

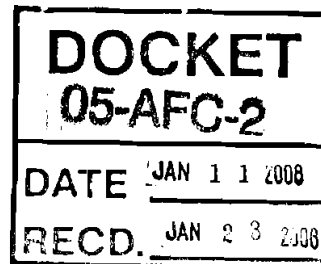


South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

January 11, 2008

Mr. Jack Caswell
Project Manager
California Energy Commission
1516 9th Street
Sacramento, CA 95814-5512



Subject: Addendum to the Determination of Compliance (DOC) for Edison Mission Energy's (EME's) Proposed Walnut Creek Energy, LLC (WCE) Project (Facility ID No. 146536), to be located at 911 Bixby Drive, City of Industry, CA 91744; (05-AFC-2)

Dear Mr. Caswell:

This is in reference to Edison Mission Energy's (EME's) Proposed Walnut Creek Energy, LLC (WCE) Power Plant Project and WCE's Application for Certification (AFC) and Title V Application for a Permit to Construct filed with the California Energy Commission (CEC) and the South Coast Air Quality Management District (AQMD), respectively. As you know, WCE has proposed to construct a 500 megawatt (MW) power plant, Walnut Creek Energy, LLC, at 911 Bixby Drive, City of Industry, CA 91744. As part of this project, WCE has proposed to offset emission increases from the WCE Project through accessing AQMD's Priority Reserve credits pursuant to Rule 1309.1.

On September 8, 2006 the AQMD Governing Board adopted amendments to Rule 1309.1 to allow Electric Generating Facilities (EGFs) access to the AQMD's Priority Reserve credits to offset their emission increases. However, due to significant public comments and concerns expressed at the adoption hearing, the AQMD Governing Board directed AQMD staff to propose further amendments to Rule 1309.1 in response to public concerns about emissions and public health impacts associated with the operation of EGFs. On October 31, 2006 and February 16, 2007 the AQMD issued a Preliminary Determination of Compliance (PDOC) and a Final Determination of Compliance (FDOC) to the WCE Project, respectively. However, at the time of issuance of the FDOC, AQMD informed CEC that due to the AQMD Governing Board's request for further amendments to Rule 1309.1, the WCE Project's eligibility to use Priority Reserve credits will not be determined until the AQMD Governing Board adopts further amendments to Rule 1309.1.

On August 3, 2007, the AQMD Governing Board adopted new amendments to Rule 1309.1, and replaced the September 8, 2006 version of Rule 1309.1 with the August 3, 2007 version. As you are aware, the requirements of Rule 1309.1 as amended on August 3, 2007 have changed significantly since WCE originally requested access to the Priority Reserve and since AQMD issued a PDOC and an FDOC for this project. The August 3, 2007 amendments includes a set of new requirements for EGFs in order to be qualified to access the Priority Reserve (WCE must comply with this set of requirements before any Determination of Compliance (DOC) or Proposed Title V Permit to Construct can be issued) and additional new requirements for EGFs prior to AQMD releasing any of the Priority Reserve credits (WCE must comply with this set of requirements before a Final Title V Permit to Construct can be issued). Included in the requirements that WCE must meet prior to issuance of any DOC or Proposed

Title V Permit are elements which require more stringent emission standards for Nitrogen Oxides, Fine Particulate Matter (PM10) and Toxics; consideration of the use of renewable/alternative energy; limitation on the number of annual operating hours; and other requirements. In response to information requests from AQMD (Letters dated August 16 and September 17, 2007), WCE has provided additional information to demonstrate compliance with the appropriate set of new requirements of Rule 1309.1 necessary to demonstrate that the project is qualified to access the Priority Reserve.

At this time AQMD has completed its review of the additional information submitted by WCE and prepared an Addendum Determination of Compliance (DOC) to the PDOC (dated October 31, 2006) and FDOC (dated February 6, 2007) indicating that upon AQMD's initial review, WCE complies with all of the requirements of Rule 1309.1, as amended on August 3, 2007, in order to qualify to access the Priority Reserve credits. However, since the Rule 1309.1 requirements have significantly changed, and the September 8, 2006 version of Rule 1309.1, which was the basis of the previously issued PDOC and FDOC, has been replaced with the August 3, 2007 version of Rule 1309.1, AQMD has determined that it is necessary to issue a new public notice for the new Addendum to the DOC and the Proposed Title V Permit to Construct for WCE and provide for a 30-day public comment and a 45-day EPA review period pursuant to AQMD Rules 212 and 3006.

Enclosed please find a copy of the public notice, Addendum to the DOC Analysis, and the draft Title V Facility Permit to Construct for the WCE project. The public notice is also being published in a newspaper of general circulation in the vicinity of the nearest affected area and is additionally being forwarded to other interested parties. Upon completion of the public comment and EPA review periods, AQMD will provide CEC with additional information related to the Addendum DOC to indicate whether or not any changes are being proposed to the Addendum DOC and Proposed Title V Permit as a result of the comments received during the comment period.

Also please note that in addition to being required to offset all emission increases subject to offsets pursuant to AQMD Rules 1303(b)(2) and 2005(b)(2) and the emission standards and other requirements discussed in the attached Addendum DOC Analysis, prior to AQMD releasing Priority Reserve credits to the WCE Project and issuing a Final Title V Permit, WCE must also demonstrate to the satisfaction of the Executive Officer that it has met all of the other applicable requirements of Rule 1309.1. These additional requirements are not intended to be satisfied prior to the release of the DOCs, but only prior to actual release of the Priority Reserve credits and issuance of the Final Title V Permit and include, but not limited to, the following summarized list of requirements:

Rule 1309.1(c)(2)

WCE pays a mitigation fee pursuant to subdivision (g).

Rule 1309.1(c)(3)

WCE conducts a due diligence effort as approved by the Executive Officer, to secure available ERCs for requested Priority Reserve pollutants. Such efforts shall include securing available ERCs including those available through state emission banks or creating ERCs through SIP approved credit generation programs as available.

Rule 1309.1(c)(4)

WCE enters into a long-term contract (at least one year) with the State of California to sell at least 50 percent of the portion of power which it has generated using the Priority Reserve Credits and the Executive Officer determines at the time of permitting, and based on consultations with State power agencies that the State of California is both entering into such long term contract and that a need for such contract exists at the time of permitting, if the facility is a net generator.

Rule 1309.1(d)(6)

WCE must use any ERCs held first, before access to the Priority Reserve is allowed.

Rule 1309.1(d)(14)

WCE secures final certification and approval for this project from the CEC, and has entered into a long term contract with Southern California Edison Company or the San Diego Gas and Electric Company or the State of California to provide electricity in Southern California.

If you have any questions regarding this project, please contact Mr. Kenneth L. Coats at (909) 396-2527 kcoats@aqmd.gov or Mr. John Yee at (909) 396-2531 jyee@aqmd.gov. For any questions regarding this letter and the Addendum to the DOC, please contact Mr. Michael D. Mills, Senior Manager at (909) 396-2578 mmills@aqmd.gov.

Sincerely,



Mohsen Nazemi, P.E.
Assistant Deputy Executive Officer
Engineering and Compliance

MN:ph

cc: Thomas J. McCabe, EME
Lawrence J. Kostrzewa, EME
Victor Yamada, WCE
Mike Carroll, Latham & Watkins, LLP
Scott Galati, Galati & Blek, LLP
Barry Wallerstein, AQMD (w/o enclosures)
Kurt Wiese, AQMD (w/o enclosures)
Carol Coy, AQMD (w/o enclosures)
Barbara Baird, AQMD (w/o enclosures)
Mike Mills, AQMD (w/o enclosures)

Enclosures: Public Notice
Proposed Title V Permit
Engineering Analysis

CERTIFIED MAIL
RETURN RECEIPT REQUESTED



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

NOTICE OF INTENT TO ISSUE PERMIT PURSUANT TO AQMD RULES 212 AND 3006

This notice is to inform you that the South Coast Air Quality Management District (AQMD) has received and reviewed permit applications for the proposed Walnut Creek Energy, LLC (WCE) power plant project and intends to issue a Title V Facility Permit 1) at the end of the 30-day public comment and review period and after all pertinent comments have been considered, 2) upon U.S. Environmental Protection Agency approval of the Title V permit, and 3) upon WCE demonstrating compliance with the additional requirements of AQMD Rule 1309.1 – Priority Reserve.

The AQMD is the air pollution control agency for the four county-region including Orange County and parts of Los Angeles, Riverside and San Bernardino counties. Anyone wishing to install or modify equipment that could control or be a source of air pollution within this region must first obtain a permit from the AQMD. Under certain circumstances, before a permit is granted, a public notice, such as this, is prepared by the AQMD and distributed.

The AQMD has evaluated the permit applications listed below for the following facility and determined that the project meets or will meet all applicable AQMD rules and regulations based upon the evaluation described below:

FACILITY: Walnut Creek Energy, LLC
911 Bixby Road
City of Industry, CA 91744
Facility ID No: 146536

CONTACT: Mr. Thomas J. McCabe, Regional Vice President
Edison Mission Energy
18101 Von Karman Avenue
Irvine, CA 92612

AQMD APPLICATION NUMBERS

Application Number	Equipment Description
450894	Combustion Engine, Gas Turbine No. 1
450895	Combustion Engine, Gas Turbine No. 2
450896	Combustion Engine, Gas Turbine No. 3
450897	Combustion Engine, Gas Turbine No. 4
450898	Combustion Engine, Gas Turbine No. 5
450899	Air Pollution Control Equipment, SCR/CO Catalyst for Turbine No. 1
450900	Air Pollution Control Equipment, SCR/CO Catalyst for Turbine No. 2
450901	Air Pollution Control Equipment, SCR/CO Catalyst for Turbine No. 3
450904	Air Pollution Control Equipment, SCR/CO Catalyst for Turbine No. 4
450907	Air Pollution Control Equipment, SCR/CO Catalyst for Turbine No. 5
450908	Emergency Fire Pump Engine
451185	Aqueous Ammonia Storage Tank
450854	Initial Title V Application

PROJECT DESCRIPTION

The project consists of construction and operation of a new power plant with the capability of generating a total of 500 megawatts (MW) of electrical power consisting of five (5) new, simple cycle GE LMS100 gas turbines with associated air pollution control systems, one (1) 340 brake horsepower diesel fuel fired emergency fire pump, and a 16,000 gallon capacity aqueous ammonia storage tank. Since the above equipment has the potential to emit pollutants in excess of the emission levels specified in AQMD Rule 212(g), a public notice is required.

DISTRIBUTION DATE: January 21, 2008

PROJECTED EMISSIONS

After the initial commissioning period, the total maximum monthly emissions from the operation of the proposed equipment in conjunction with the use of air pollution control systems is not expected to exceed the following:

Pollutant	Maximum Monthly Emissions, (pounds per month)
Nitrogen Oxides	20,179
Carbon Monoxide	32,663
Volatile Organic Compounds	4,439
Particulate Matter (diameter less than 10 microns)	14,019
Sulfur Dioxide	1,404
Ammonia	11,625

As a result of the burning of natural gas in the gas turbines, emissions from the proposed project also contains some pollutants that are considered toxic under AQMD Rule 1401-New Source Review of Toxic Air Contaminants. Therefore, a health risk assessment was performed for this project. The health risk assessment uses health protective assumptions in estimating actual risk to an individual person. Even assuming this health protective condition, the evaluation shows that the maximum individual cancer risk increase from the project is less than one-in-one-million. Also, acute and chronic indices, which measure non-cancer health impacts, are less than one. These levels of estimated risk are below the threshold limits of AQMD Rule 1401 (d) established for new or modified sources and below AQMD Rule 1309.1(b)(5)(A) for power plants. The health risk assessment (HRA) results are shown in the table below:

HRA Results

	Residential MICR	Commercial MICR	Residential HIA	Commercial HIA	Residential HIC	Commercial HIC
Gas Turbine No. 1	1.90×10^{-9}	2.12×10^{-10}	0.00021	0.000176	0.0000376	0.00000312
Gas Turbine No. 2	1.90×10^{-9}	2.12×10^{-10}	0.00021	0.000175	0.0000376	0.00000311
Gas Turbine No. 3	1.91×10^{-9}	2.12×10^{-10}	0.00021	0.000176	0.0000376	0.00000312
Gas Turbine No. 4	1.91×10^{-9}	2.12×10^{-10}	0.00023	0.000175	0.0000375	0.00000310
Gas Turbine No. 5	1.89×10^{-9}	2.14×10^{-10}	0.00020	0.000173	0.0000373	0.00000311
Total Project	6.23×10^{-7}	1.06×10^{-9}	0.0635	0.000879	0.0124	0.000156

Also, based on the engineering evaluation for this project, the AQMD has determined that the project complies with all of the applicable requirements to be qualified to access Priority Reserve credits pursuant to AQMD Rule 1309.1. However, the project must comply with additional requirements prior to the AQMD's release of the Priority Reserve credits and issuance of the Final Title V Permit.

This facility is a new Federal Title V and Title IV (Acid Rain) facility. Pursuant to AQMD Title V Permits Rule 3006 – Public Participation, any person may request a proposed permit hearing on an application for an Initial Title V or significant permit revision by filing with the Executive Officer a complete Hearing Request Form (Form 500G) for a proposed hearing within 15 days of the date of publication of this notice, as shown below. This form is available on the AQMD website at <http://www.aqmd.gov/permit/Formspdf/TitleV/AQMDForm500-G.pdf>, or alternatively, the form can be made available upon request by contacting Mr. Kenneth L. Coats at the e-mail and telephone number listed below. On or before the date the request is filed, the person requesting a proposed permit hearing must also send by first class a copy of the request to the facility address and contact person listed above.

THE FOLLOWING REQUIREMENTS MUST BE COMPLIED WITH PRIOR TO THE ISSUANCE OF FINAL PERMIT

In order for AQMD to be able to release any Priority Reserve credits and issue a Final Title V permit to this project, the applicant must comply with additional requirements of AQMD Rules and Regulations, including but not limited to the following:

Rule 1303(b)(2)

WCE must provide emission offsets for NO_x, VOC, SO_x, and PM₁₀ emissions. Emission offsets for PM₁₀, SO_x, and VOC will be provided in the form of Emission Reduction Credits (ERCs). Some or all of the emission offsets for PM₁₀, and SO_x may also be obtained from the AQMD's Priority Reserve pursuant to AQMD Rule 1309.1.

Rule 2005(b)(2)

Emission offsets for NO_x will be in the form of RECLAIM Trading Credits (RTCs).

Rule 1309.1(c)(2)

WCE pays a mitigation fee pursuant to subdivision (g).

Rule 1309.1(c)(3)

WCE conducts a due diligence effort [based on an ERC cost not to exceed the applicable mitigation fee for that pollutant at the location of the electrical generating facility (EGF) and as specified in subdivision (g) of Rule 1309.1] approved by the Executive Officer to secure available ERCs for requested Priority Reserve pollutants. Such efforts shall include securing available ERCs including those available through state emission banks or creating ERCs through SIP approved credit generation programs as available.

Rule 1309.1(c)(4)

WCE enters into a long-term contract (at least one year) with the State of California to sell at least 50 percent of the portion of power which it has generated using the Priority Reserve Credits and the Executive Officer determines at the time of permitting, and based on consultations with State power agencies that the State of California is both entering into such long term contract and that a need for such contract exists at the time of permitting, if the facility is a net generator.

Rule 1309.1(d)(6)

WCE must use any ERCs held first, before access to the Priority Reserve is allowed.

Rule 1309.1(d)(14)

WCE secures final certification and approval for this project from the California Energy Commission, and has entered into a long term contract with Southern California Edison Company or the San Diego Gas and Electric Company or the State of California to provide electricity in Southern California.

The proposed permit and other information are available for public review at the AQMD's headquarters in Diamond Bar, and at the La Puente Public Library, 15920 Central Avenue, La Puente, CA 91744. Additional information including the facility owner's compliance history submitted to the AQMD pursuant to Section 42336, or otherwise known to the AQMD, based on credible information, is available at the AQMD for public review by contacting Mr. Kenneth L. Coats (kcoats@aqmd.gov), Engineering and Compliance, South Coast Air Quality Management District, 21865 Copley Drive, Diamond Bar, CA 91765-4182, (909) 396-2527. A copy of the draft Permit to Construct can also be viewed at <http://www.aqmd.gov/webappl/PublicNotices/Search.aspx>.

Anyone wishing to comment on the air quality elements of this permit must submit comments in writing to the AQMD at the above address, attention Mr. Michael D. Mills. **Comments must be received within 30 days of the distribution/publication date of this notice, as shown below.** If you are concerned primarily about zoning decisions and the process by which the facility has been sited in this location, contact your local city or county planning department or the California Energy Commission at (916) 654-4640. For your general information, anyone experiencing air quality problems such as dust or odor can telephone in a complaint to the AQMD 24 hours a day by calling 1-800-CUT-SMOG (1-800-288-7664).

FACILITY PERMIT TO OPERATE

**WALNUT CREEK ENERGY PARK
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.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By _____
Carol Coy
Deputy Executive Officer
Engineering & Compliance

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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**FACILITY PERMIT TO OPERATE
WALNUT CREEK ENERGY PARK**

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : RULE 219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E32			VOC: (9) [RULE 1113,11-8-1996;RULE 1113,7-9-2004;RULE 1171,11-7-2003;RULE 1171,5-6-2005]	K67.3
RULE 219 EXEMPT EQUIPMENT, EXEMPT HAND WIPING OPERATIONS	E33			VOC: (9) [RULE 1171,11-7-2003;RULE 1171,5-6-2005]	

- * (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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION D: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
E32	1	3	0
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FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

- F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:
- (a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or
 - (b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

DEVICE CONDITIONS

K. Record Keeping/Reporting

- K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E32]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
 - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
 - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
 - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions 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 and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]
5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least: [204]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION E: ADMINISTRATIVE CONDITIONS

- a. Three years for a facility not subject to Title V; or
 - b. Five years for a facility subject to Title V.
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
 - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134, 204]
 - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
 - c. For a large NO_x source, compliance with a RECLAIM concentration limit shall be measured over a continuous 60 minutes for that source; [2012]
 - d. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
 - e. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO₂) and be averaged over 15 consecutive minutes; [407]
 - f. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO₂) at standard conditions and averaged over 15 consecutive minutes. [409]
 - g. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. All equipment operating under the RECLAIM program shall comply concurrently with all provisions of AQMD Rules and Regulations, except those listed in Table 1 of Rule 2001 for NO_x RECLAIM sources and Table 2 of Rule 2001 for SO_x RECLAIM sources. Those provisions listed in Tables 1 or 2 shall not apply to NO_x or SO_x emissions after the date the facility has demonstrated compliance with all monitoring and reporting requirements of Rules 2011 or 2012, as applicable. Provisions of the listed AQMD rules in Tables 1 or 2 which have initial implementation dates in 1994 shall not apply to a RECLAIM NO_x or SO_x source, respectively. [2001]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION E: ADMINISTRATIVE CONDITIONS

9. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
 - a. Brief description of the equipment tested.
 - b. Brief process description, including maximum and normal operating temperatures, pressures, through-put, etc.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
 - f. Description of calibration and quality assurance procedures.
 - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (no conflict of interest).
10. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD Rules or equipment-specific conditions. The report shall contain the following information: [204]
 - a. The results of the source test.
 - b. Brief description of the equipment tested.
 - c. Operating conditions under which test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Field and laboratory data forms, strip charts and analyses.
 - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
11. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION E: ADMINISTRATIVE CONDITIONS

12. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182.
[204]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

The Facility shall comply with all applicable monitoring and source testing requirements in Regulation XX. These requirements may include but are not limited to the following:

I. NOx Monitoring Conditions

A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate an AQMD certified direct or time-shared monitoring device or an approved alternative monitoring device for each major NOx source to continuously measure the concentration of NOx emissions and all other applicable variables specified in Rule 2012, Table 2012-1 and Rule 2012, Appendix A, Table 2-A to determine the NOx emissions rate from each source. The time-sharing of CEMS among NOx sources may be allowed by the Executive Officer in accordance with the requirements for time sharing specified in Appendix A. [2012]
2. Install, maintain, and operate a totalizing fuel meter approved by the Executive Officer for each major source. [2012]
3. If the facility is operating existing CEMS and fuel meters, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect prior to October 15, 1993 until the CEMS is certified pursuant to Rule 2012. [2012]
4. Use valid data collected by an AQMD certified or provisionally certified CEMS in proper operation that meets all the requirements of Appendix A of Rule 2012, unless final certification of the CEMS is denied, to determine mass emissions for all purposes, including, but not limited to, determining: [2012]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.
5. Follow missing data procedures as specified in Rule 2012 Appendix A whenever valid data is not available or collected to determine mass emissions for all purposes, including, but not limited to, determining: [2012]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

B. The Operator of a NOx Large Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2012, Table 2012-1, and Rule 2012, Appendix A, Table 4-A. The sharing of totalizing fuel meters may be allowed by the Executive Officer if the fuel meter serves process units which have the same emission factor or emission rate. The sharing of totalizing meter shall not be allowed for process units which are required to comply with an annual heat input limit. [2012]

II. NOx Source Testing and Tune-up Conditions

1. The operator shall conduct all required NOx source testing in compliance with an AQMD-approved source test protocol. [2012]
2. The operator shall, as applicable, conduct source tests for every large NOx source no later than December 31, 1996 and every 3 years thereafter. The source test shall include the determination of NOx concentration and a relative accuracy audit of the exhaust stack flow determination (e.g. in-stack flow monitor or fuel flow monitor based F-factor calculation). Such source test results shall be submitted per the schedule described by APEP. In lieu of submitting the first source test report, the facility permit holder may submit the results of a source test not more than 3 years old which meets the requirements when conducted. [2012]
3. All NOx large sources and NOx process units shall be tuned-up in accordance with the schedule specified in Rule 2012, Appendix A, Chapter 5, Table 5-B. [2012]
4. Process Unit source testing

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

The Facility shall comply with all applicable reporting and recordkeeping requirements in Regulation XX. These requirements may include but are not limited to the following:

I. Recordkeeping Requirements for all RECLAIM Sources

1. The operator shall maintain all monitoring data required to be measured or reported pursuant to Rule 2011 and Rule 2012, whichever is applicable. All records shall be made available to AQMD staff upon request and be maintained for at least:
 - a. Three years after each APEP report is submitted to AQMD for a facility not subject to Title V, unless a different time period is required in Rule 2011 or Rule 2012 [2011 & 2012]; or
 - b. Five years after each APEP report is submitted to AQMD for a facility subject to Title V. [3004(a)(4)(E)]
 - c. Notwithstanding the above, all data gathered or computed for intervals of less than 15 minutes shall only be maintained a minimum of 48 hours. [2011 & 2012]
2. The operator shall store on site and make available to the Executive Officer upon request: records used to determine emissions, maintenance records, sources test reports, relative accuracy test audit reports, relative accuracy audit reports and fuel meter calibration records. [2011 & 2012]

II. Reporting Requirements for all RECLAIM Sources

1. The operator shall submit a quarterly certification of emissions including the facility's total NOx or SOx emissions, whichever is applicable, for the quarter within 30 days after the end of the first three quarters and 60 days after the end of the fourth quarter of a compliance year. [2011 & 2012]

NOx Reporting Requirements

- A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:
 1. No later than 12 months after entry into the RECLAIM program or after the initial operation of a new major source, whichever is later, install, maintain, and operate a reporting device to electronically report everyday to the AQMD central station for each major NOx source, the total daily mass emissions of NOx and daily status codes. Such data

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

shall be transmitted by 5:00 p.m. of the following day. If the facility experiences a power, computer, or other system failure that prevents the submittal of the daily report, the Facility Permit holder shall be granted 24 hours extension to submit the report. [2012]

2. Calculate NO_x emissions pursuant to missing data procedures set forth in Appendix A, Chapter 2 of Rule 2012 if the Facility Permit holder fails to meet the deadline for submitting the daily report. [2012]
 3. Submit an electronic report within 15 days following the end of each month totaling NO_x emissions from all major NO_x sources during the month. [2012]
 4. For those facilities with existing CEMS and fuel meters as of October 15, 1993, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect until the CEMS is certified pursuant to Rule 2011 and/or Rule 2012, as applicable. [2012]
- B. The Operator of a NO_x Large Source, as defined in Rule 2012, shall:
- Not Applicable
- C. The Operator of a NO_x Process Unit, as defined in Rule 2012, shall:
1. Electronically report the calculated quarterly NO_x emissions for each NO_x process unit. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. [2012]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
System 1 : GAS TURBINES, POWER GENERATION					
GAS TURBINE, UNIT NO.1, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, 904 MMBTU/HR AT 45 DEGREES F, WITH WATER INJECTION WITH A/N:	D1	C3	NOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407,4-2-1982] ; CO: 6 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988] NOX: 123.46 LBS/MMSCF (1) [RULE 2012,5-6-2005] ; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988;RULE 2005,5-6-2005] NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006] ; NOX: 10.29 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] NOX: 0.08 LBS/MEGAWATT-HOUR NATURAL GAS (5) [RULE 1309.1,5-3-2002;RULE 1309.1,8-3-2007] ; PM10: 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475,10-8-1976]	A63.1, A99.1, A99.2, A99.3, A99.4, A195.1, A195.2, A195.3, A327.1, C1.1, C1.4, D12.1, D12.7, D29.1, D29.2, D29.3, D29.4, D82.1, D82.2, E193.1, E193.3, E193.4, E193.5, 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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
GENERATOR, 104 MW				<p><i>RULE 475,8-7-1978</i> ; PM10: 11 LBS/HR NATURAL GAS (5A) [<i>RULE 475,10-8-1976;RULE 475,8-7-1978</i>] ; PM10: 0.1 GRAINS/SCF NATURAL GAS (5B) [<i>RULE 409,8-7-1981</i>]</p> <p>PM10: 0.06 LBS/MEGAWATT-HOUR (5C) [<i>RULE 1309.1,5-3-2002;RULE 1309.1,8-3-2007</i>] ; SO2: (9) [40CFR 72 - Acid Rain Provisions,11-24-1997]</p> <p>SOX: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006] ; VOC: 2 PPMV NATURAL GAS (4) [R<i>ULE 1303(a)(1)-BACT,5-10-1996</i>] <i>RULE 1303(a)(1)-BACT,12-6-2002</i>]</p>	
CO OXIDATION CATALYST, NO.1, ENGLEHARD CAMET, WITH 72 CUBIC FEET OF TOTAL CATALYST VOLUME A/N:	C3	D1 C4			

- * (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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
SELECTIVE CATALYTIC REDUCTION, NO. 1, HALDOR-TOPSOE DNX-920, 718 CU.FT.; WIDTH: 20 FT 3 IN; HEIGHT: 28 FT 8 IN; LENGTH: 1 FT 8 IN WITH A/N: AMMONIA INJECTION, GRID	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
STACK, NO.1, HEIGHT: 90 FT; DIAMETER: 13 FT 6 IN A/N:	S6	C4			
GAS TURBINE, UNIT NO.2, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, 904 MMBTU/HR AT 45 DEGREES F, WITH WATER INJECTION WITH A/N:	D7	C9	SOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407,4-2-1982] ; CO: 6 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988] NOX: 123.46 LBS/MMSCF (1) [RULE 2012,5-6-2005] ; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988;RULE 2005,5-6-2005] NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006] ; NOX: 10.29 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005]	A63.1, A99.1, A99.2, A99.3, A99.4, A195.1, A195.2, A195.3, A327.1, C1.1, C1.4, D12.1, D12.7, D29.1, D29.2, D29.3, D29.4, D82.1, D82.2, E193.1, E193.3, E193.4, E193.5, 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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
GENERATOR, 104 MW				NOX: 0.08 LBS/MEGAWATT-HOUR NATURAL GAS (5) [RULE 1309.1, 8-3-2007] ; PM10: 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475, 10-8-1976 RULE 475, 8-7-1978] ; PM10: 11 LBS/HR NATURAL GAS (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978] ; PM10: 0.1 GRAINS/SCF NATURAL GAS (5B) [RULE 409, 8-7-1981] PM10: 0.06 LBS/MEGAWATT-HOUR (5C) [RULE 1309.1, 8-3-2002; RULE 1309.1, 8-3-2007] ; 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 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

** Refers to Section E and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
CO OXIDATION CATALYST, NO.2, ENGLEHARD CAMET, WITH 72 CUBIC FEET OF TOTAL CATALYST VOLUME A/N:	C9	D7 C10			
SELECTIVE CATALYTIC REDUCTION, NO. 2, HALDOR-TOPSOE DNX-920, 718 CU.FT.; WIDTH: 20 FT 3 IN; HEIGHT: 28 FT 8 IN; LENGTH: 1 FT 8 IN WITH A/N: AMMONIA INJECTION, GRID	C10	C9 S12		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.2, HEIGHT: 90 FT; DIAMETER: 13 FT 6 IN A/N:	S12	C10			
GAS TURBINE, UNIT NO.3, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, 904 MMBTU/HR AT 45 DEGREES F, WITH WATER INJECTION WITH A/N:	D13	C15	NOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 409,8-7-1981] ; CO: 6 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988] NOX: 123.46 LBS/MMSCF (1) [RULE 2012,5-6-2005] ; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988;RULE 2005,5-6-2005]	A63.1, A99.1, A99.2, A99.3, A99.4, A195.1, A195.2, A195.3, A327.1, C1.1, C1.4, D12.1, D12.7, D29.1, D29.2, D29.3, D29.4, D82.1, D82.2, E193.1, E193.3, E193.4, E193.5, 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

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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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
				NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006] ; NOX: 10.29 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] NOX: 0.08 LBS/MEGAWATT-HOUR NATURAL GAS (5) [RULE 1309.1,5-3-2002;RULE 1309.1,8-3-2007] ; PM10: 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475,10-8-1976 RULE 475,8-7-1978] ; PM10: 11 LBS/HR NATURAL GAS (5A) [RULE 475,10-8-1976;RULE 475,8-7-1978] ; PM10: 0.1 GRAINS/SCF NATURAL GAS (5B) [RULE 409,8-7-1981] PM10: 0.06 LBS/MEGAWATT-HOUR NATURAL GAS (5C) [RULE 1309.1,5-3-2002;RULE 1309.1,8-3-2007] ; 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	

- * (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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
GENERATOR, 104 MW				RULE 1303(a)(1)-BACT,12-6-2002]	
CO OXIDATION CATALYST, NO.3, ENGLEHARD CAMET, WITH 72 CUBIC FEET OF TOTAL CATALYST VOLUME A/N:	C15	D13 C16			
SELECTIVE CATALYTIC REDUCTION, NO. 3, HALDOR-TOPSOE DNX-920, 718 CU.FT.; WIDTH: 20 FT 3 IN; HEIGHT: 28 FT 8 IN; LENGTH: 1 FT 8 IN WITH A/N: AMMONIA INJECTION, GRID	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
STACK, NO.3, HEIGHT: 90 FT; DIAMETER: 13 FT 6 IN A/N:	S18	C16			
GAS TURBINE, UNIT NO.4, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, 904 MMBTU/HR AT 45 DEGREES F, WITH WATER INJECTION WITH A/N:	D19	C21	NOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407,4-2-1982] ; CO: 6 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988]	A63.1, A99.1, A99.2, A99.3, A99.4, A195.1, A195.2, A195.3, A327.1, C1.1, C1.4, D12.1, D12.7,

- * (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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
				NOX: 10.29 LBS/MMSCF (1A) [RULE 2012,5-6-2005] ; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988;RULE 2005,5-6-2005] NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006] ; NOX: 123.46 LBS/MMSCF (1) [RULE 2012,5-6-2005] ; NOX: 0.08 LBS/MEGAWATT-HOUR NATURAL GAS (5) [RULE 1309.1,5-3-2002 RULE 1309.1,8-3-2007] ; PM10: 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475,10-8-1976;RULE 475,8-7-1978] ; PM10: 11 LBS/HR NATURAL GAS (5A) [RULE 475,10-8-1976 RULE 475,8-7-1978] ; PM10: 0.1 GRAINS/SCF NATURAL GAS (5B) [RULE 409,8-7-1981] ; PM10: 0.06 LBS/MEGAWATT-HOUR NATURAL GAS (5C) [RULE 1309.1,5-3-2002	D29.1, D29.2, D29.3, D29.4, D82.1, D82.2, E193.1, E193.3, E193.4, E193.5, 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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
GENERATOR, 104 MW				<i>RULE 1309.1, 8-3-2007</i> ; SO ₂ : (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]	
CO OXIDATION CATALYST, NO.4, ENGLEHARD CAMEL, WITH 72 CUBIC FEET OF TOTAL CATALYST VOLUME A/N:	C21	D19 C22			
SELECTIVE CATALYTIC REDUCTION, NO. 4, HALDOR-TOPSOE DNX-920, 718 CU.FT.; WIDTH: 20 FT 3 IN; HEIGHT: 28 FT 8 IN; LENGTH: 1 FT 8 IN WITH A/N: AMMONIA INJECTION, GRID	C22	C21 S24		NH ₃ : 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.4, HEIGHT: 90 FT; DIAMETER: 13 FT 6 IN A/N:	S24	C22			

- * (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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
GAS TURBINE, UNIT NO.5, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, SIMPLE CYCLE, 904 MMBTU/HR AT 45 DEGREES F, WITH WATER INJECTION WITH A/N:	D25	C27	NOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 409,8-7-1981] ; CO: 6 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988] NOX: 123.46 LBS/MMSCF (1) [RULE 2012,5-6-2005] ; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988;RULE 2005,5-6-2005] NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006] ; NOX: 10.29 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] NOX: 0.08 LBS/MEGAWATT-HOUR NATURAL GAS (5) [RULE 1309.1,5-3-2002;RULE 1309.1,8-3-2007] ; PM10: 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475,10-8-1976]	A63.1, A99.1, A99.2, A99.3, A99.4, A195.1, A195.2, A195.3, A327.1, C1.1, C1.4, D12.1, D12.7, D29.1, D29.2, D29.3, D29.4, D82.1, D82.2, E193.1, E193.3, E193.4, E193.5, 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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
GENERATOR, 104 MW				<p><i>RULE 475,8-7-1978] ; PM10: 11 LBS/HR NATURAL GAS (5A) [RULE 475,10-8-1976;RULE 475,8-7-1978] ; PM10: 0.1 GRAINS/SCF NATURAL GAS (5B) [RULE 409,8-7-1981]</i></p> <p>PM10: 0.06 LBS/MEGAWATT-HOUR (5C) [RULE 1309.1,5-3-2002;RULE 1309.1,8-3-2007] ; SO2: (9) [40CFR 72 - Acid Rain Provisions,11-24-1997]</p> <p>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</p> <p><i>RULE 1303(a)(1)-BACT,12-6-2002]</i></p>	
CO OXIDATION CATALYST, NO.5, ENGLEHARD CAMET, WITH 72 CUBIC FEET OF TOTAL CATALYST VOLUME A/N:	C27	D25 C28			

- * (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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
SELECTIVE CATALYTIC REDUCTION, NO. 5, HALDOR-TOPSOE DNX-920, 718 CU.FT.; WIDTH: 20 FT 3 IN; HEIGHT: 28 FT 8 IN; LENGTH: 1 FT 8 IN WITH A/N: AMMONIA INJECTION, GRID	C28	C27 S30		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.5, HEIGHT: 90 FT; DIAMETER: 13 FT 6 IN A/N:	S30	C28			
System 2 : EMERGENCY FIRE PUMP					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, LEAN BURN, DIESEL FUEL, CLARKE, MODEL JW6H-UF50, WITH AFTERCOOLER, TURBOCHARGER, 340 BHP A/N:	D34		NOX: PROCESS UNIT**	CO: 0.45 GRAM/BHP-HR DIESEL (4) [RULE 1703 - PSD Analysis,10-7-1988] ; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6-2005] NOX + ROG: 4.65 GRAM/BHP-HR DIESEL (4) [RULE 1703 - PSD Analysis,10-7-1988;RULE 2005,5-6-2005] ; PM10: 0.09 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT,5-10-1996]	B61.1, C1.3, D12.5, D12.6, E193.1, E193.2, I296.2, 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.)
(10) See Section J for NESHAP/MACT requirements

** Refer to Section E and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this unit.

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 * And Requirements	Conditions
Process 1 : INTERNAL COMBUSTION					
				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; RULE 1703 - PSD Analysis, 10-7-1988]	
Process 2 : INORGANIC CHEMICAL STORAGE					
STORAGE TANK, FIXED ROOF, TK-1, AMMONIA, 19 PERCENT AQUEOUS AMMONIA, WITH PRV SETTING AT 25 PSIG, 16000 GALS; DIAMETER: 12 FT; HEIGHT: 12 FT A/N:	D31				C157.1, E144.1, E193.1

- * (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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
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C3	2	1	1
C4	3	1	1
S6	3	1	1
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C10	5	1	1
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C15	7	1	1
C16	7	1	1
S18	7	1	1
D19	7	1	1
C21	9	1	1
C22	9	1	1
S24	9	1	1
D25	10	1	1
C27	11	1	1
C28	12	1	1
S30	12	1	1
D31	13	2	0
D34	12	1	2

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

FACILITY CONDITIONS

- F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:
- (a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or
 - (b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

DEVICE CONDITIONS

A. Emission Limits

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
PM10	Less than or equal to 2,778 LBS IN ANY ONE MONTH
CO	Less than or equal to 6,532 LBS IN ANY ONE MONTH
SOX	Less than or equal to 281 LBS IN ANY ONE MONTH
VOC	Less than or equal to 887 LBS IN ANY ONE MONTH

The operator shall calculate the monthly emissions for VOC, PM10, and SOx using the equation below and the following emission factors: VOC: 2.00 lb/mmcf; PM10: 6.93 lb/mmcf; and SOx: 0.71 lb/mmcf.

Monthly Emissions, lb/month = X (EF),

Where X = monthly fuel usage, mmscf/month and EF = emission factor indicated above

Compliance with the CO emission limit shall be verified through valid CEMS data

The operator shall calculate the emission limit(s) for the purpose of determining compliance with the monthly CO limit in the absence of valid CEMS data by using the above equation and the following emission factor(s):

(A) During the commissioning period and prior to CO catalyst installation - 125.87 lbs CO mmcf

(B) After installation of the CO catalyst but prior to CO CEMS certification testing - 18.46 lbs CO/mmcf. The emission rate shall be recalculated in accordance with Condition D82.1 if the approved CEMS certification test resulted in emission concentrations higher than 6 ppmv

(C) After CO CEMS certification testing - 18.46 lbs CO/mmcf. After CO CEMS certification test is approved by AQMD, the emissions monitored by the CEMS and calculated in accordance with Condition 82.1 shall be used to calculate emissions

For the purposes of this condition, the limit(s) shall be based on the emissions from a single turbine. During commissioning, the CO emissions shall not exceed 7,441 lbs in any one month. During commissioning, the VOC emissions shall not exceed 904 lbs in any one month.

The operator shall provide the AQMD with written notification of the date of initial CO catalyst use within seven (7) days of the event.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- A99.1 The 2.5 PPM NOX emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 134 hours. Start-up time shall not exceed 60 minutes for each start-up. Shutdown periods shall not exceed 10 minutes for each shutdown. The turbine shall be limited to maximum of 350 start-ups/year. Written records of commissioning, start-ups, and shutdowns shall be maintained and made available upon request from the Executive Officer.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

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

- A99.2 The 6.0 PPM CO emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 134 hours. Start-up time shall exceed 60 minutes for each start-up. Shutdown periods shall not exceed 10 minutes for each shutdown. The turbine shall be limited to maximum of 350 start-ups/year. Written records of commissioning, start-ups, and shutdowns shall be maintained and made available upon request from the Executive Officer.

[RULE 1703 - PSD Analysis, 10-7-1988]

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

- A99.3 The 123.46 LBS/MMSCF NOX emission limit(s) shall only apply during the interim reporting period during initial turbine commissioning to report RECLAIM emissions. The interim reporting period shall not exceed 12 months from entry into RECLAIM.

[RULE 2012, 5-6-2005]

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

- A99.4 The 10.86 LBS/MMSCF NOX emission limit(s) shall only apply during the interim reporting period after initial turbine commissioning to report RECLAIM emissions. The interim reporting period shall not exceed 12 months from entry into RECLAIM.

[RULE 2012, 5-6-2005]

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A195.1 The 6.0 PPMV CO emission limit(s) is averaged over 60 minutes at 15% O₂, dry.

[RULE 1703 - PSD Analysis, 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 - PSD Analysis, 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; RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

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 5.0 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:.

$$\text{NH}_3 \text{ (ppmv)} = [a \cdot b \cdot c / 1\text{EE}+06] \cdot 1\text{EE}+06/b; \text{ where}$$

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 NO_x across the SCR (ppmvd at 15% O₂)

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

The NO_x 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 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 : 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]

B. Material/Fuel Type Limits

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

B61.1 The operator shall only use diesel fuel containing the following specified compounds:

Compound	Range	ppm by weight
Sulfur	less than or equal to	15

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D34]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the fuel usage to no more than 393 MM cubic feet in any one calendar month.

For the purpose of this condition, fuel usage shall be defined as the total natural gas usage of a single turbine.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

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

C1.3 The operator shall limit the operating time to no more than 199.99 hour(s) in any one year.

For the purpose of this condition, the operating time is inclusive of time allotted for maintenance and testing.

[RULE 1110.2, 6-3-2005; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 2012, 5-6-2005]

[Devices subject to this condition : D34]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C1.4 The operator shall limit the operating time to no more than 4000 hour(s) in any one year.

For the purpose of this condition, operating time shall be defined as a period of twelve (12) consecutive months determined on a rolling basis with a new twelve month period beginning on the first day of each calendar month.

[RULE 1309.1, 5-3-2002; RULE 1309.1, 8-3-2007]

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

C157.1 The operator shall install and maintain a pressure relief valve with a minimum pressure set at 25 psig.

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

[Devices subject to this condition : D31]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage being supplied to the turbine.

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

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005]

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- D12.2 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia.

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.

The ammonia injection rate shall remain between 13.5 gallons per hour and 16.5 gallons per hour

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

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

- 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.

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.

The catalyst temperature range shall remain between 750 degrees F and 850 degrees F

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- D12.4 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches of water column.

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.

The pressure drop across the catalyst shall remain between 5 inches of water column and 7.6 inches of water column

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

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

- D12.5 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time 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.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 1470, 3-4-2005; RULE 2012, 5-6-2005]

[Devices subject to this condition : D34]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- 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.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 2012, 5-6-2005]

[Devices subject to this condition : D34]

- D12.7 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the turbine.

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

[RULE 1309.1, 5-3-2002; RULE 1309.1, 8-3-2007]

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
CO emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
SOX emissions	Approved District method	District-approved averaging time	Fuel sample
VOC emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment
PM10 emissions	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment
NH3 emissions	District method 207.1 and 5.3 or EPA method 17	1 hour	Outlet of the SCR serving this equipment

The test shall be conducted after AQMD approval of the source test protocol, but no later than 180 days after initial start-up. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the mass flow rates in lb/hr, fuel flow rate (CFH), the flue gas flow rate, and the turbine generating output in MW.

The test shall be conducted in accordance with AQMD approved test protocol. The protocol shall be submitted to the AQMD engineer no later than 45 days before the proposed test date and shall be approved by the AQMD before the test commences. The test protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

The test shall be conducted when this equipment is operating at maximum, average, and minimum loads.

The test shall be conducted for compliance verification of the BACT 2.0 ppmv limit.

For natural gas fired turbines only, VOC compliance shall be demonstrated as follows: a) Stack gas samples are extracted into Summa canisters maintaining a final canister pressure between 400-500 mmHg absolute, b) Pressurization of canisters is done with zero gas analyzed/certified to contain less than 0.05 ppmv total hydrocarbon as carbon, and c) Analysis of canisters are per EPA Method TO-12 (with preconcentration) and temperature of canisters when extracting samples for analysis is not below 70 deg F

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The use of this alternative method for VOC compliance determination does not mean that it is more accurate than AQMD Method 25.3, nor does it mean that it may be used in lieu of AQMD Method 25.3 without prior approval except for the determination of compliance with the VOC BACT level of 2.0 ppmv calculated as carbon for natural gas fired turbines

Because the VOC BACT level was set using data derived from various source test results, this alternate VOC compliance method provides a fair comparison and represents the best sampling and analysis technique for this purpose at this time. The test results shall be reported with two significant digits

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

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

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	District method 207.1 and 5.3 or EPA method 17	1 hour	Outlet of the SCR serving this equipment

The test shall be conducted and the results submitted to the District within 45 days after the test date. The AQMD shall be notified of the date and time of the test at least 7 days prior to the test.

The test shall be conducted at least quarterly during the first twelve months of operation and at least annually thereafter. The NOx concentration, as determined by the CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable, a test shall be conducted to determine the NOx emissions using District Method 100.1 measured over a 60 minute averaging time period.

The test shall be conducted to determine compliance with the Rule 1303 BACT concentration limit.

[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]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
SOX emissions	Approved District method	District-approved averaging time	Fuel sample
VOC emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment
PM10 emissions	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment

The test(s) shall be conducted at least once every three years.

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the test shall measure the fuel flow rate (CFH), the flue gas flow rate, and the turbine generating output in MW.

The test shall be conducted in accordance with AQMD approved test protocol. The protocol shall be submitted to the AQMD engineer no later than 45 days before the proposed test date and shall be approved by the AQMD before the test commences. The test protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

The test shall be conducted when this equipment is operating at maximum, average, and minimum loads.

The test shall be conducted for compliance verification of the BACT 2.0 ppmv limit.

For natural gas fired turbines only, VOC compliance shall be demonstrated as follows: a) Stack gas samples are extracted into Summa canisters maintaining a final canister pressure between 400-500 mmHg absolute, b) Pressurization of canisters is done with zero gas analyzed/certified to contain less than 0.05 ppmv total hydrocarbon as carbon, and c) Analysis of canisters are per EPA Method TO-12 (with preconcentration) and temperature of canisters when extracting samples for analysis is not below 70 deg F

The use of this alternative method for VOC compliance determination does not mean that it is more accurate than AQMD Method 25.3, nor does it mean that it may be used in lieu of AQMD Method 25.3 without prior approval except for the determination of compliance with the VOC BACT level of 2.0 ppmv calculated as carbon for natural gas fired turbines

Because the VOC BACT level was set using data derived from various source test results, this alternate VOC compliance method provides a fair comparison and represents the best sampling and analysis technique for this purpose at this time. The test results shall be reported with two significant digits

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D29.4 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
PM10 emissions	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment

The test shall be conducted after AQMD approval of the source test protocol, but no later than 180 days after initial start-up. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted at full load to demonstrate compliance with the 0.080 lb/MWhr NO_x and 0.060 lb/MWhr PM₁₀ requirements set forth in Rule 1309.1. If the actual measurement is within the accuracy of the devices used for electrical power measurement, the result will be acceptable.

The lb/MWhr emission rate of each electrical generating unit shall be determined by dividing (a) the lb/hr emission rate measured at the location and in accordance with the test method specified above, by (b) the adjusted gross electrical output of each electrical generating unit.

The adjusted gross electrical output of each electrical generating unit shall be determined by making the following adjustments to the measured gross electrical output:

- 1] Apply the manufacturer's standard correction factors to calculate gross electrical output at ISO conditions.
- 2] Apply the GE site-specific LMS100 power degradation curve to adjust measured gross electrical output, as corrected to ISO conditions, to undegraded electrical generating unit conditions as defined by the turbine manufacturer. The maximum power degradation adjustment shall not exceed 1 percent.

The test shall be conducted in accordance with AQMD approved test protocol. The protocol shall be submitted to the AQMD engineer no later than 45 days before the proposed test date and shall be approved by the AQMD before the test commences.

The test protocol shall include the proposed operating conditions of the electrical generating unit during the test, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

[RULE 1309.1, 5-3-2002; RULE 1309.1, 8-3-2007]

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS shall be installed and operated no later than 90 days after initial start-up of the turbine, and in accordance with approved AQMD Rule 218 CEMS plan application. The operator shall not install the CEMS prior to receiving initial approval from AQMD. Within two weeks of initial turbine start-up, the operator shall provide written notification to the District of the exact date of start-up.

The CEMS shall be installed and operated to measure CO concentrations over a 15 minute averaging time period.

The CEMS will convert the actual CO concentrations to mass emission rates (lb/hr) using the equation below and record the hourly emission rates on a continuous basis

CO Emission Rate, lb/hr = $K C_{co} F_d [20.9 / (20.9\% - \%O_2 d)] [(Q_g * HHV) / 106]$, where

$K = 7.267 \times 10^{-8}$ (lb/scf)/ppm

C_{co} = Average of four consecutive 15 min ave CO concentration, ppm

F_d = 8710 dscf/MMBTU natural gas

$\%O_2 d$ = Hourly ave % by volume O₂, dry corresponding to C_{co}

Q_g = Fuel gas usage during the hour, scf/hr

HHV = Gross high heating value of fuel gas, BTU/scf

[RULE 1703 - PSD Analysis, 10-7-1988]

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D82.2 The operator shall install and maintain a CEMS to measure the following parameters:

NOX concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS shall be installed and operating no later than 90 days after initial start-up of the turbine and shall comply with the requirements of Rule 2012. During the interim period between initial start-up and the provisional certification date of the CEMS, the operator shall comply with the monitoring requirements of Rule 2012(h)(2) and 2012(h)(3). Within two weeks of the turbine start-up date, the operator shall provide written notification to the District of the exact date of start-up.

The CEMS shall be installed and operating (for BACT purposes only) no later than 90 days after initial start-up of the turbine

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005; RULE 2012, 5-6-2005]

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

E. Equipment Operation/Construction Requirements

E144.1 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled.

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

[Devices subject to this condition : D31]

E179.1 For the purpose of the following condition number(s), continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour.

Condition Number D 12- 2

Condition Number D 12- 3

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

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

E179.2 For the purpose of the following condition number(s), continuously record shall be defined as measuring at least once every month and shall be calculated based upon the average of the continuous monitoring for that month.

Condition Number D 12- 4

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

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

E193.1 The operator shall upon completion of construction, operate and maintain this equipment according to the following specifications:

In accordance with all mitigation measures stipulated in the final California Energy Commission decision for the 05-AFC-2 project.

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D1, C4, D7, C10, D13, C16, D19, C22, D25, C28, D31, D34]

E193.2 The operator shall operate and maintain this equipment according to the following requirements:

This equipment shall only operate if utility electricity is not available

This equipment shall only be operated for the primary purpose of providing a backup source of power to drive an emergency fire pump

This equipment shall only be operated for maintenance and testing, not to exceed 50 hours in any one year

This equipment shall not be operated under a Demand Response Program (DRP)

An engine operating log shall be kept in writing, listing the date of operation, the elapsed time, in hours, and the reason for operation. The log shall be maintained for a minimum of 5 years and shall be made available to AQMD personnel upon request

[**RULE 1110.2, 6-3-2005; RULE 1470, 3-4-2005**]

[Devices subject to this condition : D34]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

E193.3 The operator shall operate and maintain this equipment according to the following requirements:

Devices D1, D7, D13, D19, and D25 shall be fully and legally operational within three years of issuance of the Permit to Construct

[RULE 1309.1, 5-3-2002; RULE 1309.1, 8-3-2007]

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

E193.4 The operator shall restrict the operation of this equipment as follows:

The total cumulative net electricity generated from devices D1, D7, D13, D19, and D25, and delivered to the grid shall not exceed 500 MW.

[RULE 1309.1, 5-3-2002; RULE 1309.1, 8-3-2007]

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

E193.5 The operator shall install this equipment according to the following requirements:

PM10 emission rates from this equipment shall not exceed 0.060 lb/MW-hr

NOx emission rates from this equipment shall not exceed 0.080 lb/MW-hr

Compliance with the PM10 and NOx emission rates shall be demonstrated once over the life of the project in accordance with condition D29.4

[RULE 1309.1, 5-3-2002; RULE 1309.1, 8-3-2007]

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

H. Applicable Rules

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
NOX	40CFR60, SUBPART	KKKK
SOX	40CFR60, SUBPART	KKKK

[40CFR 60 Subpart KKKK, 7-6-2006]

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

I. Administrative

I296.1 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

To comply with this condition, the operator shall prior to the first compliance year hold a minimum NOx RTCs of 38,664 lbs/year. This condition shall apply during the first 12 months of operation, commencing with the initial operation of the gas turbines.

To comply with this condition, the operator shall, prior to the beginning of all years subsequent to the first compliance year, hold a minimum NOx RTCs of 30,222 lb/year of NOx RTCs for operation of the gas turbine. In accordance with Rule 2005(f), unused RTCs may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the first compliance year.

[RULE 2005, 5-6-2005]

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- I296.2 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

To comply with this condition, the operator shall prior to the first compliance year hold a minimum NO_x RTCs of 1,851lbs/year.

In accordance with Rule 2005(f), unused RTCs may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the first compliance year.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D34]

K. Record Keeping/Reporting

- K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

Emission data shall be expressed in terms of concentration (ppmv) corrected to 15 percent oxygen (dry basis), mass rate (lbs/hr), and lbs/MM Cubic Feet. In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per DSCF.

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

All moisture concentration shall be expressed in terms of percent corrected to 15 percent oxygen.

Source test results shall also include the oxygen levels in the exhaust, fuel flow rate (CFH), the flue gas temperature, and the generator power output (MW) under which the test was conducted.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

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

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Natural gas fuel use after CEMS certification

Natural gas fuel use during the commissioning period

Natural gas fuel use after the commissioning period and prior to CEMS certification

[RULE 2012, 5-6-2005]

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

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Date of operation, the elapsed time, in hours, and the reason for operation

[RULE 1110.2, 6-3-2005]

[Devices subject to this condition : D34]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules.

NONE

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.

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SECTION J: AIR TOXICS

NOT APPLICABLE

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under Section 129(e) of the Clean Air Act, this permit shall expire five years from the date that the initial Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:

(A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.

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SECTION K: TITLE V Administration

- (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:

- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
- (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:

- (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
- (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

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11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]
12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]
14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
 - (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after

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commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

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SECTION K: TITLE V Administration

EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for non-compliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
 - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - (B) The operator complies with the breakdown provisions of Rule 430 - Breakdown Provisions, or subdivision (i) of Rule 2004 - Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

¹ "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

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RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:
- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
 - (B) The date(s) analyses were performed;
 - (C) The company or entity that performed the analyses;
 - (D) The analytical techniques or methods used;
 - (E) The results of such analyses; and
 - (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]
20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]
21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:
- (A) Breakdowns shall be reported as required by Rule 430 - Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.
 - (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.

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- (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
 - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;
 - (B) The compliance status during the reporting period;
 - (C) Whether compliance was continuous or intermittent;
 - (D) The method(s) used to determine compliance over the reporting period and currently, and
 - (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn: Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

SECTION K: TITLE V Administration

PERIODIC MONITORING

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the Title V application file. [3004(a)(4)]

**FACILITY PERMIT TO OPERATE
WALNUT CREEK ENERGY PARK**

**APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN
PERMIT PURSUANT TO RULE 219**

NONE

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-8-1996]

- (1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, or manufacture, blend, or repackage such a coating for use within the District.
- (2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

TABLE OF STANDARDS

VOC LIMITS

**Grams of VOC Per Liter of Coating,
Less Water And Less Exempt Compounds**

COATING	Limit*	Effective Date of Adoption	Effective 1/1/1998	Effective 1/1/1999	Effective 7/1/2001	Effective 1/1/2005	Effective 7/1/2008
Bond Breakers	350						
Clear Wood Finishes							
Varnish	350						
Sanding Sealers	350						
Lacquer	680		550			275	
Concrete-Curing Compounds	350						
Dry-Fog Coatings	400						
Fire-proofing Exterior Coatings	350	450		350			
Fire-Retardant Coatings							
Clear	650						
Pigmented	350						
Flats	250				100		50
Graphic Arts (Sign) Coatings	500						
Industrial Maintenance							

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-8-1996]

Primers and Topcoats						
Alkyds	420					
Catalyzed Epoxy	420					
Bituminous Coatings	420					
Materials						
Inorganic Polymers	420					
Vinyl Chloride Polymers	420					
Chlorinated Rubber	420					
Acrylic Polymers	420					
Urethane Polymers	420					
Silicones	420					
Unique Vehicles	420					
Japans/Faux Finishing	350	700		350		
Coatings						
Magnesite Cement Coatings	600			450		
Mastic Coatings	300					
Metallic Pigmented Coatings	500					
Multi-Color Coatings	420		250			
Pigmented Lacquer	680		550		275	
Pre-Treatment Wash Primers	780					
Primers, Sealers, and	350					
Undercoaters						
Quick-Dry Enamels	400					
Roof Coatings	300					
Shellac						
Clear	730					
Pigmented	550					
Stains	350					
Swimming Pool Coatings						
Repair	650					
Other	340					
Traffic Coatings	250		150			
Waterproofing Sealers	400					
Wood Preservatives						
Below-Ground	350					
Other	350					

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards

**FACILITY PERMIT TO OPERATE
WALNUT CREEK ENERGY PARK**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 11-8-1996]**

TABLE OF STANDARDS (cont.)

VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 7-9-2004]

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 7-9-2004]

TABLE OF STANDARDS VOC LIMITS

**Grams of VOC Per Liter of Coating,
 Less Water and Less Exempt Compounds**

COATING	Limit *	Effective Date								
		1/1/98	1/1/99	7/1/01	1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Bond Breakers	350									
Clear Wood Finishes										
Varnish	350							275		
Sanding Sealers	350							275		
Lacquer	680	550					275			
Clear Brushing Lacquer	680						275			
Concrete-Curing Compounds	350									
Dry-Fog Coatings	400									
Fire-Proofing Exterior Coatings	450		350							
Fire-Retardant Coatings										
Clear	650									
Pigmented	350									
Flats	250			100						50
Floor Coatings	420				100			50		
Graphic Arts (Sign) Coatings	500									
Industrial Maintenance (IM) Coatings	420					250		100		
High Temperature IM Coatings**					420					
Zinc-Rich IM Primers	420				340			100		
Japans/Faux Finishing Coatings	700		350							
Magnesite Cement Coatings	600		450							
Mastic Coatings	300									
Metallic Pigmented Coatings	500									
Multi-Color Coatings	420	250								
Non-Flat Coatings	250				150			50		
Pigmented Lacquer	680	550					275			
Pre-Treatment Wash Primers	780				420					

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 7-9-2004]

COATING	Limit *	Effective Date								
		1/1/98	1/1/99	7/1/01	1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Primers, Sealers, and Undercoaters	350				200			100		
Quick-Dry Enamels	400				250			50		
Quick-Dry Primers, Sealers, and Undercoaters	350				200			100		
Recycled Coatings					250					
Roof Coatings	300				250		50			
Roof Coatings, Aluminum	500						100			
Roof Primers, Bituminous	350				350					
Rust Preventative Coatings	420				400			100		
Shellac										
Clear	730									
Pigmented	550									
Specialty Primers	350							100		
Stains	350				250				100	
Stains, Interior	250									
Swimming Pool Coatings										
Repair	650				340					
Other	340									
Traffic Coatings	250	150								
Waterproofing Sealers	400				250			100		
Waterproofing Concrete/Masonry Sealers	400							100		
Wood Preservatives										
Below-Ground	350									
Other	350									

- * The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards
** The National VOC Standard at 650 g/l is applicable until 1/1/2003

**FACILITY PERMIT TO OPERATE
WALNUT CREEK ENERGY PARK**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 7-9-2004]**

**TABLE OF STANDARDS (cont.)
VOC LIMITS**

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-7-2003]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)
(iii) Medical Devices & Pharmaceuticals	800 (6.7)
(B) Repair and Maintenance Cleaning	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)
(iii) Medical Devices & Pharmaceuticals	
(A) Tools, Equipment, & Machinery	800 (6.7)
(B) General Work Surfaces	600 (5.0)

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-7-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)
(D) Cleaning of Ink Application Equipment	
(i) General	25 (0.21)
(ii) Flexographic Printing	25 (0.21)
(iii) Gravure Printing	
(A) Publication	750 (6.3)
(B) Packaging	25 (0.21)
(iv) Lithographic or Letter Press Printing	
(A) Roller Wash – Step 1	600 (5.0)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)
(C) Removable Press Components	25 (0.21)
(v) Screen Printing	750 (6.3)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)

FACILITY PERMIT TO OPERATE

WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-7-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(vii) Specialty Flexographic Printing	600 (5.0)
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 5-6-2005]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
SOLVENT CLEANING ACTIVITY	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)		
(B) Repair and Maintenance Cleaning			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals			

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 5-6-2005]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Tools, Equipment, & Machinery	800 (6.7)		
(B) General Work Surfaces	600 (5.0)		
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)	25 (0.21)	
(D) Cleaning of Ink Application Equipment			
(i) General	25 (0.21)		
(ii) Flexographic Printing	25 (0.21)		
(iii) Gravure Printing			
(A) Publication	750 (6.3)	100 (0.83)	
(B) Packaging	25 (0.21)		
(iv) Lithographic or Letter Press Printing			
(A) Roller Wash – Step 1	600 (5.0)	500 (4.2)	100 (0.83)

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 5-6-2005]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(B) Roller Wash-Step 2, Blanket Wash, & On- Press Components	800 (6.7)	500 (4.2)	100 (0.83)
(C) Removable Press Components	25 (0.21)		
(v) Screen Printing	750 (6.3)	500 (4.2)	100 (0.83)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)	500 (4.2)	100 (0.83)
(vii) Specialty Flexographic Printing	600 (5.0)	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)		

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [40CFR 72 - Acid Rain Provisions 11-24-1997]

1. A Title V permit revision is not required for emission increases that are authorized by allowances acquired under the Acid Rain Program, provided that the increases do not trigger a Title V permit revision under any other applicable requirement. [70.6 (a)(4)(ii)]

Monitoring Requirements

2. The owners and operators and, to the extent applicable, the designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR Parts 74, 75, and 76. [40 CFR 72.50, 72.31, 72.9(b)(1)]
3. The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the acid rain emissions limitations and emissions reduction requirements for sulfur dioxide (SO₂) under the Acid Rain Program. [40 CFR 72.9(b)(2), 40 CFR 75.2]
4. The requirements of 40 CFR Parts 74 and 75 shall not affect the responsibility of the operator to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements and other provisions of this permit. [40 CFR 72.9(b)(3), 40 CFR 72.5]

Sulfur Dioxide Requirements

5. The owners and operators of each source and each affected unit at the source shall:
 - (A) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR Part 73, Section 73.34(C)) not less than the total annual emissions of SO₂ for the previous calendar year from the unit; and, [40 CFR 72.9(c)(i)],
 - (B) Comply with the applicable acid rain emissions limitations for SO₂. [40 CFR 72.9(c)(ii)]
6. Each ton of SO₂ emitted in excess of the acid rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act. [40 CFR 72.9(g)(7)]
7. SO₂ allowances shall be held in, deducted from, or transferred among allowance tracking system accounts in accordance with the Acid Rain Program. [40 CFR 72.9(g)(4)]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [40CFR 72 - Acid Rain Provisions 11-24-1997]

8. A SO₂ allowance shall not be deducted in order to comply with the requirements under paragraph 41(A) of the SO₂ requirements prior to the calendar year for which the allowance was allocated. [40 CFR 72.9(g)(5)]
9. An affected unit shall be subject to the SO₂ requirements under the Acid Rain Program as follows:[40 CFR 72.6(a)]
 - (A) Starting January 1, 2000, an affected unit under 40 CFR Part 72, Section 72.6(a)(2); or [40 CFR 72.6(a)(2)]
 - (B) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR Part 72, Section 72.6(a)(3). [40CFR 72.6(a)(3)]
10. An allowance allocated by the EPA administrator under the Acid Rain Program is a limited authorization to emit SO₂ in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the acid rain permit application, the acid rain permit, or the written exemption under 40 CFR Part 72, Sections 72.7, 72.8, or 72.14, and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization. [40 CFR 72.9 (c)(6)]
11. An allowance allocated by the EPA Administrator under the Acid Rain Program does not constitute a property right. [40 CFR 72.9(c)(7)]

Excess Emissions Requirements

12. The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77. [40 CFR 72.9(e)]
13. The owners and operators of an affected unit that has excess emissions in any calendar year shall: [40 CFR 72.9(e)(2)]
 - (A) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR Part 77; and[40 CFR 72.9(e)(2)(i)]
 - (B) Comply with the terms of an approved offset plan, as required by 40 CFR Part 77. [40 CFR 72.9(e)(2)(ii)]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [40CFR 72 - Acid Rain Provisions 11-24-1997]

Recordkeeping and Reporting Requirements

14. Unless otherwise provided, the owners and operators of the source and each affected unit at the source that are subject to the acid rain provisions under Title IV shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the EPA Administrator or the Executive Officer: [40 CFR 72.9(f)(1)]
 - (A) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such five year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative; [40 CFR 72.9(f)(1)(i)]
 - (B) All emissions monitoring information, in accordance with 40 CFR Part 75; [40 CFR 72.9(f)(1)(ii)]
 - (C) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and, [40 CFR 72.9(f)(1)(iii)]
 - (D) Copies of all documents used to complete an acid rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program. [40 CFR 72.9(f)(1)(iv)]
15. The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72 Subpart I and 40 CFR Part 75. [40 CFR 72.9(f)(2)]

Liability

16. Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR Part 72, Sections 72.7, 72.8, or 72.14, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to Section 113(c) of the Act. [40 CFR 72.9 (g)(1)]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [40CFR 72 - Acid Rain Provisions 11-24-1997]

17. Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to Section 113(c) of the Act and 18 U.S.C. 1001. [40 CFR 72.9 (g)(2)]
18. No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect. [40 CFR 72.9 (g)(3)]
19. Each affected source and each affected unit shall meet the requirements of the Acid Rain Program. [40 CFR 72.9 (g)(4)]
20. Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source. [40 CFR 72.9 (g)(5)]
21. Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR Part 72, Section 72.44 (Phase II repowering extension plans) and 40 CFR Part 76, Section 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR Part 75, Sections 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative. [40 CFR 72.9 (g)(6)]
22. Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act. [40 CFR 72.9 (g)(7)]

Effect on Other Authorities

23. No provision of the Acid Rain Program, an acid rain permit application, an acid rain permit, or a written exemption under 40 CFR Part 72, Sections 72.7, 72.8, or 72.14 shall be construed as: [40 CFR 72.9 (h)]

FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY PARK

APPENDIX B: RULE EMISSION LIMITS [40CFR 72 - Acid Rain Provisions 11-24-1997]

(A) Except as expressly provided in Title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of Title I of the Act relating to applicable National Ambient Air Quality Standards or state implementation plans; [40 CFR 72.9 (h)(1)]

(B) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act; [40 CFR 72.9 (h)(2)]

(C) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law; [40 CFR 72.9 (h)(3)]

(D) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or, [40 CFR 72.9 (h)(4)]

(E) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established. [40 CFR 72.9 (h)(5)]

REVIEWED BY:

NOTE: New emission limits and permit conditions since the issuance of the FDOC on February 16, 2007 are denoted by underlined additions and ~~striketrough~~ deletions.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION ENGINEERING ANALYSIS / EVALUATION	PAGES 18	PAGE 3
	APPLICATION NO. 450894 (Master File)	DATE 1-11-2008
	PROCESSED BY: Ken Coats	REVIEWED BY:

EQUIPMENT DESCRIPTION (continued)

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
Process 1: INTERNAL COMBUSTION					
System 1: GAS TURBINES, POWER GENERATION					
CO OXIDATION CATALYST NO. 2, ENGLEHARD CAMET, 72 CUBIC FEET OF TOTAL CATALYST VOLUME, WITH A/N: 450900	C9	D7 C10			
SELECTIVE CATALYTIC REDUCTION NO. 2, HALDOR-TOPSOE DNX-920, WITH 718 CUBIC FEET OF TOTAL CATALYST VOLUME, HEIGHT: 28 FT 8 IN; WIDTH: 20 FT 3 IN; DEPTH: 1 FT 8 IN; WITH NH3 INJECTION GRID A/N: 450900	C10	S12 C9		NH3: 5.0 PPMV (4) [Rule 1303(a)(1)-BACT]	A195.4 D12.2 D12.3 D12.4 E179.1 E179.2 E193.1
STACK NO. 2, DIAMETER: 13 FT 6 IN, HEIGHT: 90 FT A/N: 450895	S12	C10			
GAS TURBINE, UNIT NO. 3, NATURAL GAS, GENERAL ELECTRIC MODEL LMS100PA, SIMPLE CYCLE, 904 MMBTU/HR AT 45 DEGREES F WITH WATER INJECTION, WITH A/N 450896 GENERATOR, 104 MW	D13	C15	NOX: MAJOR SOURCE	CO: 6.0 PPMV NATURAL GAS (4) [Rule 1703 -PSD]; CO: 2000 PPMV (5) [Rule 407] NOX: 15 PPMV NATURAL GAS (8) [40CFR60 Subpart KKKK]; NOX: 123.46 LB/MMCF (1) [Rule 2012] NOX 10.29 LB/MMCF NATURAL GAS (1)[Rule 2012] NOX 2.5 PPMV NATURAL GAS (4)[Rule 2005-BACT; Rule 1703-PSD]; <u>NOX: 0.080 LB/MW-hr [Rule 1309.1]</u> VOC: 2.0 PPMV (4)[Rule 1303(a)(1)-BACT] <u>PM10: 0.01 GRAIN/DSCF (5A) [Rule 475]; PM10: 0.1 GRAIN/DSCF (5) [Rule 409]; PM10: 11 LB/HR (5B) [Rule 475]; PM10: 0.060 LB/MW-hr [Rule 1309.1]</u> SOX: 0.06 LB/MMCF (8) [40 CFR60 Subpart KKKK]; SO2: (9) Acid Rain Provisions	A63.1, A99.1, A99.2, A99.3, A99.4, A195.1, A195.2, A195.3, A327.1, C1.1, <u>C1.4</u> , D12.1, <u>D12.7</u> , D29.1, D29.2, D29.3, <u>D29.4</u> , D82.1, D82.2, E193.1, <u>E193.3</u> , <u>E193.4</u> , <u>E193.5</u> , H23.1, I296.1, K40.1, K67.1

NOTE: New emission limits and permit conditions since the issuance of the FDOC on February 16, 2007 are denoted by underlined additions and ~~striketrough~~ deletions.

REVIEWED BY:

NOTE: New emission limits and permit conditions since the issuance of the FDOC on February 16, 2007 are denoted by underlined additions and ~~strikes~~ deletions.

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A63.1, A99.1,
A99.2, A99.3,
A99.4, A195.1,
A195.2, A195.3,
A327.1, C1.1,
C1.4, D12.1,
D12.7, D29.1,
D29.2, D29.3,
D29.4, D82.1,
D82.2, E193.1,
E193.3, E193.4,
E193.5, H23.1,
I296.1, K40.1,
K67.1

NOTE: New emission limits and permit conditions since the issuance of the FDOC on February 16, 2007 are denoted by underlined additions and ~~strikes~~ deletions.

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Equipment Description (Continued)

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
Process 1: INTERNAL COMBUSTION					
System 1: GAS TURBINES, POWER GENERATION					
CO OXIDATION CATALYST NO. 5, ENGLEHARD CAMET, 72 CUBIC FEET OF TOTAL CATALYST VOLUME, WITH A/N: 450907	C27	D25 C28			
SELECTIVE CATALYTIC REDUCTION NO. 5, HALDOR-TOPSOE DNX-920, WITH 718 CUBIC FEET OF TOTAL CATALYST VOLUME, HEIGHT: 28 FT 8 IN; WIDTH: 20 FT 3 IN; DEPTH: 1 FT 8 IN; WITH NH3 INJECTION GRID A/N: 450907	C28	S30 C27		NH3: 5.0 PPMV (4) [Rule 1303(a)(1)-BACT]	A195.4 D12.2 D12.3 D12.4 E179.1 E179.2 E193.1
STACK NO. 5, DIAMETER: 13 FT 6 IN, HEIGHT: 90 FT A/N: 450898	S30	C28			
System 2: EMERGENCY FIRE PUMP					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, LEAN BURN, CLARKE, MODEL JW6H-UF50, 340 BHP WITH AFTERCOOLER, TURBOCHARGER, A/N: 450908	D34		NOX: PROCESS UNIT	NOX+NMHC: 4.65 GM/BHP-HR DIESEL RULE 2005; Rule 1703-PSD]; NOX: 469 LB/1000 GAL DIESEL (1) [RULE 2012] CO: 0.45 GM/BHP-HR DIESEL (4) [Rule 1703-PSD] PM10: 0.09 GM/BHP-HR DIESEL (4) [Rule 1303-BACT] SOX: 0.0055 GM/BHP-HR DIESEL (4) [RULE 1303-BACT; RULE 1703-PSD]	C1.3, B61.1, D12.5, D12.6, E193.1, E193.2, I296.2, K67.2
Process 2: INORGANIC CHEMICAL STORAGE					
STORAGE TANK, TK-1, FIXED ROOF, 19 PERCENT AQUEOUS AMMONIA, DIAMETER: 12'-0"; HEIGHT: 12'-0"; 16,000 GALLONS WITH PRV SET AT 25 PSIG WITH A/N: 451185	D31				C157.1, E144.1, E193.1

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Section D of the Facility Permit

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
Process 3: RULE 219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATING	E32			VOC: (9) [Rule 1113], Rule 1171	K67.3
RULE 219 EXEMPT EQUIPMENT, EXEMPT HAND WIPING OPERATIONS	E33			VOC: (9) [Rule 1171]	

BACKGROUND

WCEP submitted an application for certification (05-AFC-2) to the CEC on November 22, 2005 seeking certification for the new power plant. In addition to the CEC certification process, WCEP submitted applications to AQMD seeking Permits to Construct for the new power plant. The following table shows the corresponding application numbers (A/Ns):

Table 1 - Applications for Permits to Construct Submitted to AQMD

Application Number	Equipment Description
450894	Gas Turbine No. 1
450895	Gas Turbine No. 2
450896	Gas Turbine No. 3
450897	Gas Turbine No. 4
450898	Gas Turbine No. 5
450899	SCR/CO Catalyst for Turbine No. 1
450900	SCR/CO Catalyst for Turbine No. 2
450901	SCR/CO Catalyst for Turbine No. 3
450904	SCR/CO Catalyst for Turbine No. 4
450907	SCR/CO Catalyst for Turbine No. 5
450908	Emergency Fire Pump Engine
451185	Aqueous Ammonia Storage Tank
450854	Initial Title V Application

Each of the applications were submitted to the AQMD on November 30, 2005, except for the application for the NH₃ storage tank, which was submitted on December 7, 2005. AQMD deemed the applications complete on December 13, 2005.

The Preliminary Determination of Compliance (PDOC) was issued on October 31, 2006. The Public Notice was published in the Los Angeles Daily News, the San Gabriel Valley Tribune, and the Spanish newspaper La Opinión. The notice was published in all three newspapers on November 15, 2006. The original Public Notice, engineering analysis and draft permit were submitted to the applicant on November 15, 2006, with copies being forwarded to the CEC, EPA, ARB, Federal Land Manger, State Land Manager, SCAG, and the Manager of the City of Industry. The applicant distributed copies of the Public Notice to each address within

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a ¼ mile radius of the project on December 19, 2006, and provided proof of such distribution in a January 4, 2007 letter from EME to AQMD (see file) which described the method of determining the addresses within the ¼ mile radius and the proof of such mailing in the form of the USPS certification.

AQMD received a total of four (4) comment letters during the 30-day Public Notice period, one in which the applicant provided their comments to the draft analysis and permit. SCAG provided a letter in which they indicated that the proposed project did not warrant comments at this time. The two remaining comment letters were from Perrin Manufacturing Company and Hydrogen Ventures, Inc. EPA provided questions on the proposed Title V permit via e-mail in regards to the PM10 modeling under NSR rules, however, EPA elected not to make any formal comments regarding this issue. The FDOC was issued on February 16, 2007. Since the issuance of the FDOC, EPA has published in the Federal Register their final decision to approve AQMD's request to re-designate South Coast Air Basin from Non-Attainment to Attainment for Carbon Monoxide National Ambient Air Quality Standard. EPA has published their proposed decision in the Federal Register on February 24, 2007 and the comment period closed on March 16, 2007 with no comments received by EPA. Therefore, EPA is now granting the State's request to re-designate South Coast as attainment for CO effective June 11, 2007. Therefore, based on this decision, and pursuant to Rule 1303(b) there will be no offset required for emission increases for permits issued on or after June 11, 2007

On August 3, 2007 AQMD Governing Board amended Rule 1309.1 to include several new requirements for power plants. (These requirements are shown in greater detail in the "Rule 1309.1 Analysis" below).

On August 15, 2007, EPA and AQMD signed a Partial PSD Delegation Agreement, which is intended to delegate the authority and responsibility to AQMD for issuance of initial PSD permits and PSD permit modifications. (The PSD requirements for WCEP are shown in greater detail in the Regulation XVII PSD Analysis" below).

Since the requirements of Rule 1309.1 as amended on August 3, 2007 have changed significantly since WCEP originally requested access to the Priority Reserve, it has been determined by AQMD Management that a new 30-day Public Notice period pursuant to Rule 212(g) and Rule 3006(a) as well as a 45-day EPA review period are required prior to issuance of the permits to construct. In addition, prior to access to the Priority Reserve and issuance of the permits to construct, WCE must demonstrate to the satisfaction of the Executive Officer that it has met each of the following requirements:

Rule 1309.1(c)(2)

WCE pays a mitigation fee pursuant to subdivision (g)

Rule 1309.1(c)(3)

WCE conducts a due diligence effort [based on an ERC cost not to exceed the applicable mitigation fee for that pollutant at the location of the electrical generating facility (EGF) and as specified if subdivision (g) of Rule 1309.1] approved by the Executive Officer to secure available ERCs for requested Priority Reserve pollutants. Such efforts shall include securing available ERCs including those available through state emission banks or creating ERCs through SIP approved credit generation programs as available.

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Rule 1309.1(c)(4)

WCE enters into a long-term contract (at least one year) with the State of California to sell at least 50 percent of the portion of power which it has generated using the Priority Reserve Credits and provided the Executive Officer determines at the time of permitting and based on consultations with State power agencies that the State of California is both entering into such long term contracts and that a need for such contract exists at the time of permitting, if the facility is a net generator.

Rule 1309.1(d)(6)

WCE must use any ERCs held first, before access to the Priority Reserve is allowed.

Rule 1309.1(d)(14)

WCE secures final certification and approval for this project from the California Energy Commission, and has entered into a long term contract with Southern California Edison Company or the San Diego Gas and Electric Company or the State of California to provide electricity in Southern California.

Rule 1309.1 Analysis

Rule 1309.1(b)(5)(A)(i) defines three geographical zones within the jurisdiction of the South Coast Air Quality Management District based on the average PM_{2.5} concentration for years 2003 through 2005, as shown in Table 1 below. Also defined in Rule 1309.1 (b)(5)(A)(i) is the Environmental Justice Area (EJA).

Table 1 - Rule 1309.1 Zone Definitions

Zone No.	Rule 1309.1 Definition
1	Areas within the AQMD with an average PM _{2.5} concentration of less than 18 µg/m ³
2	Areas within the AQMD with an average PM _{2.5} concentration between 18 µg/m ³ and 20 µg/m ³
3	Areas within the AQMD with an average PM _{2.5} concentration of greater than 20 µg/m ³
EJA	Area of grid cells where 10% of population lives in poverty, and cancer risk > 1 x 10 ⁻³ ; or PM ₁₀ > 46 µg/m ³

Rule 1309.1(b)(5)(A)(iii) states that an in-District power plant located in Zone 2 or an in-District power plant with a maximum capacity of 500 MW or less, located in Zone 3 or EJA shall demonstrate compliance with the specific requirements of Rule 1309.1 (b)(5)(A)(ii)(a) through (h) in order to draw credits from the Priority Reserve. WCEP is located at 911 Bixby Drive, City of Industry, which is located in Zone 2 as defined in Rule 1309.1. Therefore WCEP is required to demonstrate compliance with all of the following specific requirements of Rule 1309.1(b)(5)(A)(ii). The specific requirements are summarized in Table 2 below:

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Table 2 - Rule 1309.1 Zone 2 Specific Requirements

Rule Subpart	Specific Requirements
Rule 1309.1(b)(5)(A)(iii)(a)	Facility cancer risk (MICR) $< 1 \times 10^{-6}$
Rule 1309.1(b)(5)(A)(iii)(b)	Facility acute hazard index (HIA) < 0.5 Facility chronic hazard index (HIC) < 0.5
Rule 1309.1(b)(5)(A)(iii)(c)	Facility Cancer burden (CB) < 0.1
Rule 1309.1(b)(5)(A)(iii)(d)	Unit PM_{10} emissions < 0.060 lb/MW-hr
Rule 1309.1(b)(5)(A)(iii)(e)	Unit NOx emissions < 0.080 lb/MW-hr
Rule 1309.1(b)(5)(A)(iii)(f)	Facility PM_{10} 24-hr impact $\leq 5 \mu g/m^3$
Rule 1309.1(b)(5)(A)(iii)(g)	Facility PM_{10} annual impact $\leq 0.75 \mu g/m^3$
Rule 1309.1(b)(5)(A)(iii)(h)	Each unit operates $\leq 4,000$ hours/year

Rule 1309.1(b)(5)(A)(iii)(a) – Maximum Individual Cancer Risk:

The commercial and residential MICRs for the facility must be less than 1×10^{-6} . As shown in Table 3 below, the commercial and residential MICRs for the facility as determined in the FDOC dated February 16, 2007 do not exceed 1×10^{-6} . Therefore, Walnut Creek will comply with Rule 1309.1(b)(5)(A)(ii)(a).

Table 3 - Commercial & Residential MICRs

Commercial MICR, $\mu g/m^3$	Residential MICR, $\mu g/m^3$	Maximum Allowable, $\mu g/m^3$	Comply (Yes/No)
1.06×10^{-9}	6.23×10^{-7}	1×10^{-6}	Yes

Rule 1309.1(b)(5)(A)(iii)(b) – Hazard Indices:

The commercial (c) and residential (r) hazard indices for the facility must be less than 0.5. As shown in Table 4 below the commercial and residential hazard indices for the facility as determined in the FDOC dated February 16, 2007 do not exceed 0.5. Therefore, Walnut Creek will comply with Rule 1309.1(b)(5)(A)(iii)(b).

Table 4 - Commercial & Residential Hazard Indices

HIA _c	HIA _r	HIC _c	HIC _r	Maximum Allowable	Comply (Yes/No)
0.000879	0.0635	0.000156	0.0124	0.5	Yes

Rule 1309.1(b)(5)(A)(iii)(c) – Cancer Burden:

The cancer burden for the facility must be less than 0.5. As shown in Table 5 below, the cancer burden for the facility as determined by the applicant will not exceed 0.1. Therefore, Walnut Creek will comply with Rule 1309.1(b)(5)(A)(iii)(c).

Table 5 - Cancer Burden

Cancer Burden	Maximum Allowable	Comply (Yes/No)
0.0125	0.1	Yes

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Rule 1309.1(b)(5)(A)(iii)(d) & (e) – NO_x and PM₁₀ Emissions:

The NO_x and PM₁₀ emissions from each gas turbine must not exceed 0.080 lb/MW-hr and 0.060 lb/MW-hr, respectively, as determined at ISO conditions of 14.7 psia, 60 degrees F, and 60% relative humidity. As shown in Table 6 below, the emissions from each of the five gas turbines will comply with Rule 1309.1(b)(5)(A)(iii)(d) and (e).

Table 6 – NO_x and PM₁₀ Emissions

Equipment	Pollutant	lb/MW-hr, at ISO conditions	Maximum Allowable lb/MW-hr	Comply (Yes/No)
Gas Turbine No. 1	NO _x	0.079	0.080	Yes
	PM ₁₀	0.058	0.060	Yes
Gas Turbine No. 2	NO _x	0.079	0.080	Yes
	PM ₁₀	0.058	0.060	Yes
Gas Turbine No. 3	NO _x	0.079	0.080	Yes
	PM ₁₀	0.058	0.060	Yes
Gas Turbine No. 4	NO _x	0.079	0.080	Yes
	PM ₁₀	0.058	0.060	Yes
Gas Turbine No. 5	NO _x	0.079	0.080	Yes
	PM ₁₀	0.058	0.060	Yes

GE provided a site specific degradation curve for the LMS100 CTG regarding performance losses due to the effects of aging and continued use. At ISO conditions prior to 1,000 hours of use, the turbines can comply with the NO_x and PM₁₀ lb/MW-hr emission limits of Rule 1309.1. As a result, the turbines are required by condition D29.4 to be tested prior to 1,000 hours of use because (1) the LMS100 degradation curve does not provide data beyond 1,000 hours of operation and (2) to limit the uncertainty involved in meeting the above emission limits.

Rule 1309.1(b)(5)(A)(iii)(f) and (g) – 24-hr and Annual PM₁₀ Impacts

The 24-hour and annual impacts of the total combined PM₁₀ emissions from the WCEP must be $\leq 5 \mu\text{g}/\text{m}^3$ and $\leq 0.75 \mu\text{g}/\text{m}^3$, respectively. As shown in Table 6 below, the applicant's analysis of the impacts from the facility was reviewed by AQMD modeling staff. Staff concluded in the memorandum dated October 26, 2007 from Ms. Jill Whynot to Mr. Mike Mills (see engineering file) that each of the 24 hour and annual impacts were appropriately estimated and appropriate procedures were used to derive these results. These values are presented below and will comply with the maximum allowable impacts of Rule 1309.1(b)(5)(A)(iii)(f) and (g) as shown in Table 7.

Table 7 – PM₁₀ 24-hour and Annual Impacts

Impact	Modeled Results $\mu\text{g}/\text{m}^3$	Maximum Allowable $\mu\text{g}/\text{m}^3$	Comply (Yes/No)
24-hr	2.60	5	Yes
Annual	0.56	0.75	Yes

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Rule 1309.1(b)(5)(A)(iii)(h) – Annual hours of operation

This rule requires that each of the simple cycle gas turbines be operated for no greater than 4,000 hours annually. Each gas turbine can operate up to 3,468 hours per year, based on the required offsets for each unit. Compliance will be verified through the individual CEMS units for each turbine. Table 8 below shows a summary of the required offsets for each unit and the costs associated with these offsets. Note that the required offsets for PM10 and SOx include the 1.2 offset factor.

Note that VOC offsets will not be obtained from the Priority Reserve, but will be offset with emission reduction credits, as shown in the original FDOC dated February 16, 2007.

Table 8 – Offsets Required for WCEP

PM10	30 Day Ave lb/day	ERC Offset Factor	Required Offsets (lb/day)
CTG No. 1	93	1.2	112
CTG No. 2	93	1.2	112
CTG No. 3	93	1.2	112
CTG No. 4	93	1.2	112
CTG No. 5	93	1.2	112
TOTALS			560
Unit Cost \$/lb/day			92,000
Total PM10 Cost \$			\$51,520,000
SOx	30 Day Ave lb/day	ERC Offset Factor	Required Offsets (lb/day)
CTG No. 1	9	1.2	11
CTG No. 2	9	1.2	11
CTG No. 3	9	1.2	11
CTG No. 4	9	1.2	11
CTG No. 5	9	1.2	11
TOTALS			55
Unit Cost \$/lb/day			34,400
Total SOx Cost \$			\$1,892,000
Total Cost \$			\$53,412,000

RULE 1309.1(c)(5)(B) – Renewable/Alternative Energy

This rule requires that in order to have access to the Priority Reserve, the applicant must demonstrate to the satisfaction of the Executive Officer that the renewable/alternative energy consisting of hydropower, wind, wave, solar, geothermal, fossil fuel, and fuel cell technologies are not viable options for the power to be generated at the site. Wave, geothermal and hydropower options are not viable based on the location of the proposed plant. Therefore, EME provided an analysis on October 15, 2007 (see file) in which wind, solar, and fuel cell technologies were considered.

Wind

EME considered a state-of-the-art wind turbine generator with a hub height of 260 feet and rotor diameter of 295, placing the height of the structure at slightly over 400 feet. The closest that wind turbine generators can be spaced safely is 800 feet apart. The WCE site is approximately 250 x 1500 feet, leaving room for a single 2 MW at the widest part of the parcel. According to EME, this location would place the turbine at an

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unsafe clearance from neighboring structures and existing SCE power lines. Therefore, wind technology at WCE site is not a viable option.

Solar

According to EME, a 400 MW solar-only powerplant located in Ivanpah has applied to the CEC for certification. Each 100 MW phase would require 850 acres of land which includes all ancillary and heat rejection equipment, and would thus produce 0.12 MW per acre. WCE's entire site is only 11 acres in size and would only support 1-2 MW of power through solar generation. Therefore, the WCE site is too small to accommodate solar generation.

Fuel Cell

EME stated in the October 15, 2007 letter that the only fuel cell available commercially today is the PureCell 200 built by UTC Power. The cost of the unit is approximately \$4,000/kW. The installed cost of the unit approaches \$1.1 million. At a rated output of 200 kW, this translates to about \$5,500/kW, installed. Other types of fuel cells are less developed. By contrast, a diesel generator costs \$800 to \$1,500 per kilowatt, and a natural gas turbine can be \$400 per kilowatt or less. According to EME the largest fuel cell claimed to be commercially available by its manufacturer is a 2.4 MW unit and are not available in sufficient volume. Based on the above, fuel cell technology is not a viable option.

RULE 1401 – NEW SOURCE REVIEW OF TOXIC AIR CONTAMINANTS

This rule specifies limits for maximum individual cancer risk (MICR), acute hazard index (HIA), chronic hazard index (HIC) and cancer burden (CB) from new permit units, relocations, or modifications to existing permits which emit toxic air contaminants. Rule 1401 requirements are summarized in Table 9 as follows:

Table 9 – Rule 1401 Requirements

Parameters and Specifications	Rule 1401 Requirements
MICR, without T-BACT	$\leq 1 \times 10^{-6}$
MICR, with T-BACT	$\leq 1 \times 10^{-5}$
Acute Hazard Index	≤ 1.0
Chronic Hazard Index	≤ 1.0
Cancer Burden	≤ 0.5 , if MICR $> 1 \times 10^{-6}$

The health risk assessment initially submitted with the original application package on November 27, 2005 addressed the Rule 1401 requirements on a facility-wide basis. However, Rule 1401 requires that each permit unit demonstrate compliance with the requirements in Table 8 above.

The applicant estimated the health risk assessment to address the impacts on a permit unit basis. The analysis included an estimate of the MICR for the nearest residential and commercial receptors, the acute and chronic hazard indices for each turbine.

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Note that for purposes of determining compliance with Rule 1401, there is no need to compute the cancer burden (CB) since the MICR is less than 1×10^{-6} . Table 10 below is a summary of the modeled health risk assessment results.

Table 10 - HRA results

	MICR _r	MICR _c	HIA _r	HIA _c	HIC _r	HIC _c
CTG No. 1	1.90×10^{-9}	2.12×10^{-10}	0.00021	0.000176	0.0000376	0.00000312
CTG No. 2	1.90×10^{-9}	2.12×10^{-10}	0.00021	0.000175	0.0000376	0.00000311
CTG No. 3	1.91×10^{-9}	2.12×10^{-10}	0.00021	0.000176	0.0000376	0.00000312
CTG No. 4	1.91×10^{-9}	2.12×10^{-10}	0.00023	0.000175	0.0000375	0.00000310
CTG No. 5	1.89×10^{-9}	2.14×10^{-10}	0.00020	0.000173	0.0000373	0.00000311

REGULATION XVII-Prevention of Significant Deterioration

~~The District Governing Board in its action on February 7, 2003, authorized the Executive Officer, upon withdrawal of the EPA PSD delegation, not to request any further delegation and to allow the EPA to terminate the AQMD's PSD delegation agreement and for EPA to become the permitting agency for PSD sources in the AQMD.~~

~~The Board determined that Regulation XVII is inactive upon EPA's withdrawal of delegation and shall remain inactive unless and until the EPA provides the AQMD with new delegation of authority to act either in full or on a Facility/Permit Specific basis. The delegation was rescinded on March 3, 2003 by EPA.~~

~~The District Governing Board in its April 1, 2005 meeting reaffirmed its previous action on February 7, 2003 to relinquish PSD analysis back to federal government and render Regulation XVII inactive unless the District receives new delegation in part or in full from the EPA.~~

~~Based on the Governing Board's actions, this rule is ineffective and no analysis is required for any pollutant subject to federal PSD requirement. The AQMD has sent the applicant a notification to contact the EPA directly for applicability of PSD to the proposed project. AQMD sent a letter to the applicant on December 19, 2006 and instructed the applicant to contact EPA directly regarding implementation of PSD.~~

Rule 1703(a)(2) requires each permit unit be constructed using BACT for each attainment air contaminant for which there is a net emission increase. The BACT requirements for CO as well as the applicant's BACT proposals for the CTGs and the internal combustion engine are listed below:

Equipment	AQMD BACT	Proposed BACT	Compliance (Y/N)
<u>LMS 100 CTGs</u>	<u>6.0 ppmvd at 15% O₂, 1-hour rolling average</u>	<u>6.0 ppmvd at 15% O₂, 1-hour rolling average</u>	<u>Yes</u>
Internal Combustion Engine	2.6 gm/BHP-hr	0.45 gm/BHP-hr	Yes

NOTE: New emission limits and permit conditions since the issuance of the FDOC on February 16, 2007 are denoted by underlined additions and ~~striketrough~~ deletions.

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As shown above, the equipment will comply with AQMD BACT requirements for major sources. The facility PTE is less than the major stationary source threshold of 250 tpy for each of the attainment pollutants in the South Coast Air Basin. Therefore air quality modeling provisions of Rule 1703(a)(3) are not applicable to this project.

This regulation applies to the preconstruction review of major stationary sources that emit attainment air contaminants. For a simple cycle power plant, the applicable major stationary source threshold in Regulation XVII is 250 tons per year or more of any pollutant regulated by the Clean Air Act. Table 11 below shows the potential to emit for WCEP.

Table 11 - WCEP Potential to Emit

	NOx	CO	SO2
Facility PTE (tpy)	97.71	145.72	5.16
Threshold (tpy)	250	250	250

The facility PTE is less than the major stationary source threshold of 250 tpy for each of the attainment pollutants in the South Coast Air Basin. Therefore, the provisions of Rule 1703(a)(3) are not applicable to this project

RECOMMENDATION

Issue Permit to Construct subject to the conditions in the original FDOC dated February 16, 2007 in addition to the following conditions:

C1.4 The operator shall limit the operating time to no more than 4,000 hours in any one year.

For the purposes of this condition, operating time shall be defined as a period of twelve (12) consecutive months determined on a rolling basis with a new twelve month period beginning on the first day of each calendar month.

[Rule 1309.1]

D12.7 The operator shall install and maintain a non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

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

[Rule 1309.1]

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

Pollutant to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District Method 100.1	1 hour	Outlet of the SCR
CO emissions	District Method 100.1	1 hour	Outlet of the SCR
SOX emissions	Approved District method	District approved averaging time	Fuel Sample
VOC emissions	Approved District method	1 hour	Outlet of the SCR
PM10 emissions	Approved District method	District approved averaging time	Outlet of the SCR
NH3 emissions	District method 207.1 and 5.3 or EPA method 17	1 hour	Outlet of the SCR

The test shall be conducted after AQMD approval of the source test protocol, but no later than 180 days after initial start-up. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the mass flow rates in lb/hr, fuel flow rate (CFH), the flue gas flow rate, and the turbine generating output in MW.

The test shall be conducted in accordance with AQMD approved test protocol. The protocol shall be submitted to the AQMD engineer no later than 45 days before the proposed test date and shall be approved by the AQMD before the test commences. The test protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

The test shall be conducted when this equipment is operating at maximum, average, and minimum loads.

The test shall be conducted for compliance verification of the BACT VOC 2.0 ppmv limit.

For natural gas fired turbines only, VOC compliance shall be demonstrated as follows: a) Stack gas samples are extracted into Summa canisters maintaining a final canister pressure between 400-500 mm Hg absolute, b) Pressurization of canisters are done with zero gas analyzed/certified to contain less than 0.05 ppmv total hydrocarbon as carbon, and c) Analysis of canisters are per EPA Method TO-12 (with pre concentration) and temperature of canisters when extracting samples for analysis is not below 70 deg F.

The use of this alternative method for VOC compliance determination does not mean that it is more accurate than AQMD Method 25.3, nor does it mean that it may be used in lieu of AQMD Method 25.3 without prior approval except for the determination of

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compliance with the VOC BACT level of 2.0 ppmv calculated as carbon for natural gas fired turbines.

Because the VOC BACT level was set using data derived from various source test results, this alternate VOC compliance method provides a fair comparison and represents the best sampling and analysis technique for this purpose at this time. The test results shall be reported with two significant digits.

[Rule 1703-PSD, Rule 1303(a)(1) - BACT, Rule 1303(b)(2) - Offset, Rule 2005]

D29.4 The operator shall conduct source test(s) for the pollutant(s) identified below.

<u>Pollutant to be tested</u>	<u>Required Test Method(s)</u>	<u>Averaging Time</u>	<u>Test Location</u>
<u>NOx</u>	<u>District Method 100.1</u>	<u>1 hour</u>	<u>Outlet of the SCR</u>
<u>PM10</u>	<u>Approved District method</u>	<u>District approved averaging time</u>	<u>Outlet of the SCR</u>

The test shall be conducted after District approval of the source test protocol, but no later than 180 days after initial start-up. District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted at full load to demonstrate compliance with the 0.080 lb/MW-hr NOx and 0.060 lb/MW-hr PM10 requirements set forth in Rule 1309.1. If the actual measurement is within the accuracy of the devices used for electrical power measurement, the result will be acceptable.

The lb/MW-hr emission rate of each electrical generating unit shall be determined by dividing (a) the lb/hr emission rate measured at the location and in accordance with the test method specified above, by (b) the adjusted gross electrical output of each electrical generating unit.

The adjusted gross electrical output of each electrical generating unit shall be determined by making the following adjustments to the measured gross electrical output:

- 1) Apply the manufacturer's standard correction factors to calculate gross electrical output at ISO conditions.
- 2) Apply the GE site-specific LMS100 power degradation curve to adjust measured gross electrical output, as corrected to ISO conditions, to undegraded electrical generating unit conditions as defined by the turbine manufacturer. The maximum power degradation adjustment shall not exceed 1 percent.

The test shall be conducted in accordance with District approved test protocol. The protocol shall be submitted to the District engineer no later than 45 days before the proposed test date and shall be approved by the District before the test commences.

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The test protocol shall include the proposed operating conditions of the electrical generating unit during the test, the correction and degradation factors and documentation of their validity, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

[Rule 1309.1]

E193.3 The operator shall operate and maintain this equipment according to the following requirements:

Devices D1, D7, D13, D19, and D25 shall be fully and legally operational within three years of issuance of the Permit to Construct

[Rule 1309.1]

E193.4 The operator shall restrict the operation of this equipment as follows:

The total cumulative net electricity generated from devices D1, D7, D13, D19, and D25, and delivered to the grid shall not exceed 500 MW.

[Rule 1309.1]

E193.5 The operator shall install this equipment according to the following requirements:

PM10 emission rates from this equipment shall not exceed 0.060 lb/MW-hr

NOx emission rates from this equipment shall not exceed 0.080 lb/MW-hr

Compliance with the PM10 and NOx emission rates shall be demonstrated once over the lifetime of the project in accordance with condition D29.4

[Rule 1309.1]