O Yes O	No	O Yes	O No	-		
		O Yes O	No	O Yes	O No			
		O Yes O	No	O Yes	O No			
		O Yes O	No	O Yes	O No			

© South Coast Air Quality Management District, Form 500-F1 (2014.07)

#### To complete this application, type or print the information in the appropriate blanks.

#### Section I - General Information

1. Facility Name: Provide the name of the legal entity that operates the facility.

AQMD Facility ID: Complete only if the facility has been issued a 6-digit identification or ID number by AQMD. If not, leave these boxes blank. An ID number will be assigned when the application is submitted.

ORIS Code: Provide the 5-digit code that has been assigned to facility by Department of Energy.

- Check all applicable boxes to indicate the type of Acid Rain application filed. If box 1a. is checked, complete Section II of this form. If box 1b. is checked, complete and attach Form 500-F2 Title IV Phase II Acid Rain Repowering Extension Plan. If box 1c. is checked, complete and attach Form 500-F3 Title IV Phase II Acid Rain New Unit Exemption Request. If box 1d. is checked, complete and attach Form 500-F4 Title IV Phase II Acid Rain Repower.
- Check one box that best represents the type of permit action requested. If box 1e. is checked, in the space provided identify any
  additional elements regarding the application or the facility that need to be considered during the processing of this application (i.e., Initial
  Title V Permit Application).
- 4. If the application is a revision request, describe in general terms the changes that are proposed in the application revision request. Attach additional sheets as necessary.

AQMD Device #:	Provide the identification number for each AQMD-assigned device subject to Phase II requirements.
EPA Unit #:	Provide the identification number for each EPA-assigned device subject to Phase II requirements.
Will device need a Repowering Extension Plan?:	Indicate with a "yes" or "no" if the device is or will be participating under a Repowering Extension Plan.
Has device started operations on or after 11/15/90?:	Indicate with a "yes" or "no" if the device was source tested or started operating on or after November 15, 1990.
Device Operations Start Date:	Complete this column <u>only</u> if the device was source tested or started operating on or after November 15, 1990. Provide the date (mo/day/yr) when the device started or will start operating. Note: If the date of beginning operations changes, an administrative permit revis application will be required.
For Devices starting-up after 11/15/90, provide date when Monitoring Certification will begin:	Complete this column only if the device was source tested or started operating on or after November 15, 1990. Provide the date (mo/day/yr) when compliance with the monitoring procedures for the device will begin. Refer to 40 CFR Part 75.4 to determine this date. No If the monitoring certification date changes, an administrative permit revision application with the monitoring certification date changes.
Certification will begin:	required.

#### Section II - Phase II Acid Rain Device Summary

Attachment 2 Minor Title V Permit Change Request (June 28, 2016)

Walnut Creek Energy, LLC 911 Bixby Drive City of Industry, CA 91745-1702



June 28, 2016

Brian L. Yeh Sr. Air Quality Engineering Manager South Coast Air Quality Management District 21865 E. Copley Drive Diamond Bar, CA 91765-4182

#### Subject: <u>Walnut Creek Energy Park - Facility ID 146536</u> <u>RECLAIM/Title V Facility Permit</u>

Dear Mr. Yeh:

On January 19, 2016, Walnut Creek Energy, LLC (WCE) submitted a permit application package to the SCAQMD requesting several changes to conditions in the RECLAIM/Title V permit for the Walnut Creek Energy Park (WCEP). In addition to these changes, we are requesting a change to the ammonia emission (i.e., "slip") limit in the WCEP RECLAIM/Title V permit for clarification purposes. In the equipment description/permit limit summary table in Section H of the WCEP RECLAIM/Title V permit, the ammonia slip limit is listed as 5 part per million by volume (ppmv) for Device Numbers C4, C10, C16, C22, and C28. However, in Section H of the RECLAIM/Title V permit Condition A195.4 refers to an ammonia emission limit of 5.0 ppmv (see Attachment 1). We believe that "5.0" is referenced in error in Section H of the WCEP permit. To support this position, we reviewed several recently issued SCAQMD permits. In the AES Huntington Beach permit (Permit to Operate issued June 3, 2016) ammonia emission limit is consistently referred to as 5 ppmv (see Attachment 2). A 5 ppmv ammonia slip limit is also consistently referred to in the SCAQMD permits for El Segundo Power (see Attachment 3) and CPV Sentinel (see Attachment 4) facilities. Furthermore, we believe that these permits represent that the Best Available Control Technology (BACT) limit for ammonia slip has been demonstrated to be 5 ppmv. Therefore, WCE requests SCAMD correct the WCEP ammonia emission limit to 5 ppmv in all areas where referenced (i.e., Section D and Section H), which will align this permit with other more recent permits such as AES Huntington Beach's. Specifically, WCE requests the following change to Permit Condition A195.4 (changes shown in strikethrough/underline format):

A195.4 The 5.0 <u>5</u> PPMV NH3 emission limit(s) is averaged over 60minutes at 15% 02, dry basis. The operator shall calculate and continuously record the NH 3 slip concentration using the following...

If you have any questions or need further information, please don't hesitate to contact Heather Macleod at (626) 968-0360, or George.Piantka@nrg.com at (760) 710-2156.

Sincerely,

Dioge Flimthe

George L. Piantka, PE Sr. Director, Regulatory Environmental Services NRG Energy, West Region

Attachments

cc: Christian Aviles, SCAQMD Camille Remy Obad, CEC Rick McPherson, NRG Energy Heather MacLeod, NRG Energy Apeetha Jain, NRG Energy Tom Andrews, Sierra Research

### ATTACHMENT 1

WALNUT CREEK ENERGY PARK PERMIT



Title Page		
Facility ID	146536	
Revision #:	9	
Date:	January 01, 2016	

### FACILITY PERMIT TO OPERATE

#### WALNUT CREEK ENERGY, LLC 911 BIXBY DR CITY OF INDUSTRY, CA 91745

#### NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Mohsen Nazemi, P.E. Deputy Executive Officer Engineering & Compliance



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А	Facility Information	2	10/31/2014
В	RECLAIM Annual Emission Allocation	7	01/01/2016
С	Facility Plot Plan	TO BE DEVE	ELOPED
D	Facility Description and Equipment Specific Conditions	1	05/04/2012
Е	Administrative Conditions	1	05/04/2012
F	RECLAIM Monitoring and Source Testing Requirements	1	05/04/2012
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	1	05/04/2012
Н	Permit To Construct and Temporary Permit to Operate		09/28/2012
Ι	Compliance Plans & Schedules	1	05/04/2012
J	Air Toxics	1	05/04/2012
K	Title V Administration		05/04/2012
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А	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	1	05/04/2012
В	Rule Emission Limits	1	05/04/2012



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Facility ID:	146536	
Revision #:	2	
Date:	October 31, 2014	

#### SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR:

WALNUT CREEK ENERGY, LLC

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION:

MAILING ADDRESS:

**RESPONSIBLE OFFICIAL:** 

TITLE:

**TELEPHONE NUMBER:** 

**CONTACT PERSON:** 

TITLE:

TELEPHONE NUMBER: INITIAL TITLE V PERMIT ISSUED: TITLE V PERMIT EXPIRATION DATE: 911 BIXBY DR CITY OF INDUSTRY, CA 91745-1702

911 BIXBY DR CITY OF INDUSTRY, CA 91745

RICK MCPHERSON

PLANT MANAGER

(626) 968-0360

HEATHER MACLEOD

ENVIRONMENTAL SPECIALIST

(626) 968-0360

May 05, 2011

May 04, 2016

TITLE V	RECLAIM	[
YES	NOx:	YES
	SOx:	YES
	CYCLE:	1
	ZONE:	INLAND



Section	H	Page	1
Facility	ID.	146	536
Revisio	n #:		2
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### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>®</sup> And Requirements	Conditions
Process 1: INTERNAL CON	BUSTI	ON			
System 1: GAS TURBINES.	POWE	R GENERAT	ION		

•	(1) (IA) (IB)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
			(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
++	Refer to sectio	on F and G of this permit to determine the monitoring, record	dkeeping and r	eporting requirements for this device



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#### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL CO	MBUST	ION			
GAS TURBINE, UNIT NO. I,	D	C3	NOX: MAJOR	CO: 4 PPMV NATURAL	A63.1, A99.1,
NATURAL GAS, GENERAL			SOURCE**; SOX:	GAS (4) [RULE 1703(a)(2) -	A99.2, A99.3,
ELECTRIC, MODEL LM\$100PA,	1		PROCESS UNIT**	PSD-BACT, 10-7-1988], CO:	A99.4. A99.5,
SIMPLE CYCLE, INTERCOOLED,	;			2000 PPMV NATURAL GAS	A195.1
891.7 MMBTU/HR AT 30 DEGREES F,				(5) [RULE 407, 4-2-1982];	A195.2,
WITH WATER INJECTION WITH				NOX: 2.5 PPMV NATURAL	A195.3,
A/N: 538796				GAS (4) [RULE 1703(a)(2) -	A327.1, C1.1,
Permit to Construct Issued 09/28/12				PSD-BACT, 10-7-1988; RULE	D12.1. D29.1.
				2005, 5-6-2005]; NOX: 10.73	D29.2, D29.3,
			l I	LBS/MMSCF NATURAL	D82.1, D82.2,
				GAS (1) [RULE 2012,	E193.1, H23.1,
				5-6-2005], NOX: 15 PPMV	1298.1, 1298.7,
				NATURAL GAS (8) [40CFR	K40 I, K67 I
				60 Subpart KKKK, 7-6-2006];	
				NOX: 123.46 LBS/MMSCF	
				(1) [RULE 2012, 5-6-2005];	
	ł			PM10: 0 01 GRAINS/SCF	
				NATURAL GAS (5) [RULE	
				475. 10-8-1976; RULE 475,	
				8-7-1978]; PM10 0.1	
				GRAINS/SCF NATURAL	
				GAS (5B) [RULE 409,	
				8-7-1981); PM10 11 LBS/HR	
				NATURAL GAS (5A) {RULE	
				475, 10-8-1976; RULE 475,	
				8-7-1978]; SO2: (9) [40CFR	
				72 - Acid Rain Provisions,	1
				11-24-1997]; SOX: 0.06	
				LBS/MMBTU NATURAL	
				GAS (8) [40CFR 60 Subpart	
				KNKK, 7-6-2006], SOX: 0.67 LBS/MMSCF (1) [RULE	
				2011, 5-6-2005]; VOC: 2	
				-	
				PPMV NATURAL GAS (4)	
(1) (1A) (1B) Denotes RECLAIM emiss	ion factor	<u> </u>	(2) (2A) (2B) Denotes RJ	[RULE 1303(a)(1)-BACT,	
(3) Denotes RECLAIM const		1		ACT emission limit	
(5) (5A) (5B) Denotes command and co				r toxic control rule limit	
(7) Denotes NSR applicabilit				CFR limit (e.g. NSPS, NESHAPS	etc.)
(9) See App B for Emission I	+			n J for NESHAP/MACT requirem	
Refer to section F and G of this permit t		he monitoring room			



### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL CO	MBUST	ION			
				<b>5-10-1996;</b> RULE 1303(a)(1) -BACT, 12-6-2002]	
GENERATOR, 100.1 NET MW (104 GROSS MW)					
CO OXIDATION CATALYST, NO.1, BASF CAMET, WITH 420 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 538809 Permit to Construct Issued: 09/28/12	G	DI C4			
SELECTIVE CATALYTIC REDUCTION, NO. 1, HALDOR-TOPSOE DNX-629, 1272 CU.FT.; WIDTH: 19 FT 6 IN: HEIGHT: 33 FT ; LENGTH: 2 FT 6 IN WITH A/N: 538809 Permit to Construct Issued: 09/28/12.	. C4	C3 \$6		NH3: <u>5 PPMV</u> NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
AMMONIA INJECTION, GRID STACK, NO.1, HEIGHT: 90 FT ; DIAMETER: 13 FT 6 IN A/N: 538796 Permit to Construct Issued: 09/28/12	 	 C4			

•	(1)(1A)(1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
••	Refer to section	on F and G of this permit to determine the monitoring, recor	dkeeping and r	eporting requirements for this device.



#### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

Process 1:         INTERNAL COMBUSTION           GAS TURBINE, UNIT NO.2, NATURAL GAS, GENERAL         D7         C9         NOX: MAJOR SOURCE**; SOX: PROCESS UNIT**         CO: 4 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: A99.4, A99.5           SIMPLE CYCLE, INTERCOOLED, 891 7 MMBTU/HR AT 30 DEGREES F, WITH WATER INJECTION WITH AVN: 538801         A195.2, NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - A327 1, C1.1           Permit to Construct Issued         09/28/12           VITH WATER INJECTION WITH AVN: 538801         A195.3, GAS (4) [RULE 1703(a)(2) - A327 1, C1.1           Permit to Construct Issued         09/28/12           VITH WATER INJECTION WITH AVN: 538801         B2.1, D22.1, D29.1           Permit to Construct Issued         09/28/12           VITH WATER INJECTION WITH AVN: 538801         B2.1, D22.1, D29.1           PERMIT TO CONSTRUCT ISSUED         09/28/12	Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
NATURAL GAS, GENERAL       SOURCE**: SOX:       GAS (4) [RULE 1703(a)(2)-       A992, A994, A944, A944, A944, A944, A944, A944,	Process 1: INTERNAL CO	MBUSTI	<b>ON</b>	B		
8-7-1978], SO2: (9) [40CFR         72 - Acid Rain Provisions,         11-24-1997]; SOX: 0.06         LBS/MMBTU NA TURAL         GAS (8) [40CFR 60 Subpart         KKKK, 7-6-2006]; SOX: 0.67         LBS/MMSCF (1) [RULE         2011, 5-6-2005]; VOC: 2         PPMV NATURAL GAS (4)         [RULE 1303(a)(1)-BACT.         (1) (1A) (1B) Denotes RECLAIM emission factor         (2) (2A) (2B) Denotes RECLAIM emission rate	GAS TURBINE, UNIT NO.2, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, INTERCOOLED, 891 7 MMBTU/HR AT 30 DEGREES F, WITH WATER INJECTION WITH A/N: 538801	<u></u>	<u></u>	SOURCE**: SOX:	GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]: CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]: NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, S-6-2005]; NOX: 10.73 LBS/MMSCF NATURAL GAS (1) [RULE 2012, S-6-2005]; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 123.46 LBS/MMSCF (1) [RULE 2012, 5-6-2005]; PM10 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475, 10-8-1976; <i>RULE 475,</i> 8-7-1978]; PM10: 0.1 GRAINS/SCF NATURAL GAS (5B) [RULE 409, 8-7-1981], PM10: 11 LBS/HR NATURAL GAS (5A) [RULE	A195.2,
(5) (5A) (5B) Denotes command and control emission limit(6)Denotes air toxic control rule limit(7)Denotes NSR applicability limit(8) (8A) (8B)Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)	(3) Denotes RECLAIM conce (5) (5A) (5B) Denotes command and con	ntration limi utol emission	•	<ul><li>(4) Denotes B</li><li>(6) Denotes ai</li></ul>	8-7-1978], SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; SOX: 0.67 LBS/MMSCF (1) [RULE 2011, 5-6-2005]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, ECLAIM emission rate ACT emission limit ir toxic control rule limit	



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#### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process I: INTERNAL CO	MBUST	TON			
			//////////////////////////////////////	<b>5-10-1996;</b> RULE 1303(a)(1) -BACT. 12-6-2002]	
GENERATOR, 100.1 NET MW (104 GROSS MW)					
CO OXIDATION CATALYST, NO.2, BASF CAMET, WITH 420 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 538811 Permit to Construct Issued: 09/28/12	C9 	D7 C10			
SELECTIVE CATALYTIC REDUCTION, NO. 2, HALDOR-TOPSOE DNX-629, 1272 CU.FT.; WIDTH: 19 FT 6 IN; HEIGHT: 33 FT ; LENGTH: 2 FT 6 IN WITH A/N: 538811 Permit to Construct Issued: 09/28/12 AMMONIA INJECTION, GRID	C10	C9 512		NH3: <mark>5 PPMV</mark> NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT. 12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
STACK, NO.2, HEIGHT: 90 FT; DIAMETER: 13 FT 6 IN A/N: 538811 Permit to Construct Issued: 09/28/12	S12	C10			

(1)(1A)(1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
\$ Refer to section	on F and G of this permit to determine the monitoring, record	ikeeping and r	eporting requirements for this device.



#### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL CO	MBUSTI	ON	<u></u>		
GAS TURBINE, UNIT NO.3,	D13	CI5	NOX: MAJOR	CO: 4 PPMV NATURAL	A63.1, A99.1,
NATURAL GAS. GENERAL			SOURCE**; SOX:	GAS (4) [RULE 1703(a)(2) -	A99.2, A99.3,
ELECTRIC, MODEL LMS100PA.	ł		PROCESS UNIT**	PSD-BACT, 10-7-1988]; CO:	A99.4, A99.5
SIMPLE CYCLE, INTERCOOLED,				2000 PPMV NATURAL GAS	A195.1
891.7 MMBTU/HR AT 30 DEGREES F,	!			(5) [RULE 409, 8-7-1981];	A195.2
WITH WATER INJECTION WITH				NOX 2.5 PPMV NATURAL	A195.3,
VN: 538804				GAS (4) [RULE 1703(a)(2) -	A327.1, C1.1,
ermit to Construct Issued 09/28/12				PSD-BACT, 10-7-1988; RULE	D12.1, D29.1,
	1			2005, 5-6-2005]; NOX 10 73	D29.2, D29.3,
				LBS/MMSCF NATURAL	D82.1, D82.2
				GAS (1) [RULE 2012,	E193.1, H23.1
				5-6-2005]; NOX: 15 PPMV	1298.3, 1298.9
				NATURAL GAS (8) [40CFR	K40.1, K67.1
				60 Subpart KKKK, 7-6-2006],	
				NOX: 123.46 LBS/MMSCF	
			I	(1) [RULE 2012. 5-6-2005].	
				PMI0: 0.01 GRAINS/SCF	
				NATURAL GAS (5) [RULE	
				475, 10-8-1976; RULE 475,	
				8-7-1978], PM10: 0 1	
		I		GRAINS/SCF NATURAL	1
				GAS (5B) [RULE 409,	
			:	8-7-1981]; PM10: 11 LBS/HR	
				NATURAL GAS (5A) [RULE	
				475, 10-8-1976; RULE 475.	
	l			8-7-1978]; SO2 (9) [40CFR	
			I.	72 - Acid Rain Provisions,	
				11-24-1997]; SOX: 0.06	
				LBS/MMBTU NATURAL	
		I		GAS (8) [40CFR 60 Subpart	
				KKKK, 7-6-2006]; SOX; 0.67	
				LBS/MMSCF (1) [RULE	
				2011, 5-6-2005]; VOC: 2	
			1	PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT.	
(1) (1A) (1B) Denotes RECLAIM emiss	uon factor		(2) (2A) (2B) Denotes R		
(3) Denotes RECLAIM conce				ACT emission limit	
(5) (5A) (5B) Denotes command and co				r toxic control rule limit	
(7) Denotes NSR applicabilit				) CFR limit (e.g. NSPS, NESHAPS	S etc.)
(9) See App B for Emission I				n J for NESHAP/MACT requirem	

Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



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### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: INTERNAL CO	MBUST	ION			
	<u>ympesstem///czamm//</u>			<b>5-10-1996;</b> RULE 1303(a)(1) -BACT, 12-6-2002]	<u></u>
GENERATOR, 100.1 NET MW (104 GROSS MW)					
CO OXIDATION CATALYST, NO.3, BASF CAMET, WITH 420 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 538812	C15	D13 C16			
Permit to Construct Issued: 09/28/12 SELECTIVE CATALYTIC REDUCTION, NO. 3, HALDOR-TOPSOE DNX-629, 1272 CU.FT.; WIDTH: 19 FT 6 IN; HEIGHT: 33 FT ; LENGTH: 2 FT 6 IN WITH A/N: 538812	C16	C15 S18		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
Permit to Construct Issued: 09/28/12 AMMONIA INJECTION, GRID STACK, NO.3, HEIGHT: 90 FT ; DIAMETER: 13 FT 6 IN A/N: 538804 Permit to Construct Issued: 09/28/12	S18	C16			

•	(1)(1A)(1B)	Denotes RECLAIM emission factor	(2)(2A)(2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
	Refer to section	on F and G of this permit to determine the monitoring, recor	dkeeping and r	eporting requirements for this device.



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#### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: INTERNAL CO	MBUSTI	ON			
GAS TURBINE, UNIT NO.4, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, INTERCOOLED, 891.7 MMBTU/HR AT 30 DEGREES F, WITH WATER INJECTION WITH A/N: 538807 Permit to Construct Issued: 09/28/12	D19	C)	NOX: MAJOR SOURCE**; SOX: PROCESS UNIT**	CO: 4 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988, RULE 2005, 5-6-2005]; NOX: 10.73 LBS/MMSCF (1A) [RULE 2012, 5-6-2005]; NOX: 15	A63.1, A99.1, A99.2, A99.3, A99.4, A99.5, A195.1, A195.2, A195.3, A327.1, C1.1, D12.1, D29.1, D29.2, D29.3, D82.1, D82.2, E193.1, H23.1
	ł		· · · · · · · · · · · · · · · · · · ·	PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK. 7-6-2006]; NOX: 123 46 LBS/MMSCF (1) [RULE 2012, 5-6-2005], PM10: 0.01 GRAINS/SCF NATURAL [GAS (5) [RULE 475,	1298.4, 1298.10, K40.1, K67.1
				10-8-1976; <i>RULE</i> 475; 8-7-1978]; <b>PM10</b> : 0.1 GRAINS/SCF NATURAL GAS (5B) [ <b>RULE</b> 409, 8-7-1981]; <b>PM10</b> : 11 LBS/HR NATURAL GAS (5A) [ <b>RULE</b>	
		}		475, 10-8-1976; <i>RULE 475</i> , 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart	
				KKKK, 7-6-2006]; SOX: 0.67 LBS/MMSCF (1) [RULE 2011, 5-6-2005]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,	
<ul> <li>(1) (1A) (1B) Denotes RECLAIM emission</li> <li>(3) Denotes RECLAIM concerns</li> <li>(5) (5A) (5B) Denotes command and co</li> <li>(7) Denotes NSR applicabilities</li> <li>(9) See App B for Emission</li> <li>Refer to section F and G of this permit to</li> </ul>	entration limi ntrol emission y limit Limits	n limit	(6)         Denotes ai           (8) (8A) (8B)         Denotes 40           (10)         See section	ACT emission limit r toxic control rule limit ) CFR limit (e.g. NSPS, NESHAP) n J for NESHAP/MACT requirem	



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#### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/	Emissions <sup>*</sup> And Requirements	Conditions
			Monitoring Unit		
Process 1: INTERNAL CON	BUST	ION			
				5-10-1996; RULE 1303(a)(1)	
				-BACT. 12-6-2002]	
GENERATOR, 190. I NET MW (104		1			
GROSS MW)		<u> </u>			-
CO OXIDATION CATALYST, NO.4.	C21	D19 C22	)	)	
BASF CAMET, WITH 420 CUBIC					
FEET OF TOTAL CATALYST					
VOLUME	Ì				
A/N: 538816					i
Permit to Construct Issued: 09/28/12				<u> </u>	
SELECTIVE CATALYTIC	C22	C21 \$24	ļ	NH3: 5 PPMV NATURAL	A195.4,
REDUCTION, NO. 4,				GAS (4) [RULE 1303(2)(1)	D12.2, D12.3,
HALDOR-TOPSOE DNX-629, 1272			İ	-BACT, 5-10-1996; RULE	D12.4, E179.1,
CU.FT.; WIDTH: 19 FT 6 IN;			-	1303(a)(1)-BACT, 12-6-2002]	E179.2,
HEIGHT: 33 FT ; LENGTH: 2 FT 6 IN					E193.1
WITH					1
A/N: 538816					
Permit to Construct Issued: 09/28/12	l				4
AMMONIA INJECTION, GRID		<u> </u>	1		i
STACK, NO.4, HEIGHT: 90 FT ;	\$24	C22			
DIAMETER: 13 FT 6 IN					
A/N: 538807					
Permit to Construct Issued: 09/28/12					

k -	(1) (1A) (1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
			1	a second a second to a super discussion description

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



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#### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL CO	MBUSTI	ON			
GAS TURBINE, UNIT NO.5, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, INTERCOOLED, 891.7 MMBTU/HR AT 30 DEGREES F, WITH WATER INJECTION WITH A/N: 538808 Permit to Construct Issued: 09/28/12	D25	C27	NOX: MAJOR SOURCE**; SOX: PROCESS UNIT**	CO: 4 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV NATURAL GAS (5) [RULE 409, 8-7-1981]; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 10.73 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 123.46 LBS/MMSCF (1) [RULE 2012, 5-6-2005]; PM10 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM10: 0.1 GRAINS/SCF NATURAL GAS (5B) [RULE 409, 8-7-1981]; PM10: 11 LBS/HR NATURAL GAS (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.06	A63.1, A99.1, A99.2, A99.3, A99.4, A99.5, A195.1, A195.2, A195.3, A327.1, C1.1, D12.1, D29.1, D29.2, D29.3, D82.1, D82.2, E193.1, H23.1 I298.5, I298.11, K40.1, K67.1
				LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; SOX: 0.67 LBS/MMSCF (3) [RULE 2011, 5-6-2005]; VOC: 2	
(1) (1A) (1B) Denotes RECLAIM emiss (3) Denotes RECLAIM conce		 	(2) (2A) (2B) Denotes Ri (4) Denotes B	PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, ECLAIM emission rate	
<ul> <li>(5) Denotes RECLAIM concernance</li> <li>(5) (5A) (5B) Denotes command and concernance</li> <li>(7) Denotes NSR applicability</li> <li>(9) See App B for Emission I</li> <li>Refer to section F and G of this permit to</li> </ul>	ntrol emissio y limit limits	n limit	(6)         Denotes ai           (8) (8A) (8B)         Denotes 40           (10)         See section	ACT emission limit r toxic control rule limit ) CFR limit (e.g. NSPS, NESHAP! n J for NESHAP/MACT requirem	



#### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process E INTERNAL CO	MBUST	ION			
				5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002}	
GENERATOR, 100.1 NET MW (104 GROSS MW)	_				
CO OXIDATION CATALYST, NO.5, BASF CAMET, WITH 420 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 538825 Permit to Construct Issued: 09/28/12	C27	D25 C28			
SELECTIVE CATALYTIC REDUCTION, NO. 5, HALDOR-TOPSOE DNX-629, 1272 CU.FT.; WIDTH: 19 FT 6 IN; HEIGHT: 33 FT.; LENGTH: 2 FT 6 IN WITH A/N: 538825 Permit to Construct Issued: 09/28/12	C28	<sup>1</sup> C27 S30		NH3: <mark>5 PPMV</mark> NATURAL GAS (4) { <b>RULE 1303(a)(1)</b> - <b>BACT. 5-10-1996</b> ; <i>RULE</i> <i>1303(a)(1)-BACT. 12-6-2002</i> ]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
AMMONIA INJECTION, GRED STACK, NO.5, HEIGHT: 90 FT ; DIAMETER: 13 FT 6 IN A/N: 538808 Permit to Construct Issued: 09/28/12	\$30	C28			
	l FIRE PU	MP			

•	(1) (1A) (1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



#### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

	No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions" And Requirements	Conditions
Process 1: INTERNAL CO	MBUST	ION			
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, LEAN BURN, DIESEL FUEL, CLARKE, MODEL JU6H-UFAD58, WITH AFTERCOOLER, TURBOCHARGER, 183 BHP A/N: 450908 Permit to Construct Issued 05/05/11	D34		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 0.9 GRAM/BHP-HR DIESEL (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]: NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 2.8 GRAM/BHP-HR DIESEL (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]; PM10: 0.1 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]; SOX 0.004 GRAM/BHP-HR (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]; SOX: 0.103 LBS/1000 GAL (1) [RULE	C1.3, D12.5, D12.6, E193.1, E193.2, I298 6, K67.2
Process 2: INORGANIC C	HEMICA	L STORAGE	2	2011, 5-6-2005]	
STORAGE TANK, FIXED ROOF, TK-1, AMMONIA, 19 PERCENT AQUEOUS AMMONIA, WITH PRV SETTING AT 25 PSIG, 16000 GALS; DIAMETER: 10 FT; HEIGHT, 24 FT AN <sup>®</sup> 538794	D31			an na mangan kang kang kang kang kang kang kang	C157.1, E144.1, E193.1

* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for the				eporting requirements for this device
		See App B for Emission Limits		See section J for NESHAP/MACT requirements
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	•	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(1)(1A)(1B)	Denotes RECLAIM emission factor	(2)(2A)(2B)	Denotes RECLAIM emission rate



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#### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D1, D7, D13, D19, D25]

A195.1 The 4.0 PPMV CO emission limit(s) is averaged over 60 minutes at 15% O2, dry.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988]

[Devices subject to this condition : D1, D7, D13, D19, D25]

A195.2 The 2.5 PPMV NOX emission limit(s) is averaged over 60 minutes at 15% O2, dry.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]

[Devices subject to this condition : D1, D7, D13, D19, D25]

A195.3 The 2.0 PPMV VOC emission limit(s) is averaged over 60 minutes at 15% O2, dry.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D1, D7, D13, D19, D25]

A195.4 The 5.0 PPMV NH3 emission limit(s) is averaged over 60 minutes at 15% O2, dry basis. The operator shall calculate and continuously record the NH3 slip concentration using the following:.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT 21865 Copley Drive. Diamond Bar, CA 91765

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### FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY, LLC

#### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

NH3 (ppmv) = [a-b\*c/1EE+06]\*1EE+06/b; where

a = NH3 injection rate (lb/hr)/17 lb-lb-mol

b = dry exhaust gas flow rate (scf/hr)/385.3 scf/lb-mol

c = change in measured NOx across the SCR (ppmvd at 15% O2)

The operator shall install and maintain a NOX analyzer to measure the SCR inlet NOx ppmv accurate to plus or minus 5 percent calibrated at least once every twelve months.

The NOx analyzer shall be installed and operated within 90 days of initial start-up.

The operator shall use the above described method or other alternative method apporoved by the Executive Officer.

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information without corroborative data using an approved reference method for the determination of ammonia.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2012, 5-6-2005]

[Devices subject to this condition : C4, C10, C16, C22, C28]

A327.1 For the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

[RULE 475, 10-8-1976; RULE 475, 8-7-1978]

[Devices subject to this condition : D1, D7, D13, D19, D25]

#### C. Throughput or Operating Parameter Limits

### ATTACHMENT 2

AES HUNTINGTON BEACH PERMIT

Title Page Facility ID: 115389 Revision #: DRAFT Date: June 03, 2016

### FACILITY PERMIT TO OPERATE

### AES HUNTINGTON BEACH, LLC 21730 NEWLAND ST HUNTINGTON BEACH, CA 92646

#### NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

> Wayne Nastri Acting Executive Officer

By\_

Mohsen Nazemi, P.E. Deputy Executive Officer Engineering & Compliance

## SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR:	AES HUNTINGTON BEACH, LLC
LEGAL OPERATOR (if different than owner):	
EQUIPMENT LOCATION:	21730 NEWLAND ST HUNTINGTON BEACH, CA 92646
MAILING ADDRESS:	21730 NEWLAND ST HUNTINGTON BEACH, CA 92646
<b>RESPONSIBLE OFFICIAL:</b>	WEIKKO WIRTA
TITLE:	PLANT MANAGER
<b>TELEPHONE NUMBER:</b>	(714) 374-1421
CONTACT PERSON:	WEIKKO WIRTA
TITLE:	PLANT MANAGER
<b>TELEPHONE NUMBER:</b>	(714) 374-1421
TITLE V PERMIT ISSUED:	April 29, 2016
TITLE V PERMIT EXPIRATION DATE:	April 28, 2021

TITLE V	RECLAIM	[
YES	NOx:	YES
	SOx:	YES
	CYCLE:	2
	ZONE:	COASTAL

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 3: Power Generation - Gas Turbines					

\* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate Denotes RECLAIM concentration limit (4) Denotes BACT emission limit (3) (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) Denotes NSR applicability limit (7)(9) See App B for Emission Limits (10)See section J for NESHAP/MACT requirements \*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Condition
Process 3: Power Gene	ration - Gas '	Turbines	8		
GAS TURBINE, UNIT NO. 1,	D115	C120 C121 S123	NOX: MAJOR	CO: 2 PPMV NATURAL	A63.6, A63.7,
COMBINED CYCLE, GE MODEL			SOURCE**; SOX:	GAS (4) [RULE 1703(a)(2) -	A99.4,
7FA.05, NATURAL GAS, 2273			PROCESS UNIT**	PSD-BACT, 10-7-1988]; CO:	A195.7,
MMBTU/HR AT 32 DEGREES F				2000 PPMV NATURAL GAS	A195.8,
WITH DRY LOW NOX				(5) <b>[RULE 407, 4-2-1982]</b> ;	A195.9,
COMBUSTOR, GE DLN 2.6 WITH				CO2: 1000 LBS/GROSS	A327.1,
A/N:				MWH NATURAL GAS (8)	B61.1, C1.7,
				[40CFR 60 Subpart TTTT,	C1.8, C1.9,
				10-23-2015]; NOX: 2 PPMV	D29.5, D29.6
				NATURAL GAS (4) [RULE	D29.7, D82.3
				1703(a)(2) - PSD-BACT,	D82.4, E193.
				10-7-1988; RULE 2005,	E193.4,
				12-4-2015]; NOX: 15 PPMV	E193.5,
				NATURAL GAS (8) [40CFR	E193.6,
				60 Subpart KKKK, 7-6-2006];	E448.1,
				NOX: 19.09 LBS/MMSCF	1297.1, 1298.1
				NATURAL GAS (1) [RULE	K40.3, K67.5
				2012, 12-4-2015]; <b>PM</b> : 0.01	
				GRAINS/SCF (5A) [RULE	
				475, 10-8-1976; RULE 475,	
				8-7-1978]; PM: 0.1	
				GRAINS/SCF (5) [RULE 409,	
				8-7-1981; RULE 475,	
				<b>10-8-1976;</b> <i>RULE 475,</i>	
				<i>8-7-1978</i> ]; <b>PM</b> : 11 LBS/HR (5)	
				[RULE 409, 8-7-1981; RULE	
				475, 10-8-1976; RULE 475,	
				8-7-1978]; SO2: (9) [40CFR	
				72 - Acid Rain Provisions,	
				11-24-1997]; SOX: 0.06	
				LBS/MMBTU (8) [40CFR 60	
				Subpart KKKK, 7-6-2006];	
				SOX: 0.71 LBS/MMSCF	
				NATURAL GAS (1) [RULE	
				2011, 12-4-2015]; <b>VOC</b> : 2	
(1) (1A) (1B) Denotes RECLAIM	emission factor		(2) (2A) (2B) Denotes RI	ECLAIM emission rate	
(3) Denotes RECLAIM	concentration lim	it	(4) Denotes B.	ACT emission limit	
(5) (5A) (5B) Denotes command a	and control emission	on limit	(6) Denotes ai	r toxic control rule limit	
(7) Denotes NSR applie	cability limit		(8) (8A) (8B) Denotes 40	CFR limit (e.g. NSPS, NESHAPS	S, etc.)
(9) See App B for Emis	-			n J for NESHAP/MACT requirem	

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 3: Power Generation	on - Gas '	Turbines			
GENERATOR, 236.1 MW GROSS				PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	
AT 32 DEGREES F					
GENERATOR, HEAT RECOVERY STEAM					
TURBINE, STEAM, COMMON WITH GAS TURBINE NO. 2, 221.4 MW GROSS AT 32 DEGREES F					
CO OXIDATION CATALYST, BASF, SERVING GAS TURBINE NO. 1, WITH 328.8 CU FT OF TOTAL CATALYST VOLUME A/N:	C120	D115			D12.10, E193.4
SELECTIVE CATALYTIC REDUCTION, CORMETECH, TITANIUM/VANADIUM/TUNGSTE N, SERVING UNIT NO 1, 2761 CU FT OF TOTAL CATALYST VOL UME, WIDTH: 1 FT 6 IN; HEIGHT: 71 FT 7.2 IN; LENGTH: 25 FT 8.4 IN WITH A/N:	C121	D115		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.10, D12.7, D12.8, D12.9, E193.4
AMMONIA INJECTION, INJECTION GRID					
STACK, SERVING TURBINE NO. 1, HEIGHT: 150 FT ; DIAMETER: 20 FT A/N:	S123	D115			

\* (1) (1A) (1B) Denotes RECLAIM emission factor

(3) Denotes RECLAIM concentration limit

- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit

(9) See App B for Emission Limits

- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit

(6) Denotes air toxic control rule limit

(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)

(10) See section J for NESHAP/MACT requirements

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Condition
Process 3: Power Genera	tion - Gas '	Turbines	8		
GAS TURBINE, UNIT NO. 2,	D124	C129 C130 S132	NOX: MAJOR	CO: 2 PPMV NATURAL	A63.6, A63.7,
COMBINED CYCLE, GE MODEL			SOURCE**; SOX:	GAS (4) [RULE 1703(a)(2) -	A99.4,
7FA.05, 2273 MMBTU/HR AT 32			PROCESS UNIT**	PSD-BACT, 10-7-1988]; CO:	A195.6,
DEGREES F WITH DRY LOW NOX				2000 PPMV NATURAL GAS	A195.7,
COMBUSTOR, GE DLN 2.6 WITH				(5) [RULE 407, 4-2-1982];	A195.8,
A/N:				CO2: 1000 LBS/GROSS	A195.9,
				MWH NATURAL GAS (8A)	A327.1,
				[40CFR 60 Subpart TTTT,	B61.1, C1.7,
				10-23-2015]; NOX: 2 PPMV	C1.8, C1.9,
				NATURAL GAS (4) [RULE	D29.5, D29.6
				1703(a)(2) - PSD-BACT,	D29.7, D82.3
				10-7-1988; RULE 2005,	D82.4, E193.
				12-4-2015]; NOX: 15 PPMV	E193.4,
				NATURAL GAS (8) [40CFR	E193.5,
				60 Subpart KKKK, 7-6-2006];	E193.6,
				NOX: 19.09 LBS/MMSCF	E448.1,
				NATURAL GAS (1) [RULE	1297.1, 1298.
				2012, 12-4-2015]; <b>PM</b> : 0.01	K40.3, K67.5
				GRAINS/SCF (5) [RULE 409,	
				8-7-1981; RULE 475,	
				<b>10-8-1976;</b> <i>RULE 475,</i>	
				<i>8-7-1978</i> ]; <b>PM</b> : 0.01	
				GRAINS/SCF (5A) [RULE	
				475, 10-8-1976; RULE 475,	
				<i>8-7-1978</i> ]; <b>PM</b> : 11 LBS/HR (5)	
				[RULE 409, 8-7-1981; RULE	
				475, 10-8-1976; RULE 475,	
				8-7-1978]; SO2: (9) [40CFR	
				72 - Acid Rain Provisions,	
				11-24-1997]; SOX: 0.06	
				LBS/MMBTU (8) [40CFR 60	
				Subpart KKKK, 7-6-2006];	
				SOX: 0.71 LBS/MMSCF	
				NATURAL GAS (1) [RULE	
				2011, 12-4-2015]; <b>VOC</b> : 2	
(1) (1A) (1B) Denotes RECLAIM en	nission factor		(2) (2A) (2B) Denotes RI	ECLAIM emission rate	I
(3) Denotes RECLAIM co	oncentration lim	it	(4) Denotes B.	ACT emission limit	
(5) (5A) (5B) Denotes command and	l control emissic	on limit		r toxic control rule limit	
(7) Denotes NSR applicab	oility limit			CFR limit (e.g. NSPS, NESHAPS	S, etc.)
(9) See App B for Emission	-			n J for NESHAP/MACT requirem	

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 3: Power Generation	on - Gas '	Turbines			
GENERATOR, 236.1 MW GROSS				PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	
AT 32 DEGREES F					
GENERATOR, HEAT RECOVERY STEAM					
TURBINE, STEAM, COMMON WITH GAS TURBINE NO. 1, 221.4 MW GROSS AT 32 DEGREES F					
CO OXIDATION CATALYST, BASF, SERVING GAS TURBINE NO. 2, WITH 328.8 CU FEET OF TOTAL CATALYST VOLUME A/N:	C129	D124			D12.10, E193.4
SELECTIVE CATALYTIC REDUCTION, CORMETECH, TITANIUM/VANADIUM/TUNGSTE N, SERVING UNIT NO. 2, 2761 CU FT OF TOTAL CATALYST VOLUME, WIDTH: 1 FT 6 IN; HEIGHT: 71 FT 7.2 IN; LENGTH: 25 FT 8.4 IN WITH A/N:	C130	D124		NH3: 5 PPMV (4) [RULE         1303(a)(1)-BACT, 5-10-1996;         RULE 1303(a)(1)-BACT,         12-6-2002]	A195.10, D12.7, D12.8, D12.9, E193.4
AMMONIA INJECTION, INJECTION GRID					
STACK, SERVING UNIT NO. 2, HEIGHT: 150 FT ; DIAMETER: 20 FT A/N:	8132	D124			

\* (1) (1A) (1B) Denotes RECLAIM emission factor

(3) Denotes RECLAIM concentration limit

(5) (5A) (5B) Denotes command and control emission limit

(7) Denotes NSR applicability limit

(9) See App B for Emission Limits

(2) (2A) (2B) Denotes RECLAIM emission rate

(4) Denotes BACT emission limit

(6) Denotes air toxic control rule limit

(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)

(10) See section J for NESHAP/MACT requirements

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Condition
Process 3: Power Genera	tion - Gas '	Turbines	8		
GAS TURBINE, UNIT NO. 3 SIMPLE	D133	C135 C136 S138	NOX: MAJOR	CO: 4 PPMV NATURAL	A63.8, A63.9,
CYCLE, GE MODEL LMS100PB,			SOURCE**; SOX:	GAS (4) [RULE 1703(a)(2) -	A99.5,
NATURAL GAS, 885 MMTU/HR AT			PROCESS UNIT**	PSD-BACT, 10-7-1988]; CO:	A195.8,
55.8 DEGREES F, INTERCOOLED,				2000 PPMV NATURAL GAS	A195.11,
WITH DRY LOW NOX COMBUSTOR				(5) [RULE 407, 4-2-1982];	A195.12,
WITH				NOX: 2.5 PPMV NATURAL	A327.1,
V/N:				GAS (4) [RULE 1703(a)(2) -	B61.1, C1.10
				PSD-BACT, 10-7-1988;	C1.11, C1.12
				RULE 2005, 12-4-2015];	D29.5, D29.6
				NOX: 15 PPMV NATURAL	D29.7, D82.3
				GAS (8) [40CFR 60 Subpart	D82.4, E193.
				KKKK, 7-6-2006]; NOX:	E193.4,
				25.11 LBS/MMSCF	E193.7,
				NATURAL GAS (1) [RULE	E193.8,
				2012, 12-4-2015]; <b>PM</b> : 0.01	E448.2,
				GRAINS/SCF (5A) [RULE	E448.3,
				475, 10-8-1976; RULE 475,	1297.2, 1298.2
				<i>8-7-1978</i> ]; <b>PM</b> : 0.1	K40.3, K67.5
				GRAINS/SCF (5) [RULE 409,	
				8-7-1981; RULE 475,	
				<b>10-8-1976;</b> <i>RULE 475,</i>	
				8-7-1978]; PM: 11 LBS/HR (5)	
				[RULE 409, 8-7-1981; RULE	
				475, 10-8-1976; RULE 475,	
				8-7-1978]; SO2: (9) [40CFR	
				72 - Acid Rain Provisions,	
				11-24-1997]; SOX: 0.06	
				LBS/MMBTU NATURAL	
				GAS (8) [40CFR 60 Subpart	
				<b>KKKK, 7-6-2006</b> ]; <b>SOX</b> : 0.71	
				LBS/MMSCF NATURAL	
				GAS (1) [RULE 2011,	
				12-4-2015]; VOC: 2 PPMV	
				NATURAL GAS (4) [RULE	
				1303(a)(1)-BACT, 5-10-1996;	
(1) (1A) (1B) Denotes RECLAIM en	nission factor		(2) (2A) (2B) Denotes RI	ECLAIM emission rate	
(3) Denotes RECLAIM co	oncentration lim	it	(4) Denotes B	ACT emission limit	
(5) (5A) (5B) Denotes command and	control emissio	on limit		r toxic control rule limit	
(7) Denotes NSR applicab				CFR limit (e.g. NSPS, NESHAPS	S, etc.)
(9) See App B for Emission	-			n J for NESHAP/MACT requirem	

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 3: Power Generation	on - Gas '	Furbines			
GENERATOR, 100.8 MW GROSS				RULE 1303(a)(1)-BACT, 12-6-2002]	
AT 65.8 DEGREES F CO OXIDATION CATALYST, BASF CAMET, SERVING GAS TURBINE NO. 3, WITH 165.6 CU FT OF TOTAL CATALYST VOLUME A/N:	C135	D133			D12.10, E193.4
SELECTIVE CATALYTIC REDUCTION, CORMETECH CHMT, TITANIUM/VANADIUM/TUNGSTE N, SERVING UNIT NO. 3, WITH 622 CU FT OF TOTAL CATALYST VOLUME, WIDTH: 4 FT 10.8 IN; HEIGHT: 11 FT 7.2 IN; LENGTH: 11 FT WITH A/N:	C136	D133		(NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.10, D12.11, D12.12, D12.13, E193.4
AMMONIA INJECTION, INJECTION GRID STACK, SERVING UNIT NO. 3, HEIGHT: 80 FT ; DIAMETER: 13 FT 6	S138	D133			
IN A/N:					

*	(1) (1A) (1B)	Denotes RECLAIM emission factor	(2)(2A)(2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to section	on F and G of this permit to determine the monitoring, recor	dkeeping and r	eporting requirements for this device.

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Condition
Process 3: Power Generat	ion - Gas '	Turbines			
GAS TURBINE, UNIT NO. 4, SIMPLE	D139	C141 C142 S144	NOX: MAJOR	CO: 4 PPMV NATURAL	A63.8, A63.9,
CYCLE, GE MODEL LMS100PB,			SOURCE**; SOX:	GAS (4) [RULE 1703(a)(2) -	A99.5,
NATURAL GAS, 885 MMBTU/HR			PROCESS UNIT**	PSD-BACT, 10-7-1988]; CO:	A195.8,
AT 65.8 DEG F, INTERCOOLED,				2000 PPMV NATURAL GAS	A195.11,
WITH DRY LOW NOX COMBUSTOR				(5) [RULE 407, 4-2-1982];	A195.12,
WITH				NOX: 2.5 PPMV NATURAL	A327.1,
A/N:				GAS (4) [RULE 1703(a)(2) -	B61.1, C1.10,
				PSD-BACT, 10-7-1988;	C1.11, C1.12,
				RULE 2005, 12-4-2015];	D29.5, D29.6
				NOX: 15 PPMV NATURAL	D29.7, D82.3
				GAS (8) [40CFR 60 Subpart	D82.4, E193.
				KKKK, 7-6-2006]; NOX:	E193.4,
				25.11 LBS/MMSCF	E193.7,
				NATURAL GAS (1) [RULE	E193.8,
				2012, 12-4-2015]; <b>PM</b> : 0.01	E448.2,
				GRAINS/SCF (5A) [RULE	E448.3,
				475, 10-8-1976; RULE 475,	1297.2, 1298.2
				<i>8-7-1978</i> ]; <b>PM</b> : 0.1	K40.3, K67.5
				GRAINS/SCF (5) [RULE 409,	
				8-7-1981; RULE 475,	
				<b>10-8-1976;</b> <i>RULE 475,</i>	
				<i>8-7-1978</i> ]; <b>PM</b> : 11 LBS/HR (5)	
				[RULE 409, 8-7-1981; RULE	
				475, 10-8-1976; RULE 475,	
				8-7-1978]; SO2: (9) [40CFR	
				72 - Acid Rain Provisions,	
				11-24-1997]; SOX: 0.06	
				LBS/MMBTU NATURAL	
				GAS (8) [40CFR 60 Subpart	
				<b>KKKK, 7-6-2006</b> ]; <b>SOX</b> : 0.71	
				LBS/MMSCF NATURAL	
				GAS (1) [RULE 2011,	
				12-4-2015]; VOC: 2 PPMV	
				NATURAL GAS (4) [RULE	
				1303(a)(1)-BACT, 5-10-1996;	
(1) (1A) (1B) Denotes RECLAIM emi	ssion factor	1	(2) (2A) (2B) Denotes RI	ECLAIM emission rate	
(3) Denotes RECLAIM con		it		ACT emission limit	
(5) (5A) (5B) Denotes command and c	ontrol emissic	on limit		r toxic control rule limit	
(7) Denotes NSR applicabil				CFR limit (e.g. NSPS, NESHAPS	S, etc.)
(9) See App B for Emission	-			n J for NESHAP/MACT requirem	

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 3: Power Generation	on - Gas T	Furbines			
				RULE 1303(a)(1)-BACT, 12-6-2002]	
GENERATOR, 100.8 MW GROSS AT 65.8 DEG F					
CO OXIDATION CATALYST, BASF CAMET, SERVING GAS TURBINE NO. 4, WITH 165.6 CU FT OF TOTAL CATALYST VOLUME, HEIGHT: 120 FT ; DIAMETER: 18 FT A/N:	C141	D139			D12.10, E193.4
SELECTIVE CATALYTIC REDUCTION, CORMETECH CMHT, TITANIUM/VANADIUM/TUNGSTE N, SERVING UNIT NO. 4, WITH 622 CU FT OF TOTAL CATALYST VOLUME, WIDTH: 4 FT 10.8 IN; HEIGHT: 11 FT 7.2 IN; LENGTH: 11 FT WITH A/N:	C142	D139		(NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.10, D12.11, D12.12, D12.13, E193.4
AMMONIA INJECTION, INJECTION GRID					
STACK, SERVING UNIT NO. 4, HEIGHT: 80 FT ; DIAMETER: 13 FT 6 IN A/N:	S144	D139			

*	(1) (1A) (1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate	
	<ul> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> </ul>		(4)	Denotes BACT emission limit	
			(6)	Denotes air toxic control rule limit	
			(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)	
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements	
**	Refer to section	on F and G of this permit to determine the monitoring reco	dkeeping and r	eporting requirements for this device	

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 3: Power Generation	on - Gas I	Furbines			
BOILER, AUXILIARY, RENTECH, MODEL D TYPE, WATER TUBE, NATURAL GAS, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 71 MMBTU/HR WITH A/N:	D145	C147 S149		CO: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; <i>RULE</i> <i>1303(a)(1)-BACT, 12-6-2002</i> ]; CO: 400 PPMV NATURAL GAS (5) [RULE 1146, 11-1-2013]; CO: 2000 PPMV NATURAL GAS (5A) [RULE 407, 4-2-1982]; NOX: 5 PPMV NATURAL GAS (4) [RULE 2005, 12-4-2015]; NOX: 49.18 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 12-4-2015]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 0.83 LBS/MMSCF NATURAL GAS (1) [RULE 2011, 12-4-2015]	A63.10, A195.13, A195.14, C1.13, C1.14, D29.8, D29.9, D82.5, E193.4, I297.3, I298.3
BURNER, JZHC/COEN RMB, NATURAL GAS, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 71 MMBTU/HR					

*	(1) (1A) (1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to section	on F and G of this permit to determine the monitoring, record	dkeeping and re	eporting requirements for this device.

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 3: Power Generati	on - Gas '	Turbines			
SELECTIVE CATALYTIC REDUCTION, BABCOCK AND WILCOX, VANADIUM, SERVING THE AUXILIARY BOILER, WITH 46 CU FT OF TOTAL CATALYST VOLUME WITH A/N: AMMONIA INJECTION, INJECTION GRID	C147	D145		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.10, D12.14, D12.15, D12.16, E193.4
STACK, SERVING THE AUXILIARY BOILER, HEIGHT: 80 FT ; DIAMETER: 3 FT A/N:	S149	D145			
STORAGE TANK, HORIZONTAL, AQUEOUS AMMONIA, 19 PERCENT, 35000 GALS; DIAMETER: 13 FT ; LENGTH: 45 FT A/N:	D150				C157.1, E144.1, E193.4
STORAGE TANK, HORIZONTAL, NATURAL GAS, AQUEOUS AMMONIA, 19 PERCENT, 15000 GALS; DIAMETER: 6 FT ; LENGTH: 18 FT A/N:	D151				C157.1, E144.1, E193.4
OIL WATER SEPARATOR A/N:	D152				
OIL WATER SEPARATOR, HEAT RECOVERY STEAM A/N:	D153				

- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits

- $\left(2\right)\left(2A\right)\left(2B\right)$  Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

A195.9 The 1000 LBS/MW-HR CO2 emission limit(s) is averaged over over a rolling 12 operating month basis. The limit shall only apply if the turbine supplies more than 1,519,500 MWh net electrical output to a utility distribution system over a rolling 12 operating month basis and a 3 year rolling average basis.

NH3 (ppmv) = [a-b\*(c\*1.2)/1E+06]\*1E+06/b

- 1. where,
- 2. a = NH3 injection rate (lbs/hr)/17(lb/lb-mol)
- 3. b = dry exhaust gas flow rate (scf/hr)/385.3 scf/lb-mol)
- 4. c = change in measured NOx across the SCR (ppmvd at 15% O2)

The operator shall install and maintain a NOx analyzer to measure the SCR inlet NOx ppmv accurate to plus or minus 5 percent calibrated at least once every twelve months. The NOx analyzer shall be installed and operated within 90 days of initial start-up.

The operator shall use the above described method or another alternative method approved by the Executive Officer..

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information without corroborative data using an approved reference method for the determination of ammonia..

#### [40CFR 60 Subpart TTTT, 10-23-2015]

[Devices subject to this condition : D115, D124]

A195.10 The **5** PPMV NH3 emission limit(s) is averaged over 60 minutes at 15% O2, dry basis. The operator shall calculate and continuously record the NH3 slip concentration using the following:.

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

NH3 (ppmv) =  $[a-b^*(c^{*}1.2)/1E+06]^*1E+06/b$ .

where

- 1. a = NH3 injection rate (lbs/hr)/17(lb/lb-mol)
- 2. b = dry exhaust gas flow rate (scf/hr)/385.3 scf/lb-mol)
- 3. c = change in measured NOx across the SCR (ppmvd at 15% O2)

The operator shall install and maintain a NOx analyzer to measure the SCR inlet NOx ppmv accurate to plus or minus 5 percent calibrated at least once every twelve months. The NOx analyzer shall be installed and operated within 90 days of initial start-up..

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information without corroborative data using an approved reference method for the determination of ammonia..

The operator shall use the above described method or another alternative method approved by the Executive Officer.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C121, C130, C136, C142, C147]

A195.11 The 2.5 PPMV NOX emission limit(s) is averaged over 60 minutes at 15 percent O2, dry. This limit shall not apply during commissioning, turbine start ups and turbine shutdowns..

#### [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 12-4-2015]

[Devices subject to this condition : D133, D139]

A195.12 The 4.0 PPMV CO emission limit(s) is averaged over 60 minutes at 15 percent O2, dry. This limit shall not apply during commissioning, turbine start ups and turbine shutdowns.

## ATTACHMENT 3

### EL SEGUNDO POWER PERMIT



Title Pa	age	
Facility	ID:	115663
Revisio	n #:	39
Date:	Novem	ber 25, 2014

## FACILITY PERMIT TO OPERATE

### EL SEGUNDO POWER, LLC 301 VISTA DEL MAR EL SEGUNDO, CA 90245

### NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env., EXECV VE OFFICER By

Mohsen Nazemi, P.E. Deputy Executive Officer Engineering & Compliance



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Facility	ID:	115	663	
Revisio	n #:		20	
Date:	Nove	ember 25, 2	014	

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

1	Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1:	INTERNAL C	OMBUST	ION	and tildes mit		1
System 2:	system 2: GAS TURBINE POWER GENERATION					

	(1) (1A) (1B	) Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B	) Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
*	Refer to sect	ion F and G of this permit to determine the monitoring, rec	ordkeeping and r	eporting requirements for this device.



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Facility	ID:	115	663	
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Date:	Nov	ember 25, 2	014	

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: INTERNAL C	OMBUST	ION			
GAS TURBINE, UNIT NO.5, NATURAL GAS, SIEMENS, MODEL SGT6-5000F RAPID-RESPONSE, COMBINED CYCLE, 2,096 MMBTU/HR AT 78 DEGREES F, WITH DRY LOW-NOX COMBUSTORS WITH A/N: 470652 GENERATOR, HEAT RECOVERY STEAM, UNFIRED	D67	C75	NOX: MAJOR SOURCE**	CO: 2 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002; RULE 1703(a) (2) - PSD-BACT, 10-7-1988]; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; PM: 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF NATURAL GAS (5A) [RULE 409, 8-7-1981]; PM: 11 LBS/HR NATURAL GAS (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	A63.2, A99.7, A99.8, A99.9, A195.8, A195.9, A195.10, A327.1, A433.1, B61.2, D12.10, D29.8, D29.9, D82.4, D82.5, E193.2, K40.4 K67.5
TURBINE, STEAM, 67.7 MW         * (1) (1A) (1B) Denotes RECLAIM e         (3) Denotes RECLAIM e         (5) (5A) (5B) Denotes command an         (7) Denotes NSR applica         (9) See App B for Emissi         ** Refer to section F and G of this period	oncentration I d control emis bility limit on Limits	imit sion limit	(4) Deno (6) Deno (8) (8A) (8B) Deno (10) See s	tes RECLAIM emission rate otes BACT emission limit otes air toxic control rule limit tes 40 CFR limit (e.g. NSPS, NESHAI section J for NESHAP/MACT requirem	



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### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: INTERNAL CO	MBUST	ION		1	
GENERATOR, 219 MW					
CO OXIDATION CATALYST, UNIT NO. 5, BASF, 290 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 470653	C75	D67 C76			
SELECTIVE CATALYTIC REDUCTION, UNIT NO. 5, CORMETECH, MODEL CM21HT, WITH 2,050 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 25 FT ; HEIGHT: 70 FT ; LENGTH: 24 FT 3 IN WITH A/N: AMMONIA INJECTION, GRID	C76	C75 S78		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	A195.11, D12.11, D12.12, D12.13, E179.5, E179.6, E193.2
STACK, NO. 5, HEIGHT: 210 FT ; DIAMETER: 20 FT 11 IN A/N: 470652	S78	C76			

	(1)(IA)(I	B) Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5	5B) Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to se	ection F and G of this permit to determine the monitoring	recordkeeping and r	enorting requirements for this device



South Coast Air Quality Management District 21865 Copley Drive, Diamond Bar, CA 91765-4178

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## FACILITY PERMIT TO OPERATE EL SEGUNDO POWER, LLC

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

#### The operator shall comply with the terms and conditions set forth below:

OX: MAJOR	1000	1
	N. OF STREAM PROPERTY AND A STREAM STREAM	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
OURCE**	CO: 2 PPMV NATURAL GAS (4) [RULE 1703(a)(2) – PSD-BACT, 10-7-1988]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002; RULE 1703(a) (2) - PSD-BACT, 10-7-1988]; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; PM: 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF NATURAL GAS (5A) [RULE 409, 8-7-1981]; PM: II LBS/HR NATURAL GAS (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	A63.2, A99.7, A99.8, A99.9, A195.8, A195.9, A195.10, A327.1, A433.1, B61.2, D12.10, D29.8, D29.9, D82.4, D82.5, E193.2, K40.4 K67.5
		PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002; RULE 1703(a) (2) - PSD-BACT, 10-7-1988]; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; PM: 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF NATURAL GAS (5A) [RULE 409, 8-7-1981]; PM: 11 LBS/HR NATURAL GAS (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)



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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions				
Process 1: INTERNAL COMBUSTION									
GENERATOR, 219 MW									
CO OXIDATION CATALYST, UNIT NO. 7, BASF, 290 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 470654	C79	D68 C80							
SELECTIVE CATALYTIC REDUCTION, UNIT NO. 7, CORMETECH, MODEL CM21HT, WITH 2,050 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 25 FT ; HEIGHT: 70 FT ; LENGTH: 24 FT 3 IN WITH A/N: AMMONIA INJECTION, GRID	C80	C79 S82		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	A195.11, D12.11, D12.12, D12.13, E179.5, E179.6, E193.2				
STACK, NO. 7, HEIGHT: 210 FT ; DIAMETER: 20 FT 11 IN A/N: 470656	S82	C80							
Process 2: EXTERNAL CO System 2: BOILER, POW				1					

*	(1)(1A)	(1B) Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A)	(5B) Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to	section F and G of this permit to determine the monitoring	, recordkeeping and r	eporting requirements for this device.



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Facility	ID:	115	663	
Revisio	m #:		20	
Date:	Nove	ember 25, 2	014	

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: EXTERNAL CO	OMBUST	LION	. Internet		
BOILER, UNIT NO. 4, NATURAL GAS, COMBUSTION ENGINEERING, WITH 24 COMBUSTION ENGINEERING BURNERS, 3350 MMBTU/HR WITH A/N: 528832 STEAM TURBINE, STEAM GENERATOR, 335 MW	D13	C31	NOX: MAJOR SOURCE**	CO: 300 PPMV NATURAL GAS (5) [RULE 1303(b)(2) -Offset, 5-10-1996; <i>RULE 1303(b)</i> (2)-Offset, 12-6-2002]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 7 PPMV (5B) [RULE 2009, 5-11-2001]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]	A195.7, D28.2
SELECTIVE CATALYTIC REDUCTION, NORTH AND SOUTH DUCTS, VANADIUM/TITANIUM CATALYST BED, WITH 4058 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 28 FT 6 IN; HEIGHT: 17 FT ; LENGTH: 68 FT WITH A/N: 464316 AMMONIA INJECTION, GRID, WITH 300 NOZZLES	C31 C32	D13		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.4, D12.2, D12.3, D28.1, E73.2, E179.1, K48.2, K67.3

*	(1) (1A)	(1B) Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A)	(5B) Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to	section F and G of this permit to determine the monitoring	, recordkeeping and r	eporting requirements for this device.



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### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 5: INORGANIC C	HEMIC	AL STORAGE	E		
STORAGE TANK, UNDERGROUND, TK-001, AQUEOUS AMMONIA, CARBON STEEL, DOUBLE WALLED, WITH 3 TRANSFER PUMPS AND A PRV SET AT 50 PSIG, 20000 GALS; DIAMETER: 10 FT 2 IN; LENGTH: 37 FT 10 IN A/N: 379904	D30				C157.1, E144.1
Process 6: R219 EXEMPT	EQUIPM	MENT SUBJE	CT TO SOURCE-	SPECIFIC RULE	
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E38			ROG: (9) [RULE 1113, 9-6-2013; RULE 1171, 2-1-2008; RULE 1171, 5-1-2009]	K67.2

*	(1)(1A)(	1B) Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (	5B) Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to s	ection F and G of this permit to determine the monitoring	, recordkeeping and r	eporting requirements for this device.



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### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

### The operator shall comply with the terms and conditions set forth below:

#### [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]

[Devices subject to this condition : D67, D68]

A195.9 The 2.0 PPMV NOX emission limit(s) is averaged over 60 minutes at 15 percent O2, dry basis.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(1)-Modeling, 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988]

[Devices subject to this condition : D67, D68]

A195.10 The 2.0 PPMV VOC emission limit(s) is averaged over 60 minutes at 15 percent O2, dry basis.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(1)-Modeling, 12-6-2002]

[Devices subject to this condition : D67, D68]

A195.11 The **5 PPMV** (NH3 emission limit(s) is averaged over 60 minutes at 15 percent O2, dry basis. The operator shall calculate and continuously record the NH3 slip concentration using the following:.



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### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

#### The operator shall comply with the terms and conditions set forth below:

NH3 (ppmv) = [a-b\*c/1EE+06]\*1EE+06/b; where

a = NH3 injection rate (lb/hr)/17 lb/lb-mol

b = dry exhaust gas flow rate (scf/hr)/385.3 scf/lb-mol

c = change in measured NOx across the SCR, (ppmvd at 15 percent O2)

The operator shall install and maintain a NOx analyzer to measure the SCR inlet NOx ppmv accurate to plus or minus 5 percent calibrated at least once every twelve months.

The NOx analyzer shall be installed and operated within 90 days of initial start-up.

The operator shall use the above described method or another alternative method approved by the Executive Officer.

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information without corroborative data using an approved reference method for the determination of ammonia.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2012, 5-6-2005]

[Devices subject to this condition : C76, C80]

A327.1 For the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

[RULE 475, 10-8-1976; RULE 475, 8-7-1978]

[Devices subject to this condition : D67, D68]

### ATTACHMENT 4

CPV SENTINEL PERMIT



Title Page	
Facility ID:	152707
Revision #:	0
Date:	April 15, 2011

### FACILITY PERMIT TO OPERATE

#### CPV SENTINEL LLC 62575 POWER LINE RD DESERT HOT SPRINGS, CA 92240

### NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env. EXECUTIVE OFFICER

Βv

Mohsen Nazemi, P.E. Deputy Executive Officer Engineering & Compliance



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## SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR:

CPV SENTINEL LLC

62575 POWER LINE RD

55 SECOND ST STE 525

MARK TURNER

(415) 293-1463

April 14, 2016

MARK TURNER

PROJECT MANAGER

PROJECT MANAGER

SAN FRANCISCO, CA 94105

DESERT HOT SPRINGS, CA 92240

LEGAL OPERATOR (if different than owner):

**EQUIPMENT LOCATION:** 

MAILING ADDRESS:

**RESPONSIBLE OFFICIAL:** 

TITLE:

**TELEPHONE NUMBER:** 

CONTACT PERSON:

TITLE:

**TELEPHONE NUMBER:** (415) 293-1463

INITIAL TITLE V PERMIT ISSUED: April 15, 2011

TITLE V PERMIT EXPIRATION DATE:

TITLE V	RECLAIM	
YES	NOx:	YES
	SOx:	NO
	CYCLE:	1
	ZONE:	INLAND



## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL COM	BUSTI	ON	Monitoring Chit		
System 1: GAS TURBINES,	POWE	R GENERAT	TION		

(2) (2A) (2B) Denotes RECLAIM emission rate (1) (1A) (1B) Denotes RECLAIM emission factor Denotes BACT emission limit Denotes RECLAIM concentration limit (4) (3)(5) (5A) (5B) Denotes command and control emission limit Denotes air toxic control rule limit (6) (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) Denotes NSR applicability limit (7) (10)See section J for NESHAP/MACT requirements (9) See App B for Emission Limits Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device. \*\*



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### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Condition
Process I: INTERNAL CO	MBUSTI	ON	an the second states of the		
GAS TURBINE, CTG-1, NATURAL	D1	C3	NOX: MAJOR	CO: 4 PPMV NATURAL	A63.1, A63.2
GAS, GENERAL ELECTRIC, MODEL			SOURCE**	GAS (4) [RULE 1703(a)(2) -	A99.1, A99.3
MS100PA, SIMPLE CYCLE, 891.7				PSD-BACT, 10-7-1988]; CO:	A99.5, A99.7
AMBTU/HR AT 72 DEGREES F,				2000 PPMV NATURAL GAS	A99.9,
WITH WATER INJECTION WITH				(5) [RULE 407, 4-2-1982];	A195.1,
VN: 472139				NOX: 2.5 PPMV NATURAL	A195.2,
ermit to Construct Issued: 04/15/11				GAS (4) [RULE 1703(a)(2) -	A195.3,
				PSD-BACT, 10-7-1988; RULE	A327.1,
				2005, 4-20-2001]; NOX: 12.26	A433.1,
				LBS/MMSCF (1) [RULE	B61.1, C1.1,
				2012, 5-6-2005]; NOX: 15	C1.3, C1.6,
				PPMV NATURAL GAS (8)	D12.1, D29.1
				[40CFR 60 Subpart KKKK,	D29.2, D29.3
				7-6-2006]; NOX: 19	D82.1, D82.2
				LBS/MMSCF NATURAL	E193.1, H23.
				GAS (1) [RULE 2012,	I296.1, K40.
				5-6-2005]; PM10: 0.01	K67.1
				GRAINS/SCF NATURAL	
			ſ	GAS (5A) [RULE 475,	
				10-8-1976; RULE 475,	
			j	8-7-1978]; PM10: 0.1	
				GRAINS/SCF NATURAL	
				GAS (5) [RULE 409,	
	{ }			8-7-1981]; PM10: 11 LBS/HR	
				NATURAL GAS (5B) [RULE	
				475, 10-8-1976; RULE 475,	
				8-7-1978]; SO2: (9) [40CFR	
				72 - Acid Rain Provisions,	
				11-24-1997]; SOX: 0.06	ļ
				LBS/MMBTU NATURAL	
				GAS (8) [40CFR 60 Subpart	
				KKKK, 7-6-2006]; VOC: 2	
				PPMV NATURAL GAS (4)	
				[RULE 1303(a)(1)-BACT,	
				5-10-1996; RULE 1303(a)(1)	
(1) (1A) (1B) Denotes RECLAIM emission factor			(2) (2A) (2B) Denotes RI	ECLAIM emission rate	· ·
(3) Denotes RECLAIM conce	entration limit		(4) Denotes B.	ACT emission limit	
(5) (5A) (5B) Denotes command and com	ntrol emission	limit	(6) Denotes ai	r toxic control rule limit	
(7) Denotes NSR applicability	y limit		(8) (8A) (8B) Denotes 40	CFR limit (e.g. NSPS, NESHAPS	, etc.)
(9) See App B for Emission I	.imi <b>t</b> s		(10) See section	n J for NESHAP/MACT requireme	nts



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## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process I: INTERNAL CO	MBUST	ION			
				-BACT, 12-6-2002]	*
GENERATOR, 103 MW					
CO OXIDATION CATALYST, NO. 1, BASF, WITH 150 CUBIC FEET OF TOTAL CATALYST VOLUME. A/N: 472140 Permit to Construct Issued: 04/15/11	C3	D1 C4 E54 E55			
SELECTIVE CATALYTIC REDUCTION, NO. 1, CORMETECH CHMT-2, 812 CU.FT.; WIDTH: 2 FT 2 IN; HEIGHT: 4 FT 2 IN; LENGTH: 10 FT 11 IN WITH A/N: 472140 Permit to Construct Issued: 04/15/11	C4	C3 S6		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
AMMONIA INJECTION, GRID STACK, NO. 1, HEIGHT: 90 FT ; DIAMETER: 13 FT 6 IN A/N: 472140 Permit to Construct Issued: 04/15/11	S6	C4	· · · · · · · · · · · · · · · · · · ·		

	(1)(1A)(1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
*	Refer to section	on F and G of this permit to determine the monitoring, recor	dkeeping and r	eporting requirements for this device.



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### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process I: INTERNAL CO	MBUSTI	ON .			
GAS TURBINE, CTG-2, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, 861.7 MMBTU/HR AT 72 DEGREES F, WITH WATER INJECTION WITH A/N: 472141 Permit to Construct Issued: 04/15/11	D7	C9	NOX: MAJOR SOURCE**	CO: 4 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 12.26 LBS/MMSCF (1) [RULE 2012, 5-6-2005]; NOX: 12.26 LBS/MMSCF (1) [RULE 2012, 5-6-2005]; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 19 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM10: 0.01 GRAINS/SCF NATURAL GAS (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM10: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; PM10: 11 LBS/HR NATURAL GAS (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 DBN(V NATURAL GAS (4)	A63.1, A63.2, A99.1, A99.3, A99.5, A99.7, A99.9, A195.1, A195.3, A327.1, A433.1, B61.1, C1.1, C1.3, C1.6, D12.1, D29.1, D29.2, D29.3, D82.1, D82.2, E193.1, I296.1, K40.1, K67.1
		,		[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)	
<ul> <li>(1) (1A) (1B) Denotes RECLAIM emiss</li> <li>(3) Denotes RECLAIM conce</li> <li>(5) (5A) (5B) Denotes command and cor</li> <li>(7) Denotes NSR applicability</li> <li>(9) See App B for Emission L</li> </ul>	entration limi atrol emission y limit		(6) Denotes ai (8) (8A) (8B) Denotes 40	PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)	



## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: INTERNAL CO	MBUST	ION			
				-BACT, 12-6-2002]	·····
GENERATOR, 103 MW					
CO OXIDATION CATALYST, NO. 2, BASF, WITH 150 CUBIC FEET OF TOTAL CATALYST VOLUME. A/N: 472142 Permit to Construct Issued: 04/15/11	C9	D7 C10			
SELECTIVE CATALYTIC REDUCTION, NO. 2, CORMETECH CHMT-2, 812 CU.FT.; WIDTH: 2 FT 2 IN; HEIGHT: 4 FT 2 IN; LENGTH: 10 FT 11 IN WITH A/N: 472142 Permit to Construct Issued: 04/15/11	C10	C9 S12		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(2)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
AMMONIA INJECTION, GRID STACK, NO. 2, HEIGHT: 90 FT ; DIAMETER: 13 FT 6 IN A/N: 472142 Permit to Construct Issued: 04/15/11	S12	C10			

*	(1) (1A) (1B)	) Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	) Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to sect	ion F and G of this permit to determine the monitoring, reco	dkeeping and r	eporting requirements for this device.



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## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL CO	MBUSTI	ON			
Process 1: IN DERNAL CO GAS TURBINE, GTG 3, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, 891.7 MMBTU/HR AT 72 DEGREES F, WITH WATER INJECTION WITH A/N: 472143 Permit to Construct Issued: 04/15/11	D13	C15	NOX: MAJOR SOURCE**	CO: 4 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 20000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 12.26 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 19 LBS/MMSCF (1) [RULE 2012, 5-6-2005]; PM10: 0.01 GRAINS/SCF NATURAL GAS (5A) [RULE 475, 10-8-1976; <i>RULE 475,</i> 8-7-1978]; PM10: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1978]; PM10: 11 LBS/HR NATURAL GAS (5B) [RULE 475, 8-7-1978]; SO2: (8) [40CFR 72 - Acid Rain Provisions, 11-24-1997];	A63.1, A63.2, A99.1, A99.3, A99.5, A99.7, A99.9, A195.1, A195.2, A195.3, A327.1, A433.1, B61.1, C1.1, C1.3, C1.6, D12.1, D29.1, D29.2, D29.3, D82.1, D82.2, E193.1, H23.1, I296.1, K40.1, K67.1
				SOX: 0.06 LBS/MMSCF NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE	
<ul> <li>(1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> <li>* Refer to section F and G of this permit to determine the monitoring, section F and G of the sectio</li></ul>			(2) (2A) (2B) Denotes RECLAIM emission rate         (4) Denotes BACT emission limit         (6) Denotes air toxic control rule limit         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)         (10) See section J for NESHAP/MACT requirements		



### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL CO	MBUST	ION .		anti duga a	
GENERATOR, 103 MW					
CO OXIDATION CATALYST, NO. 3, BASF, WITH 150 CUBIC FEET OF TOTAL CATALYST VOLUME. A/N: 472145	C15	D13 C16			
Permit to Construct Issued: 04/15/11	_				
SELECTIVE CATALYTIC REDUCTION, NO.3, CORMETECH CHMT-2, 812 CU.FT.; WIDTH: 2 FT 2 IN; HEIGHT: 4 FT 2 IN; LENGTH: 10 FT 11 IN WITH A/N: 472145 Permit to Construct Issued: 04/15/11	C16	C15 S18		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
AMMONIA INJECTION, GRID	1	C28			
STACK, NO. 3, HEIGHT: 90 FT; DIAMETER: 13 FT 6 IN A/N: 472145 Permit to Construct Issued: 04/15/11	S18	C16			

•	(1) (1A) (1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to section	on F and G of this permit to determine the monitoring, recor	dkeeping and n	eporting requirements for this device.



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#### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL CO	MBUST	[ON			
GAS TURBINE, GTG 4, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, 891.7 MMBTU/HR AT 72 DEGREES F, WITH WATER INJECTION WITH A/N: 472147 Permit to Construct Issued: 04/15/11	D19	C21	NOX: MAJOR SOURCE**	CO: 4 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 2.5 PPMV (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 12.26 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; NOX: 15 PPMV (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 15 PPMV (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 19 LBS/MMSCF (1) ; PM10: 0.01 GRAINS/SCF NATURAL GAS (5A) [RULE 475, 10-8-1976; <i>RULE 475,</i> 8-7-1978]; PM10: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; PM10: 11 LBS/HR NATURAL GAS (5B) [RULE 475, 10-8-1976; <i>RULE 475,</i> 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; <i>RULE 1303(a)(1)</i>	A63.1, A63.2, A99.1, A99.3, A99.5, A99.7, A99.9, A195.1, A195.2, A195.3, A327.1, A433.1, B61.1, C1.1, C1.3, C1.6, D12.1, D29.1, D29.2, D29.3, D82.1, D82.2, E193.1, H23.1, I296.1, K40.1, K67.1

(1) (1A) (1B) Denotes RECLAIM emission factor

- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits

- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
  (10) See section J for NESHAP/MACT requirements

Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process I: INTERNAL CO	MBUST	ION			
GENERATOR, 103 MW					
CO OXIDATION CATALYST, NO. 4, BASF, WITH 150 CUBIC FEET OF TOTAL CATALYST VOLUME. A/N: 472149	C21	D19 C22			
Permit to Construct Issued: 04/15/11					
SELECTIVE CATALYTIC REDUCTION, NO.4, CORMETCH CHMT-2, 812 CU.FT.; WIDTH: 2 FT 2 IN; HEIGHT: 4 FT 2 IN; LENGTH: 10 FT 11 IN WITH A/N: 472149 Permit to Construct Issued: 04/15/11	C22	C21 \$24		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
AMMONIA INJECTION, GRID		{			
STACK, NO. 4, HEIGHT: 90 FT; DIAMETER: 13 FT 6 IN A/N: 472149 Permit to Construct Issued: 04/15/11	S24	C22			

*	(1)(1A)(1B)	Denotes RECLAIM emission factor	(2)(2A)(2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to section	on F and G of this permit to determine the monitoring, recor	dkeeping and r	eporting requirements for this device.



### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions	
Process 1: INTERNAL CO	MBUSTI	ON				
GAS TURBINE, GTG 5, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, 891.7 MMBTU/HR AT 72 DEGREES F, WITH WATER INJECTION WITH A/N: 472154 Permit to Construct Issued: 04/15/11	<u> </u>	C27	NOX: MAJOR SOURCE**	CO: 4 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMM NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 12.26 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 19 LBS/MMSCF (1) [RULE 2012, 5-6-2005]; PM10: 0.01 GRAINS/SCF NATURAL GAS (5C) [RULE 475, 10-8-1976; <i>RULE 475,</i> 8-7-1978]; PM10: 0,1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; PM10: 11 LBS/HR NATURAL GAS (5B) [RULE 474, 12-4-1981; RULE 475, 10-8-1976]; SO2: (8) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2	A63.1, A63.2, A99.1, A99.3, A99.5, A99.7, A99.9, A195.1, A195.2, A195.3, A327.1, A433.1, B61.1, C1.1, C1.3, C1.6, D12.1, D29.1, D29.2, D29.3, D82.1, D82.2, E193.1, H23.1 1296.1, K40.1, K67.1	
				PPMM NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)		
<ul> <li>(1) (1A) (1B) Denotes RECLAIM emis</li> <li>(3) Denotes RECLAIM conc</li> <li>(5) (5A) (5B) Denotes command and cc</li> <li>(7) Denotes NSR applicability</li> </ul>	entration limit entrol emission		(6) Denotes a		S, etc.)	
(9) See App B for Emission B Refer to section E and G of this permit i		e monitoring soon	(10) See section J for NESHAP/MACT requirements , recordkeeping and reporting requirements for this device.			



## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: INTERNAL CO	MBUSTI	ON			
				-BACT, 12-6-2002]	
GENERATOR, 103 MW					
CO OXIDATION CATALYST, NO.5, BASF, WITH 150 CUBIC FEET OF TOTAL CATALYST VOLUME. A/N: 472153	C27	D25 C28			
Permit to Construct Issued: 04/15/11					·
SELECTIVE CATALYTIC REDUCTION, NO.5, CORMETECH CHMT-2, 812 CU.FT.; WIDTH: 2 FT 2 IN; HEIGHT: 4 FT 2 IN; LENGTH: 10 FT 11 IN WITH A/N: 472153 Permit to Construct Issued: 04/15/11	C28	B17 C27 \$30		(NH3: 5 PPMV NATURAL) (GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT; 12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
AMMONIA INJECTION, GRID STACK, NO. 5, HEIGHT: 90 FT ;	S30	C28		<u>}</u>	<u></u>
DIAMETER: 13 FT 6 IN A/N: 472153 Permit to Construct Issued: 04/15/11					

ŧ	(1)(1A)(1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to secti	on F and G of this permit to determine the monitoring, reco	dkeeping and r	eporting requirements for this device.



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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Condition		
Process L. INTERNAL CO	MBUSTI	ION					
GAS TURBINE, GTG 6, NATURAL	D31	C33	NOX: MAJOR	CO: 4 PPMV NATURAL	A63.1, A63.2,		
GAS, GENERAL ELECTRIC, MODEL			SOURCE**	GAS (4) [RULE 1703(a)(2) -	A99.1, A99.3,		
MS100PA, SIMPLE CYCLE, 891.7				PSD-BACT, 10-7-1988]; CO:	A99.5, A99.7,		
IMBTU/HR AT 72 DEGREES F,		Ċ		2000 PPMV NATURAL GAS	A99.9,		
VITH WATER INJECTION WITH				(5) [RULE 407, 4-2-1982];	A195.1,		
/N: 472154				NOX: 2.5 PPMV NATURAL	A195.2,		
ermit to Construct Issued: 04/15/11				GAS (4) [RULE 1703(a)(2) -	A195.3,		
				PSD-BACT, 10-7-1988; RULE	A327.1,		
				2005, 5-6-2005]; NOX: 12.26	A433.1,		
				LBS/MMSCF NATURAL	B61.1, C1.1,		
				GAS (1) [RULE 2012,	C1.3, C1.6,		
				5-6-2005]; NOX: 15 PPMV	D12.1, D29.1		
				NATURAL GAS (8) [40CFR	D29.2, D29.3		
				60 Subpart KKKK, 7-6-2006];	D82.1, D82.2		
				NOX: 19 LBS/MMSCF (1)	E193.1, H23.		
				[RULE 2012, 5-6-2005];	I296.1, K40.1		
				PM10: 0.01 GRAINS/SCF	K67.1		
				NATURAL GAS (5A) [RULE			
				475, 10-8-1976; RULE 475,			
				8-7-1978]; PM10: 0.1			
				GRAINS/SCF NATURAL			
				GAS (5) [RULE 409,			
				8-7-1981]; PM10: 11 LBS/HR			
				NATURAL GAS (5B) [RULE			
				475, 10-8-1976; RULE 475,			
				8-7-1978]; SO2: (9) [40CFR			
				72 - Acid Rain Provisions,			
				11-24-1997]; SOX: 0.06			
				LBS/MMBTU NATURAL			
				GAS (8) [40CFR 60 Subpart			
				KKKK, 7-6-2006]; VOC: 2			
				PPMV NATURAL GAS (4)			
				[RULE 1303(a)(1)-BACT,			
				5-10-1996; RULE 1303(a)(1)			
				-BACT, 12-6-2002]			
(1) (1A) (1B) Denotes RECLAIM emis	sion factor	·	(2) (2A) (2B) Denotes RI	· · · · · · · · · · · · · · · · · · ·	<u> </u>		
(3) Denotes RECLAIM conc		it		ACT emission limit			
(5) (5A) (5B) Denotes command and co			••	r toxic control rule limit			
(7) Denotes NSR applicabili					etc.)		
(9) See App B for Emission Limits			<ul> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul>				



## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL CO	MBUSTI	ON			
GENERATOR, 103 MW					
CO OXIDATION CATALYST, NO. 6, BASF, WITH 150 CUBIC FEET OF TOTAL CATALYST VOLUME. A/N: 472155	C33	D31 C34			
Permit to Construct Issued: 04/15/11					
SELECTIVE CATALYTIC REDUCTION, NO. 6, CORMETECH CHMT-2, 812 CU.FT.; WIDTH: 2 FT 2 IN; HEIGHT: 4 FT 2 IN; LENGTH: 10 FT 11 IN WITH A/N: 472155 Permit to Construct Issued: 04/15/11	C34	C33 S36		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
AMMONIA INJECTION, GRID					
STACK, NO.6, HEIGHT: 90 FT; DIAMETER: 13 FT 6 IN A/N: 472155 Permit to Construct Issued: 04/15/11	\$36	C34			

*	(1) (1A) (1B)	Denotes RECLAIM emission factor	(2)(2A)(2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)		(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to secti	on F and G of this permit to determine the monitoring, recor	dkeeping and r	eporting requirements for this device.



## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL CO	MBUST	ON			
GAS TURBINE, GTG 7, NATURAL	D37	C39	NOX: MAJOR	CO: 4 PPMV NATURAL	A63.1, A63.2,
JAS, GENERAL ELECTRIC, MODEL			SOURCE**	GAS (4) [RULE 1703(a)(2) -	A99.1, A99.3,
MS100PA, SIMPLE CYCLE, 891.7	ł			PSD-BACT, 10-7-1988]; CO:	A99.5, A99.7,
AMBTU/HR AT 72 DEGREES F,				2000 PPMV NATURAL GAS	A99.9,
VITH WATER INJECTION WITH		1		(5) [RULE 407, 4-2-1982];	A195.1,
√N: 472156				NOX: 2.5 PPMV NATURAL	A195.2,
ermit to Construct Issued: 04/15/11				GAS (4) [RULE 1703(a)(2) -	A195.3,
				PSD-BACT, 10-7-1988; RULE	A327.1,
				2005, 5-6-2005]; NOX: 12.26	A433.1,
				LBS/MMSCF NATURAL	B61.1, C1.1,
				GAS (1) [RULE 2012,	C1.3, C1.6,
				5-6-2005]; NOX: 15 PPMV	D12.1, D29.1,
				NATURAL GAS (8) [40CFR	D29.2, D29.3,
				60 Subpart KKKK, 7-6-2006];	D82.1, D82.2,
		j		NOX: 19 LBS/MMSCF (1)	E193.1, H23.1
		}		[RULE 2012, 5-6-2005];	1296.1, K40.1,
				PM10: 0.01 GRAINS/SCF	K67.1
			1	NATURAL GAS (5A) [RULE	
		}		475, 10-8-1976; RULE 475,	
				8-7-1978]; PM10: 0.1	
				GRAINS/SCF NATURAL	
				GAS (5) [RULE 409,	
				8-7-1981]; PM10: 11 LBS/HR	
	1	}		NATURAL GAS (5B) [RULE	
				475, 10-8-1976; <i>RULE 475,</i> 8-7-1978]; SO2: (9) [40CFR	
				72 - Acid Rain Provisions,	
				11-24-1997]; SOX: 0.06	
	1			LBS/MMBTU NATURAL	
		}	1	GAS (8) [40CFR 60 Subpart	
		)	-	KKKK, 7-6-2006]; VOC: 2	
				PPMV NATURAL GAS (4)	
				[RULE 1303(a)(1)-BACT,	
				5-10-1996; RULE 1303(a)(1)	
	1			-BACT, 12-6-2002]	
(1) (1A) (1B) Denotes RECLAIM emis (3) Denotes RECLAIM conc		it	(2) (2A) (2B) Denotes RI (4) Denotes B.	<u> </u>	<u> </u>
(5) (5A) (5B) Denotes command and co	ntrol emissio	n limit		r toxic control rule limit	
(7) Denotes NSR applicabilit	y limit			CFR limit (e.g. NSPS, NESHAPS	, etc.)
(9) See App B for Emission	-			n J for NESHAP/MACT requireme	



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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL CO	MBUST	IÓN			
GENERATOR, 103 MW					
CO OXIDATION CATALYST, NO. 7, BASF, WITH 150 CUBIC FEET OF TOTAL CATALYST VOLUME. A/N: 472157 Permit to Construct Issued: 04/15/11	C39	D37 C40			
SELECTIVE CATALYTIC REDUCTION, NO. 7, CORMETECH CHMT-2, 812 CU.FT.; WIDTH: 2 FT 2 IN; HEIGHT: 4 FT 2 IN; LENGTH: 10 FT 11 IN WITH A/N: 472158 Permit to Construct Issued: 04/15/11	C40	C39 \$42		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
AMMONIA INJECTION, GRID					

*	(1) (1A) (1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
•	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
**	Refer to secti	on F and G of this permit to determine the monitoring, recor	dkeeping and r	eporting requirements for this device.



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Equipment	ID No.	Connected To	RECLAIM Source Type/	Emissions <sup>*</sup> And Requirements	Conditions
			Monitoring Unit		
Process 1: INTERNAL CO	MBUSTI	ON .			
GAS TURBINE, GTG8, NATURAL	D43	C45	NOX: MAJOR	CO: 4 PPMV NATURAL	A63.1, A63.2,
GAS, GENERAL ELECTRIC, MODEL			SOURCE**	GAS (4) [RULE 1703(a)(2) -	A99.1, A99.3,
MS100PA, SIMPLE CYCLE, 891.7				PSD-BACT, 10-7-1988]; CO:	A99.5, A99.7,
MMBTU/HR AT 72 DEGREES F,				2000 PPMV NATURAL GAS	A99.9,
WITH WATER INJECTION WITH				(5) [RULE 407, 4-2-1982];	A195.1,
VN: 472158				NOX: 2.5 PPMV NATURAL	A195.2,
ermit to Construct Issued: 04/15/11				GAS (4) [RULE 1703(a)(2) -	A195.3,
				PSD-BACT, 10-7-1988; RULE	A327.1,
				2005, 5-6-2005]; NOX: 12.26	A433.1,
				LBS/MMSCF NATURAL	B61.1, C1.1,
				GAS (1) [RULE 2012,	C1.3, C1.6,
				5-6-2005]; NOX: 15 PPMV	D12.1, D29.1,
			ļ	NATURAL GAS (8) [40CFR	D29.2, D29.3,
				60 Subpart KKKK, 7-6-2006];	D82.1, D82.2,
				NOX: 19 LBS/MMSCF	H23.1, 1296.1
				NATURAL GAS (1A) [RULE	K40.1, K67.1
				2012, 5-6-2005]; PM10: 0.01	
			-	GRAINS/SCF NATURAL	
				GAS (5A) [RULE 475,	
				10-8-1976; RULE 475,	
				8-7-1978]; PM10: 0.1	1
				GRAINS/SCF NATURAL	
				GAS (5) [RULE 409,	
				8-7-1981]; PM10: 11 LBS/HR	
				NATURAL GAS (5B) [RULE	
				475, 10-8-1976; RULE 475,	
				8-7-1978]; SO2: (9) [40CFR	
				72 - Acid Rain Provisions,	
				11-24-1997]; SOX: 0.06	
				LBS/MMBTU NATURAL	
				GAS (8) [40CFR 60 Subpart	
				KKKK, 7-6-2006]; VOC: 2	
				PPMV NATURAL GAS (4)	
				[RULE 1303(a)(1)-BACT,	
				5-10-1996; RULE 1303(a)(1)	
(1) (1A) (IB) Denotes RECLAIM emis	sion factor		(2) (2A) (2B) Denotes R	ECLAIM emission rate	•
(3) Denotes RECLAIM conc	entration limi	t	(4) Denotes B.	ACT emission limit	
(5) (5A) (5B) Denotes command and co	ontrol emission	n limit	(6) Denotes ai	r toxic control rule limit	
(7) Denotes NSR applicability	ty limit		(8) (8A) (8B) Denotes 40	CFR limit (e.g. NSPS, NESHAPS	, etc.)
(9) See App B for Emission	Limite		(10) See section	n J for NESHAP/MACT requirement	



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## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: INTERNAL CO	MBUST	ION .			
				-BACT, 12-6-2002]	
GENERATOR, 103 MW					
CO OXIDATION CATALYST, NO. 8, BASF, WITH 150 CUBIC FEET OF TOTAL CATALYST VOLUME. A/N: 472160	C45	D43 C46			
Permit to Construct Issued: 04/15/11					
SELECTIVE CATALYTIC REDUCTION, NO. 8, CORMETECH CHMT-2, 812 CU.FT.; WIDTH: 2 FT 2 IN; HEIGHT: 4 FT 2 IN; LENGTH: 10 FT 11 IN WITH A/N: 472160 Permit to Construct Issued: 04/15/11 AMMONIA INJECTION, GRID	C46	C45 S48		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
STACK, NO.8, HEIGHT: 90 FT; DIAMETER: 13 FT 6 IN A/N: 472157 Permit to Construct Issued: 04/15/11	S48	C46			

#	Defer to sectiv	on F and G of this permit to determine the monitoring rec	ardkeening and r	enorting requirements for this device
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
	(7)	Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(1)(1A)(1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate



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### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions <sup>*</sup> And Requirements	Conditions
Process 1: INTERNAL CO	MBUSTI	ON			
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CLARKE, MODEL JU6H-UFADTO, DRIVING AN FIRE PUMP, WITH AFTERCOOLER, TURBOCHARGER, 274 HP A/N: 472165 Permit to Construct Issued: 04/15/11	D49		NOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; NOX: 134 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]; PM10: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]; SOX: 0.005 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	B61.2, C1.4, C1.7, D12.5, I296.3, K67.3
Process 2: INORGANIC C	HEMIC/	L STORAGE			
STORAGE TANK, TK-1, 29.4% AQUEOUS AMMONIA, WITH PRV SET AT 25 PSIG, 12000 GALS; DIAMETER: 9 FT 4 IN; HEIGHT: 12 FT A/N: 472161 Permit to Construct Issued: 04/15/11	D52				C157.1, E144.1, E193.1, K67.2

(1) (1A) (1B) Denotes RECLAIM emission factor

- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit

(7) Denotes NSR applicability limit

(9) See App B for Emission Limits

(2) (2A) (2B) Denotes RECLAIM emission rate

(4) Denotes BACT emission limit

- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)

See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

(10)



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# FACILITY PERMIT TO OPERATE CPV SENTINEL LLC

## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected To	RECLAIM Source Type/	Emissions <sup>*</sup> And Requirements	Conditions
			Monitoring Unit		
Process 2: INORGANIC CH	EDATE: 4	L SFORAGE		and the second second second second	
STORAGE TANK, TK-2, 29.4%	D53				C157.1,
AQUEOUS AMMONIA, WITH PRV					E144.1,
SET AT 25 PSIG, 12000 GALS;					E193.1, K67.2
DIAMETER: 9 FT 4 IN; HEIGHT: 12					
FT					
A/N: 472162					
Permit to Construct Issued: 04/15/11			<u> </u>		

	(1)(1A)(1B)	Denotes RECLAIM emission factor	(2) (2A) (2B)	Denotes RECLAIM emission rate
	(3)	Denotes RECLAIM concentration limit	(4)	Denotes BACT emission limit
	(5) (5A) (5B)	Denotes command and control emission limit	(6)	Denotes air toxic control rule limit
		Denotes NSR applicability limit	(8) (8A) (8B)	Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
	(9)	See App B for Emission Limits	(10)	See section J for NESHAP/MACT requirements
* *	Refer to section	on F and G of this permit to determine the monitoring, reco	rdkeeping and r	eporting requirements for this device.



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## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

A195.4 The 5 PPMV NH3 emission limit(s) is averaged over 60 minutes at 15% O2, dry basis. The operator shall calculate and continuously record the NH3 slip concentration using the following.

NH3 (ppmv) = [a-b\*c/1EE+06]\*1EE+06/b; where

a = NH3 injection rate (lbs/hr)/17(lb/lb-mol)

b = dry exhaust gas flow rate (scf/hr)/385.3 scf/lb-mol)

c = change in measured NOx across the SCR (ppmvd at 15% O2)

The operator shall install and maintain a NOx analyzer to measure the SCR inlet NOx ppmv accurate to plus or minus 5 percent calibrated at least once every twelve months

The NOx analyzer shall be installed and operated within 90 days of initial start-up

The operator shall use the above described method or another alternative method approved by the Executive Officer.

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information without corroborative data using an approved reference method for the determination of ammonia

#### [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C4, C10, C16, C22, C28, C34, C40, C46]

A327.1 For the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

[RULE 475, 10-8-1976; RULE 475, 8-7-1978]

[Devices subject to this condition : D1, D7, D13, D19, D25, D31, D37, D43]

Attachment 3 Minor Title V Permit Change Request (Resubmittal) (September 28, 2017) Walnut Creek Energy, LLC 911 Bixby Drive City of Industry, CA 91745-1702



September 28, 2017

Christian Aviles South Coast Air Quality Management District 21865 E. Copley Drive Diamond Bar, CA 91765-4182

## Subject: Walnut Creek Energy Park - Facility ID 146536 RECLAIM/Title V Facility Permit

Dear Mr. Aviles,

Walnut Creek Energy, LLC (WCE) submitted the attached letters to the SCAQMD requesting minor changes to conditions in the RECLAIM/Title V permit on January 19, 2016 and June 28, 2016. We requested the following changes:

- Removal of the calibration requirement for the totalizing fuel meter for the emergency fire pump engine (Section H, Permit Condition D12.6 for Device Number D34);
- Clarification that the inlet temperature requirements for the Selective Catalytic Reduction (SCR) do not apply during startup and shutdown periods (Section H, Permit Condition D12.3 for Device Numbers C4, C10, C16, C22 and C28);
- Clarification that the operating load of 100 percent for PM<sub>10</sub> emission tests also applies to PM<sub>2.5</sub> emission tests (Section H, Permit Condition D29.1 for Device Numbers D1, D7, D13, D19 and D25);
- The addition of some applicable conditions from 40 CFR 60, Subpart IIII for the emergency fire pump engine (Device Number D34); and
- A change to the ammonia emission (i.e., "slip") limit from 5.0 ppmv to 5 ppmv (Section H, Permit Condition A195.4 for Device Numbers C4, C10, C16, C22 and C28)

In July 2017 we received a renewal to the RECLAIM/Title V permit dated July 6, 2017 that did not include the requested changes. In addition to the above referenced changes, we believe there are conditions in the July 6, 2017 RECLAIM/Title V permit that are missing device numbers and therefore, we are also asking for the following corrections:

- Addition of Device Number C4 to Section H, Permit Condition A195.4 (NH3 "slip" emission limit(s), calculation and monitoring requirements). Condition A195.4 currently references Device Numbers C10, C16, C22 and C28 (SCRs).
- Addition of Device Number C16 to Section H, Permit Condition D12.2 (NH3 flow meter requirements). Condition D12.2 currently references Device Numbers C4, C10, C22 and C28 (SCRs).

We intend to submit to the California Energy Commission (CEC) a copy of this request and file a minor Petition to Amend to modify Air Quality conditions AQ-4 and AQ-7. Proposed amendments to AQ-4 will correct the ammonia emission limit to 5 ppm and proposed amendments to AQ-7 will to clarify that this condition will also address PM<sub>2.5</sub> source test requirements and ensure consistency of the respective conditions in the Title V and the CEC license. If you have any questions or need further information, please don't hesitate to contact me at (626) 986-0370.

Sincerely,

Aux MAhum

Rick McPherson Plant Manager

Attachments

WCEP O&M File: 3.3.2.2

cc: Andrew Lee, SCAQMD Dale Rundquist, CEC CEC Dockets (05-AFC-2C) George Piantka, NRG Energy, Inc. Heather MacLeod, NRG Energy, Inc.