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October 5, 2006 GE/IEEC-0027

Ms. Connie Bruins
Compliance Project Manager
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512

RE: INLAND EMPIRE ENERGY CENTER PETITION TO AMEND CONDITIONS OF CERTIFICATION (01-AFC-017C)

Dear Ms. Bruins:

Pursuant to Section 1769 (Post Certification Amendments and Changes) of the California Energy Commission (CEC) Sitting Regulations, Inland Empire Energy Center, LLC (IEEC LLC) hereby submits the attached Petition to amend several air quality conditions of certification. These changes are being requested to make the air quality conditions of certification consistent with the current South Coast Air Quality Management District (SCAQMD) facility permit for the IEEC project. We are unaware of any opposition to these changes, and we request expedited review and approval by the Commission.

Please do not hesitate to contact me at (951) 928-6905 should you have any questions regarding this submittal.

Respectfully submitted,

John Gates
Commercial Manager

Attachment
cc: Brian Ray, GE
Craig Matis, GE
Ken Kohl, GE
Dana Petrin, Calpine
Gary Rubenstein, Sierra Research
CEC Dockets Office, Docket #01-AFC-17C
Li Chen, SCAQMD
John Yee, SCAQMD
Joseph Lapka, EPA Region IX
Laura Yannayon, EPA Region IX
Jenifer Morris, NJR

INLAND EMPIRE ENERGY CENTER
LICENSE AMENDMENT #5
01-AFC-17C

Submitted by

Inland Empire Energy Center, LLC
26226 Antelope Road
Romoland, CA 92585

September 22, 2006

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1.0 INTRODUCTION

1.1 Overview of Amendment

In December 2003, the California Energy Commission (CEC) approved the Inland Empire Energy Center Project (IEEC). The project is located in Romoland in southern Riverside County. Construction of IEEC began on August 5, 2005, and the project is expected to be available for commercial operation in June 2008.

In August 2005 the Commission approved the petition to change the configuration of the IEEC project (01-AFC-17C). As part of this approval the Commission imposed a number of air quality conditions on the project based on the South Coast Air Quality Management District's (SCAQMD's) Preliminary Determination of Compliance (DOC) in-effect at that time. Since that time, several changes have been made to the SCAQMD permit for the project. The purpose of the proposed amendment is to make the Commission air quality conditions of certification consistent with the current SCAQMD RECLAIM/Title V permit for the IEEC project.

1.2 Summary of Environmental Impacts

Section 1769(a)(1)(E) of the CEC Siting Regulations requires that an analysis be conducted to address any potential impacts the proposed revisions may have on the environment and proposed measures to mitigate significant adverse impacts. Section 1769(a)(1)(F) requires a discussion of the impact of proposed revisions on the facility's ability to comply with applicable laws, ordinances, regulations, and standards (LORS). Section 3.0 of this document discusses the potential impacts of the Amendment on the environment, as well as the consistency of the requested change with LORS. Section 3.0 concludes that there will be no significant adverse environmental impacts associated with this Amendment and that the project, as amended, will comply with applicable LORS.

1.3 Consistency of Amendment with License

Section 1769(a)(1)(D) of the CEC Siting Regulations requires a discussion of the Amendment's consistency with the LORS and whether the modification being sought is based on new information that changes or undermines the assumptions, rationale, findings, or other basis of the final decision. If the project is no longer consistent with the license, an explanation of why the modification should be permitted must be provided. The changes proposed herein are consistent with the project's CEC license and relevant LORS. These proposed changes do not undermine any basis for the CEC's licensing decision.

2.0 DESCRIPTION OF PROJECT AMENDMENT

Consistent with the California Energy Commission Siting Regulations Section 1769(a)(1)(A) and (B), this section includes a complete description of the proposed project modification as well as the necessity for the Amendment.

When the Commission approved the petition to change the configuration of the IEEC project in August 2005 (01-AFC-17C), the Commission imposed a number of air quality conditions on the project based on the SCAQMD's Preliminary Determination of Compliance (DOC). The public notice for the SCAQMD's Preliminary DOC was published on June 1, 2005. Following the close of the public comment period on the Preliminary DOC, on August 5, 2005 the SCAQMD issued the RECLAIM/Title V Facility Permit for the IEEC project. Several revisions to the permit have occurred since that time. 1) Based on an August 26, 2005 letter from Sierra Research on behalf of IEEC LLC, on October 21, 2005 the SCAQMD issued an administrative revision to the RECLAIM/Title V Facility Permit for the IEEC project. 2) As the result of a January 17, 2006 letter from Sierra Research on behalf of IEEC LLC requesting a minor modification of the Title V permit, on January 31, 2006 the SCAQMD issued a minor modification of the Title V Facility Permit. 3) The latest change to the SCAQMD permit for the IEEC project occurred as the result of an April 20, 2006 letter from IEEC LLC requesting a minor modification of the Title V permit. On June 6, 2006 the SCAQMD issued this minor modification of the Title V Facility Permit. The purpose of the proposed Amendment is to make the Commission air quality conditions of certification consistent with the current SCAQMD RECLAIM/Title V permit for the IEEC project.

2.1 Necessity of Proposed Amendment

Sections 1769(a)(1)(B) and (C) of the CEC Siting Regulations require a discussion of the necessity for the proposed revisions to the Inland Empire Energy Center Project and whether the revisions are based on information known by the petitioner during the certification proceeding.

As discussed above, the purpose of the proposed Amendment is to make the Commission air quality conditions of certification consistent with the current SCAQMD RECLAIM/Title V permit for the IEEC project. The proposed changes to the air quality conditions of certification are the result of changes to the SCAQMD's RECLAIM/Title V permit that occurred after the completion of IEEC's certification process.

In addition the project is seeking the deletion of the Visible Emission Evaluation requirement for the Air Quality Construction Mitigation Manager and Monitors. As advised by Commission air quality staff, this is consistent with projects currently being licensed by the Commission.

3.0 ENVIRONMENTAL ANALYSIS OF THE AMENDMENT

This section examines whether the project enhancement set forth in this Amendment may result in additional environmental impacts. An environmental analysis for the modification identified

in this Amendment is included below. The analysis concludes that there will be no significant adverse environmental impacts associated with this Amendment and that the project, as amended, will comply with all applicable LORS.

3.1 Air Quality

The following paragraphs discuss the effect on the Commission air quality conditions of certification associated with the various changes to the SCAQMD permit that occurred after the completion of IEEC's certification process. As shown below, with exception to the proposed changes to AQ-SC13 and AQ-18, none of the permit changes result in less stringent emissions limits, testing/monitoring requirements, and/or recordkeeping/reporting requirements. The proposed change to AQ-SC13 is an increase to the combined NOx limit during commissioning for the two gas turbines from 605.8 lbs/hr to 816 lbs/hr. Because a maximum NOx emission level for the two gas turbines of 816 lbs/hr (408 lbs/hr per gas turbine) was analyzed during the IEEC certification process, this change does not create a significant air quality impact. The proposed change to AQ-18 is an increase to the NOx limit during gas turbine startups from 125 to 408 lbs/hr and an increase in the CO limit during gas turbine startups from 50 to 95 lbs/hr. Since maximum NOx and CO emissions during gas turbine startups of 408 lbs/hr and 95 lbs/hr, respectively, were analyzed during the IEEC certification process, this change does not create a significant air quality impact. Consequently, the proposed Amendment will not create a significant air quality impact.

NSPS NOx Limit for Gas Turbines

Conditions Affected:

- Condition AQ-SC16
- AQ-SC16 Attachment Air Quality 1: Equipment Description for Units D1 and D2

Date of SCAQMD Permit Change: October 21, 2005 Administrative Changes to Facility Permit

Reason for Change

In June 27, 2005 and August 26, 2005 letters to the SCAQMD, IEEC LLC requested a change to the NOx NSPS permit limit for the gas turbines from 180 to 123 ppmv. This NOx limit change occurred as a result of recognizing the different NSPS calculations associated with a combined-cycle heat rate and a gas turbine-only heat rate. A gas turbine-only heat rate was used because the "affected facility" in the gas turbine NSPS (40 CFR 60 Subpart GG) is only the gas turbine portion of a combined cycle system.

NOx RTC Calculations

Conditions Affected:

- Conditions AQ-SC9, AQ-27, AQ-47

Date of SCAQMD Permit Change: August 5, 2005 Facility Permit

Reason for Change

In a June 27, 2005 letter to the SCAQMD, IEEC LLC requested a permit change to correct the amount of NOx RECLAIM credits required for the gas turbines and auxiliary boiler. Due to the use of a different method to calculate houtly emission levels, there were small differences between the District-calculated hourly NOx emissions in the May 2005 Determination of Compliance compared to the levels shown in the February 2005 permit application. While the NOx emission levels in the District evaluation were similar to the levels in the permit application, they were not identical, and these small differences were magnified when carried through to the annual RTC calculations.

CO Emission Factor – Gas Turbines

Conditions Affected:

- Condition AQ-13

Date of SCAQMD Permit Change: August 5, 2005 Facility Permit

Reason for Change

In a June 27, 2005 letter to the SCAQMD, IEEC LLC requested a permit change to add a CO emission factor that should be used during the period between the end of the commissioning period and prior to the certification of the CO CEMs.

PM_{10} Monthly Emission Limit and Emission Factor – Gas Turbines

Conditions Affected:

- Permit Condition AQ-13

- AQ-SC16 Attachment Air Quality 1: Equipment Description for Units D1 and D2

Date of SCAQMD Permit Change: June 6, 2006 Revised Facility Permit

Reason for Change

In an April 20, 2006 letter to the SCAQMD, IEEC LLC requested a decrease in the PM_{10} emission limit for the gas turbines from 10 to 7.5 lb/hr. This change was implemented due to a decrease in the predicted PM_{10} emission rate for the gas turbines. The requested decrease in hourly PM_{10} emission levels resulted in a corresponding decrease in the monthly PM_{10} permit limit from 7,440 to 5,580 lbs/month and a decrease in the PM_{10} emission factor from 3.91 to 2.93 lbs/MMscf.

Monthly VOC ERC Emission Limit – Auxiliary Boiler

Conditions Affected:

- Condition AQ-36

Date of SCAQMD Permit Change: August 5, 2005 Facility Permit

Reason for Change

In a June 27, 2005 letter to the SCAQMD, IEEC LLC requested a correction to an apparent typographical error regarding the VOC monthly ERC limit for the auxiliary boiler (so that the amount in the permit condition matches the calculated amount in Appendix C of the SCAQMD's May 13, 2005 District evaluation).

Gas Turbine Combustor Tuning Activities

Conditions Affected:

- Conditions AQ-18, AQ-22, AQ-23, AQ-24

Date of SCAQMD Permit Change: October 21, 2005 Administrative Changes to Facility Permit

Reason for Change

In June 27, 2005 and August 26, 2005 letters to the SCAQMD, due to elevated emissions during combustor tuning activities IEEC LLC requested that these activities be included into the permit conditions that address gas turbine startups and shutdowns.

Deviation from Gas Turbine NOx BACT Limit

Conditions Affected:

- Condition AQ-22

Date of SCAQMD Permit Change: August 5, 2005 Facility Permit

Reason for Change

In a June 27, 2005 letter to the SCAQMD, IEEC LLC requested a revision to this permit condition to clarify that the gas turbines will be equipped with inlet air chilling systems rather than fogging systems.

Auxiliary Boiler – Burner Rating

Conditions Affected:

- AQ-SC16 Attachment Air Quality 1: Equipment Description for Unit D3

Date of SCAQMD Permit Change: June 6, 2006 Revised Facility Permit

Reason for Change

During the processing of the June 6, 2006 Facility Permit revision, the SCAQMD requested and received updated information from IEEC LLC on the auxiliary boiler burner. Based on this information, the SCAQMD reduced the burner rating from 157 to 152.12 MMBtu/hr.

Auxiliary Boiler Fuel Use Limit

Conditions Affected:

- Permit Condition AQ-35

Date of SCAQMD Permit Change: August 5, 2005 Facility Permit

Reason for Change

In a June 27, 2005 letter to the SCAQMD, IEEC LLC requested that the annual fuel use limit be changed to a monthly limit. This permit change was requested because ERCs are based on worst-case monthly emissions rather than annual emissions. As discussed above for Permit Condition AQ-SC16, as part of the June 6, 2006 Facility Permit revision the auxiliary burner rating was reduced from 157 to 152.12 MMBtu/hr. The monthly auxiliary boiler fuel use limit was subsequently lowered from 30.17 to 29.24 MM cubic feet per month as part of the District's June 6, 2006 Facility Permit revision.

Aqueous Ammonia Storage Tanks

Conditions Affected:

- Permit Condition AQ-55

Date of SCAQMD Permit Change: August 5, 2005 Facility Permit

Reason for Change

In a June 27, 2005 letter to the SCAQMD, IEEC LLC requested a change to this permit condition to clarify that the relief valve pressure setting is a minimum rather than a maximum (or exact) limit.

Gas Turbine Source Testing

Conditions Affected:

- Permit Condition AQ-8

Date of SCAQMD Permit Change: October 21, 2005 Administrative Changes to Facility Permit

Reason for Change

In June 27, 2005 and August 26, 2005 letters to the SCAQMD, IEEC LLC requested a change to this permit condition to clarify that megawatt monitoring during the test is the power output for the entire system (gas turbine and steam turbine) rather than just that of the gas turbine. Since the S107H system is a common shaft design with a single

generator, it is impossible to directly measure the power output from only the gas turbine. In addition, consistent with other gas turbine projects permitted by the District, IEEC LLC requested that this condition be modified to clarify that the PM source tests should be performed only at maximum equipment load rather than at multiple loads. Performing triplicate 4- to 6-hour PM source tests at multiple loads would be time consuming, unnecessarily expensive, and would unnecessarily reduce plant output.

IEEC LLC also explained that since the IEEC project will be the first S107H installation, the lowest air emission compliant load will not be known until field testing and tuning is conducted. As such, IEEC LLC requested a permit change to make the lowest stack emissions compliance test load 50 percent or the minimum compliant load achieved.

As part of the District's June 6, 2006 Facility Permit revision, the District added language regarding the need to perform the source tests in triplicate. This language was added for clarification purposes.

Conditions Affected:

- Permit Condition AQ-9

Date of SCAQMD Permit Change: June 6, 2006 Revised Facility Permit

Reason for Change

As discussed above for Permit Condition AQ-8, the District added language regarding the need to perform the source tests in triplicate. This language was added for clarification purposes.

Auxiliary Boiler Source Testing

Conditions Affected:

- Permit Condition AQ-32

Date of SCAQMD Permit Change: August 5, 2005 Facility Permit

Reason for Change

In a June 27, 2005 letter to the SCAQMD, IEEC LLC requested that the requirement for SOx, VOC, and PM testing be deleted from the permit condition since the auxiliary

boiler is a relatively minor source of emissions at this facility. Similarly, and consistent with our proposed changes in prior conditions, IEEC LLC requested that the condition require testing only at maximum equipment load for CO and NOx. Finally, IEEC LLC requested that the condition be clarified to show that it applies only to the auxiliary boiler and not to the gas turbines.

NOx and CO CEMs Certification Test Reports

Conditions Affected:

- Permit Conditions AQ 15, AQ-16, AQ-38

Date of SCAQMD Permit Change: October 21, 2005 Administrative Changes to Facility Permit

Reason for Change

In June 27, 2005 and August 26, 2005 letters to the SCAQMD, IEEC LLC requested changes to the requirements to submit CEM certification test reports to the District. Included in these permit conditions is a requirement to submit the CEM certification test reports to the District at the conclusion of the commissioning period and prior to baseload commercial operation of the facility. IEEC LLC explained to the District that the timing contemplated by these conditions is unworkable. The CEMs certification testing will occur at the end of the commissioning period, and the 7-day drift test may extend beyond the end of the commissioning period. In addition, it can take up to 60 days to obtain a test report once a test is finished. Consequently, IEEC LLC requested a modification to these permit conditions to allow 90 days following the end of the commissioning period for the submittal of the CEMs certification test reports to the District. IEEC LLC also requested a clarification of the deadlines for the installation of the CO and NOx CEMs for the gas turbines.

Ammonia CEMs Requirement

Conditions Affected:

- Permit Conditions AQ-26 and AQ-46

Date of SCAQMD Permit Change: October 21, 2005 Administrative Changes to Facility Permit

Reason for Change

In June 27, 2005 and August 26, 2005 letters to the SCAQMD, IEEC LLC requested a change from an ammonia concentration CEM requirement to the District's standard ammonia slip calculation method. IEEC LLC based the request on the fact that CEM systems to monitor ammonia slip at power plants involve new technology and there is insufficient operational information on these systems to provide either the District or IEEC any basis to assure reliability and compliance. Moreover, there are no federal performance specifications currently available for these systems. Thus, IEEC LLC concluded that the best approach to address ammonia slip is the use of the District's standard ammonia slip calculation method.

Gas Turbine Startup/Shutdown Emission Limits

Conditions Affected:

- Permit Condition AQ-18

Date of SCAQMD Permit Change: October 21, 2005 Administrative Changes to Facility Permit

Reason for Change

In June 27, 2005 and August 26, 2005 letters to the SCAQMD, IEEC LLC requested a change to the NOx and CO emission limits from levels based on an average lb/hr level over the duration of the gas turbine startup/shutdown to a maximum one-hour average. The District-proposed limits assume that every startup/shutdown occurs over a six-hour period. Hot or warm startups may have elevated emissions over a shorter period of time, however, resulting in the District-proposed emission limits being overly restrictive and inconsistent with the values proposed (and analyzed) in the permit application. Consequently, IEEC LLC requested a change in the startup/shutdown emission limits to the maximum lb/hr levels analyzed in the February 2005 permit application. IEEC LLC also requested a cap to the total NOx and CO emissions during any type of startup/shutdown (hot, warm, or cold startup) by adding NOx and CO lbs/start limits based on the levels analyzed in the February 2005 permit application.

FLM MOU Signing Deadline

Conditions Affected:

- Permit Condition AQ-2

Date of SCAQMD Permit Change: January 31, 2006 minor modification to Title V permit

Reason for Change

In a January 17, 2006 letter to the SCAQMD, IEEC LLC requested a 6-month extension to the signing deadline of the Memorandum of Understanding (MOU) with the U.S. Forest Service to participate in a visibility monitoring project.

Gas Turbine VOC Emission Factors

Conditions Affected:

- Permit Condition AQ-13

Date of SCAQMD Permit Change: October 21, 2005 Administrative Changes to Facility Permit

Reason for Change

As part of the October 21, 2005 administrative change to the facility permit, the SCAQMD decided that it was necessary to include separate VOC emission factors for normal gas turbine operation and for gas turbine startups.

Gas Turbine NOx Emissions During Commissioning

Conditions Affected:

- Permit Condition AQ-SC13

Date of SCAQMD Permit Change: October 21, 2005 Administrative Changes to Facility Permit

Reason for Change

As discussed above for Condition AQ-18, in June 27, 2005 and August 26, 2005 letters to the SCAQMD, IEEC LLC requested a change to the hourly NOx emission limits during gas turbine startups/shutdowns. The revised maximum NOx emission rate during gas turbine startups/shutdowns of 408 lbs/hr per gas turbine is shown in the October 21, 2005 administrative changes to the facility permit. The requested change to Condition AQ-SC13 reflects this revised NOx emission limit during gas turbine startups/shutdowns.

Equipment Descriptions

Conditions Affected:

- Permit Condition AQ-SC16

Date of SCAQMD Permit Change: January 27, 2006 Title V Permit

Reason for Change

IEEC LLC requests this change in order for the equipment descriptions in the CEC Order Approving the Project to be consistent with the equipment descriptions in the current SCAQMD permit.

Emergency Generator Engines Recordkeeping

Conditions Affected:

- Permit Condition AQ-53

Date of SCAQMD Permit Change: August 5, 2005 Facility Permit

Reason for Change

In the August 5, 2005 facility permit, the SCAQMD removed the requirement to keep emergency generator engine operating records for a minimum of two years. IEEC LLC requested this change to make the CEC Order Approving the Project consistent with the current SCAQMD permit.

Daily Operating Limit – Gas Turbines and Auxiliary Boiler

Conditions Affected:

- Permit Condition AQ-58 (new condition number added)

Date of SCAQMD Permit Change: June 6, 2006 Revised Facility Permit

Reason for Change

In an April 20, 2006 letter to the SCAQMD, IEEC LLC requested a new permit condition limiting the combined daily operation of the gas turbines and auxiliary boiler.

Miscellaneous Minor Changes

Conditions Affected:

- Several conditions

Date of SCAQMD Permit Change: January 27, 2006 Title V Permit

Reason for Change

The enclosed markup of the Air Quality Conditions of Certification includes several minor narrative, typographical, and/or format changes. IEEC LLC requests these changes to make the CEC Order Approving the Project consistent with the current SCAQMD permit.

In addition to the above requested changes associated with the SCAQMD permit, we request changes to Permit Conditions AQ-SC1 and AQ-SC8. It is our understanding that the CEC staff no longer requires the air quality construction mitigation manager and/or any air quality construction mitigation monitors to be certified for visible emissions monitoring. Consequently, we request that this requirement be removed from Permit Condition AQ-SC1. Permit Condition AQ-SC8 requires the submittal of quarterly operational reports to both the CEC Compliance Project Manager and SCAQMD. Since there are no SCAQMD permit conditions requiring this report, we request that the requirement to submit the report to the SCAQMD be removed from Permit Condition AQ-SC8.

3.2 Biological Resources

The proposed Amendment will not result in biological resource impacts any different than those analyzed by the CEC during licensing of the project.

3.3 Cultural Resources

The proposed Amendment will not result in cultural resource impacts any different than those analyzed by the CEC during licensing of the project.

3.4 Land Use

The proposed Amendment will not result in land use impacts any different than those analyzed by the CEC during licensing of the project.

3.5 Noise

The proposed Amendment will not result in noise impacts any different than those analyzed by the CEC during licensing of the project.

3.6 Public Health

The proposed Amendment will not result in public health impacts any different than those analyzed by the CEC during licensing of the project.

3.7 Worker Safety & Health

The proposed Amendment will not result in worker safety and health impacts any different than those analyzed by the CEC during licensing of the project.

3.8 Socioeconomics

The proposed Amendment will not result in socioeconomic impacts any different than those analyzed by the CEC during licensing of the project.

3.9 Agriculture & Soils

The proposed Amendment will not result in agricultural and soil impacts any different than those analyzed by the CEC during licensing of the project.

3.10 Traffic & Transportation

The proposed Amendment will not result in traffic and transport impacts any different than those analyzed by the CEC during licensing of the project.

3.11 Visual Resources

The proposed Amendment will not result in visual resource impacts any different than those analyzed by the CEC during licensing of the project.

3.12 Hazardous Materials Management

The proposed Amendment will not result in hazardous materials management impacts any different than those analyzed by the CEC during licensing of the project.

3.13 Waste Management

The proposed Amendment will not result in waste management impacts any different than those analyzed by the CEC during licensing of the project.

3.14 Water Resources

The proposed Amendment will not result in water resource impacts any different than those analyzed by the CEC during licensing of the project.

3.15 Geologic Hazards and Resources

The proposed Amendment will not result in geologic hazard and resource impacts any different than those analyzed by the CEC during licensing of the project.

3.16 Paleontological Resources

The proposed Amendment will not result in paleontological resource impacts any different than those analyzed by the CEC during licensing of the project.

3.17 Cumulative Impacts

The proposed Amendment will not result in cumulative impacts any different than those analyzed by the CEC during licensing of the project.

3.18 Laws, Ordinances, Regulations, Standards

The Final Decision certifying the Inland Empire Energy Center found the project to be in compliance with applicable LORS. As described in this Amendment, the proposed changes to the air quality conditions of certification are also consistent with all applicable LORS, and the Amendment will not alter the assumptions or conclusions made in the CEC's Final Decision for the Inland Empire Energy Center.

4.0 PROPOSED MODIFICATIONS TO THE CONDITIONS OF CERTIFICATION

Consistent with the requirements of CEC Siting Regulations Section 1769(a)(1)(A), potential modifications to the project's Conditions of Certification were evaluated. IEEC LLC is requesting approval of the proposed changes to the conditions of certification shown in Attachment 1. Requested changes are shown in underline/strikeout format.

5.0 POTENTIAL EFFECTS ON THE PUBLIC

Consistent with the CEC Siting Regulations Section 1769(a)(1)(G), this section discusses the proposed project modification effects on the public. The proposed project modifications contained in this Amendment will have no significant impacts on the environment, and will be in compliance with all applicable LORS. Accordingly, there will be no adverse impacts on the public associated with this Amendment.

6.0 LIST OF PROPERTY OWNERS

CEC Siting Regulations Section 1769(a)(1)(H) requires a list of the property owners potentially affected by the proposed Amendment. All property owners potentially affected by this Amendment are within the same corridor analyzed in the Inland Empire Energy Center Application for Certification, Amendment #1, and approved by the CEC on June 22, 2005. There are no additional parcels within 1,000 feet of the project site that were not previously within the notification range for the Inland Empire Energy Center.

7.0 POTENTIAL EFFECTS ON PROPERTY OWNERS

Consistent with the CEC Siting Regulation Section 1769(a)(1)(I), this section addresses potential effects of the proposed Amendment on nearby property owners, the public, and parties in the application proceeding. Because the proposed Amendment will have no significant impacts on the environment, there will not be any significant impacts to nearby property owners, the public, or nearby businesses.

ATTACHMENT 1

PROPOSED CHANGES TO CONDITIONS OF CERTIFICATION

Staff AIR QUALITY Conditions OF CERTIFICATION – Construction

AQ-SC1 The project owner shall fund all expenses for an on-site Air Quality Construction Mitigation Manager (AQCMM) who shall be responsible for maintaining compliance with conditions **AQ-SC2** through **AQ-SC6** for the entire project site and linear facility construction. The on-site AQCMM may delegate responsibilities identified in Conditions **AQ-SC1** through **AQ-SC6** to one or more air quality construction mitigation monitors. The on-site AQCMM shall have access to areas of construction of the project site and linear facilities, and shall have the authority to appeal to the CPM to have the CPM stop any or all construction activities as warranted by applicable construction mitigation conditions. ~~The on-site AQCMM, and any air quality construction mitigation monitors responsible for compliance with the requirements of AQ-SC4, shall have a current certification by the California Air Resources Board for Visible Emission Evaluation prior to the commencement of ground disturbance.~~ The AQCMM may have other responsibilities in addition to those described in this condition. The on-site AQCMM shall not be terminated without written consent of CPM.

Verification: At least 60 days prior to the start of ground disturbance, the project owner shall submit to the CPM, for approval, the name~~, current CARB Visible Emission Evaluation certificate,~~ and contact information for the on-site AQCMM and air quality construction mitigation monitors.

Staff AIR QUALITY Conditions OF CERTIFICATION – Operation

AQ-SC8 The project owner shall submit to the CPM ~~and District Executive Officer~~ Quarterly Operation Reports, no later than 30 days following the end of each calendar quarter, that include operational and emissions information as necessary to demonstrate compliance with Conditions **AQ-SC11, AQ-SC12, AQ-SC14, AQ-SC15, AQ-SC17**, and **AQ-1** through **AQ-57**, as applicable. The Quarterly Operation Report will specifically note or highlight incidences of noncompliance.

Verification: The project owner shall submit the Quarterly Operation Reports to the CPM ~~and APCO~~ no later than 30 days following the end of each calendar quarter.

AQ-SC9 The project owner shall provide emission reduction credits to offset turbine, auxiliary boiler, and standby/emergency equipment NOx, CO, VOC, SOx, and PM_{10} emissions in the form and amount required by the District. RECLAIM Trading Credits (RTCs) shall be provided for NOx as necessary to demonstrate compliance with **AQ-27, AQ-47, AQ-51, and AQ-52**. Emission reduction credits (ERCs) shall be provided for CO (822 lb/day, includes offset ratio of 1.2) and VOC (307 lb/day, includes offset ratio of 1.2). Emission reduction credits for SOx (91 lb/day) and PM_{10} (~~503~~379 lb/day) shall be obtained from the SCAQMD Priority Reserve.

The project owner shall surrender the ERCs for CO and VOC from among those that are listed in the table below or a modified list, as allowed by this condition. If additional ERCs are submitted, the project owner shall submit an updated table including the additional ERCs to the CPM. The project owner shall request CPM approval for any substitutions, modifications, or additions of credits listed.

Prior to commencement of construction, the project owner shall obtain sufficient RTCs to satisfy the District's requirements for the first year of operation.

The CPM, in consultation with the District, may approve any such change to the ERC list provided that the project remains in compliance with all applicable laws, ordinances, regulations, and standards, the requested change(s) will not cause the project to result in a significant environmental impact, and the District confirms that each requested change is consistent with applicable federal and state laws and regulations. The CPM may also consult the U.S. EPA to determine compliance of credits.

Pollutant	Quantity	(units)	ERC# or Offset Strategy
NOx	~~322,988~~ 322,684	lb	2006-2010+, Coastal Zone 1, Inland Zone 2 (as listed in Ex. 2, p. 5.1-54.)
CO	677	lb/day	#AQ003178
CO	144	lb/day	#AQ004233
CO	3	lb/day	#AQ004222
CO	2	lb/day	#AQ004417
VOC	307	lb/day	#AQ003069
PM10	~~503~~379	lb/day	Through Priority Reserve.
SOx	14	lb/day	#AQ005311
SOx	79	lb/day	Through Priority Reserve.

Verification: The project owner shall submit to the CPM records showing that the project's offset requirements have been met 15 days prior to initiating construction for Priority Reserve credits and RTCs, and 30 days prior to turbine first fire for traditional ERCs. If the CPM approves a substitution or modification to the list of ERCs, the CPM shall file a statement of the approval with the project owner and commission docket. The CPM shall maintain an updated list of approved ERCs for the project.

AQ-SC10 If the project owner uses Priority Reserve Credits to satisfy District ERC requirements, the project owner shall comply with all applicable requirements of SCAQMD Rule 1309.1 governing the use of such credits. Note: Nothing in this condition shall waive the requirements of Section 1720.3 of the Commission's regulations.

Verification: Within 15 days of becoming operational, the project owner shall submit to the District and CPM documentation substantiating that the requirements of SCAQMD Rule 1309.1 and Section 1720.3 of the Commission's regulations have been met.

AQ-SC11 The project owner shall perform quarterly cooling tower recirculating water quality testing for each cooling tower, or shall provide for continuous monitoring of

conductivity as an indicator, for total dissolved solids content. The project owner shall also provide flow meters to determine the daily cooling tower circulating water flow for each cooling tower.

Verification: The project owner shall submit to the CPM cooling tower recirculating water quality tests or a summary of continuous monitoring results and daily recirculating water flow in the Quarterly Operation Report (**AQ-SC8**). If the project owner uses continuous monitoring of conductivity as an indicator for total dissolved solids content, the project owner shall submit data supporting the calibration of the conductivity meter and the correlation with total dissolved solids content at least once each year in a Quarterly Operation Report (**AQ-SC8**).

AQ-SC12 The cooling tower daily PM_{10} emissions shall be limited to 42 lb/day per cooling tower. Each cooling tower shall be equipped with a drift eliminator to control the drift fraction to 0.0005 percent of the circulating water flow. The project owner shall estimate daily PM_{10} emissions from each cooling tower using the water quality testing data or continuous monitoring data and daily circulating water flow data collected on a quarterly basis.

Verification: The project owner shall submit to the CPM daily cooling tower PM_{10} emission estimates in the Quarterly Operation Report (**AQ-SC8**).

AQ-SC13 The project owner shall minimize emissions of carbon monoxide and nitrogen oxides from the gas turbines to the maximum extent possible during the commissioning period. During the commissioning period, the project owner shall limit the combined CO emission rate for the two gas turbines to 794.2 lbs/hr (777 lbs/hr commissioning plus 17.2 lbs/hr baseload) and limit the combined NOx emission rate for the two gas turbines to ~~605.8~~ 816 lbs/hr (~~587 lb/hr commissioning plus 18.8 lb/hr baseload~~408 lbs/hr for each)

Verification: See the verification for Condition **AQ-17**.

AQ-SC14 The project owner shall limit emissions during startup periods. During startup periods, the project owner shall limit the combined CO emission rate for the two gas turbines to 190 lbs/hr (95 lbs/hr for each) and limit the combined NOx emission rate for the two gas turbines to 816 lbs/hr (408 lbs/hr for each).

Verification: See the verification for Condition **AQ-18**.

AQ-SC15 The gas turbines shall be fired on natural gas that results in emissions of less than 1.83 lb/hr SOx for each gas turbine, averaged over three hours.

Verification: The project owner shall compile hourly SOx emissions data for each gas turbine. The hourly emission data shall be calculated using the emission factor specified in Condition **AQ-13**. The emissions data shall be submitted to the CPM in the Quarterly Operation Report (**AQ-SC8**).

AQ-SC16 The project owner shall install and operate the equipment so that it does not exceed the emission limits set forth in the Equipment Description portion of Section H of the facility permit issued by the District. The current Equipment Description, as shown in the ~~May 2005 Determination of Compliance~~ July 1, 2006

Facility Permit, is attached as **Attachment Air Quality 1 – AQ-SC16, Equipment Description**.

Verification: The project owner shall submit to the CPM emissions data demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**). The project owner shall submit to the CPM all permit changes, whether initiated by the project owner or the District, pursuant to Condition **AQ-SC7**.

AQ-SC17 If the Project owner does not voluntarily participate in the California Climate Action Registry then the Project owner shall report to the CPM the quantity of CO2 emitted on an annual basis as a direct result of facility electricity production.

Verification: Any CO_2 emissions that are reported by the project owner to the California Climate action Registry or pursuant to this condition shall be reported to the CPM once every year as part of the fourth Quarterly Air Quality Reports required by Condition of Certification **AQ-SC8**.

DISTRICT CONDITIONS OF CERTIFICATION – DETERMINATION OF COMPLIANCE

Facility Conditions

AQ-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. (SCAQMD F9-1)

Verification: The project owner shall document any known opacity violations in the Quarterly Operation Report (**AQ-SC8**). The project owner shall make the site available for inspection by representatives of the District, CARB, EPA and the Commission.

AQ-2 ~~The equipment is subject to the applicable requirements of the following rules or regulations~~ operator shall operate and maintain this equipment according to the following requirements:

Within ~~6~~12 months of permit issuance, the ~~facility~~ Permittee will sign a Memorandum of Understanding with the U.S. Forest Service to participate in a visibility monitoring project, the results of which will be used to establish a visibility baseline in nearby Class 1 Areas. (SCAQMD E193-3)

Verification: The project owner shall make the U.S. Forest Service Memorandum of Understanding available for inspection by representatives of the District, CARB and the Commission upon request.

AQ-3 The operator shall not ~~purchase or~~ burn diesel fuel ~~oil~~ containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

(SCAQMD F14-1)

Verification: The project owner shall make fuel oil purchase, MSDS or other fuel supplier records containing diesel fuel sulfur content available for inspection by representatives of the District, CARB and the Commission upon request.

AQ-4 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the SCAQMD Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency. (SCAQMD F24-1)

Verification: The project owner shall submit to the District and the CPM the documents listed above as part of an annual compliance certification.

Gas Turbines and SCR

Conditions of Certification AQ-5 through AQ-28 apply individually to each turbine/HRSG unit unless otherwise identified.

AQ-5 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia (NH_3).

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 twelve months. (SCAQMD D12-1)

Verification: The project owner shall make the site available for inspection of the ammonia flow meter and ammonia flow records by representatives of the District, CARB and the Commission.

AQ-6 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in 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 twelve months. (SCAQMD D12-2)

Verification: The project owner shall make the site available for inspection of the temperature gauge on the inlet to the SCR and the continuous temperature records by representatives of the District, CARB and the Commission.

AQ-7 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches 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 twelve months. (SCAQMD D12-3)

Verification: The project owner shall make the site available for inspection of the SCR catalyst bed differential pressure gauge and the differential pressure records by representatives of the District, CARB and the Commission.

AQ-8 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
NO_x emissions	District Method 100.1	1 hour	Outlet of the SCR
CO emissions	District Method 100.1	1 hour	Outlet of the SCR
SO_x emissions	Approved District Method	District Approved Averaging Time	Fuel Sample
VOC emissions	Approved District Method	1 hour	Outlet of the SCR
PM emissions	Approved District Method	District Approved Averaging Time	Outlet of the SCR
NH_3 emissions	District Method 207.1 and 5.3 or EPA Method 17	1 hour	Outlet of the SCR

The test shall be conducted after District approval of the source test protocol, but no later than 180 days after initial start-up. The 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 to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate, and the combined gas turbines and steam turbine generating output in MW shall also be recorded if applicable.

The test shall be conducted in accordance with a District approved source 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 District 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.

For ~~natural~~ gas ~~fired~~ turbines only the VOC test shall use the following ~~test~~ method: a) Stack gas samples are extracted into Summa canisters, maintaining a final canister pressure between 400 - 500 mm Hg absolute, b) Pressurization of Summa canisters is done with zero gas analyzed/certified to containing less than

0.05 ppmv total hydrocarbons as carbon, and c) Analysis of Summa canisters is per EPA Method TO-12 (with pre-concentration) and the temperature of the Summa canisters when extracting samples for analysis is not to be below 70 degrees F.

The use of this alternative VOC test method is solely for the determination of compliance with the VOC BACT level of 2.0 ppmv calculated as carbon for natural gas fired turbines. Because the BACT level was set using data derived from various source test methods, this alternate method provides a fair comparison and represents the best sampling and analysis technique for this purpose at this time. The test results must be reported with two significant digits.

The test shall be conducted when this equipment is operating at loads of 100, 75, and 50 (50 percent or the minimum compliant load achieved) percent of maximum load for the NO_x, CO, VOC, ~~PM,~~ and ammonia tests. The PM test shall be conducted when this equipment is operating at 100% of maximum load. All testing for this equipment shall be conducted in TRIPLICATE.

The test shall be conducted when this equipment is operating at 100 percent of maximum load for the PM test. (SCAQMD D29-1)

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

AQ-9 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
SO_x emissions	Approved District Method	District Approved Averaging Time	Fuel Sample
VOC emissions	Approved District Method	1 hour	Outlet of the SCR
PM emissions	Approved District Method	District Approved Averaging Time	Outlet of the SCR

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

The test shall be conducted and the results submitted to the District within 60 days after the test date. 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 when the gas turbine is operating at 100 percent of maximum heat input. Testing for this equipment shall be conducted in TRIPLICATE.

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

The use of this alternative VOC test method is solely for the determination of compliance with the VOC BACT level of 2.0 ppmv calculated as carbon for natural gas fired turbines. Because the BACT level was set using data derived from various source test methods, this alternate method provides a fair comparison and represents the best sampling and analysis technique for this purpose at this time. The test results must be reported with two significant digits.

The test shall be conducted to demonstrate compliance with the Rule 1303 concentration and/or monthly emissions limit. (SCAQMD D29-2)

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

AQ-10 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
NH_3 emissions	District Method 207.1 and 5.3 or EPA Method 17	1 hour	Outlet of the SCR

The test shall be conducted and the results submitted to the District within 60 days after the test date. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test(s) 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 certified CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable or not yet certified, 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 demonstrate compliance with the Rule 1303 concentration limit. (SCAQMD D29-3)

Verification: The project owner shall submit the proposed protocol for the ammonia slip source tests 30 days prior to the proposed source test date to the District for approval and to the CPM for review. The project owner shall notify the District and CPM no later than ten days prior to the proposed source test date and time. The project

owner shall submit source test results no later than 60 days following the source test date to both the District and CPM.

AQ-11 The operator shall provide to the District a source test report (see **AQ-8**, **AQ-9**, and **AQ-10**) 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 ~~and in terms of lbs/MMBtu~~.

All exhaust flow rates 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, the fuel flow rate (CFH), the flue gas temperature, and the generator power output (MW) under which the test was conducted. (SCAQMD K40-1)

Verification: See verifications for Conditions **AQ-8**, **AQ-9**, and **AQ-10**.

AQ-12 The operator shall not use natural gas containing the following specified compounds:

Compound	Grains per 100 scf
H2S	Greater than 0.25

This concentration limit is an annual average based on monthly sample of natural gas composition or gas supplier documentation. (SCAQMD B61-1)

Verification: The project owner shall submit to the CPM and APCO turbine fuel data demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-13 The operator shall limit emissions from this equipment as follows:

Contaminant	Emissions Limit
CO	9,728 LBS IN ANY 1 MONTH
PM_{10}	~~7,440~~5,580 LBS IN ANY 1 MONTH
VOC	3,769 LBS IN ANY 1 MONTH
SO_x	1,362 LBS IN ANY 1 MONTH

For the purpose of this condition, the limits shall be based on the emissions from each gas turbine.

The operator shall calculate the emissions limit(s) by using monthly fuel use data and the following emission factors: PM_{10} ~~3.91~~2.93 lbs/mmscf, ~~VOC 1.79 lbs/mmscf,~~ SO_x 0.71 lbs/mmscf.

The operator shall calculate the emission limit(s) by using monthly fuel use data and the following emission factors: VOC 1.79 lbs/mmscf for normal operations, VOC 12.29 lbs/mmscf for startups.

The operator shall calculate the emissions limit(s) for CO, during the commissioning period, using fuel consumption data and the following emission factor: 22.19 lb/mmscf.

The operator shall calculate the emission limit(s) for CO, after the commissioning period and prior to the CO CEMS certification, using fuel consumption data and the following emission factor: 4.48 lbs/mmscf.

The operator shall calculate the emissions limit(s) for CO, after the CO CEMS certification, based on readings from the certified CEMS. In the event the CO CEMS is not operating or the emissions exceed the valid upper range of the analyzer, the emissions shall be calculated in accordance with the approved CEMS plan. (SCAQMD A63-1)

Verification: The project owner shall submit to the CPM and APCO turbine emissions data demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-14 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Natural gas fuel use during the commissioning period. (SCAQMD K67-1)

Verification: The project owner shall make the site available for inspection of the commissioning period natural gas usage data by representatives of the District, CARB and the Commission.

AQ-15 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 will convert the actual CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed and operated, in accordance with an approved AQMD Rule 218 CEMS plan application. The operator shall not install the CEMS prior to receiving initial approval from AQMD.

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

The CEMS shall be installed and in operation no later than 90 days after initial startup of the turbine. ~~and~~ Rule 218 testing shall be completed and submitted to the AQMD within 90 days of ~~at~~ the conclusion of the turbine commissioning period ~~prior to base load commercial operation~~. (SCAQMD D82-1)

Verification: The CEMS shall be installed and in operation no later than 90 days after initial startup of the turbine. ~~and~~ Rule 218 testing shall be completed and submitted to the AQMD within 90 days of ~~at~~ the conclusion of the turbine commissioning period ~~prior to baseload commercial~~ operation. The project owner shall provide the CPM documentation of the Districts approval of the CEMS, within 15 days of its receipt. The project owner shall make the site available for inspection of the CEMS by representatives of the District, CARB and the Commission.

AQ-16 The operator shall install and maintain a CEMS to measure the following parameters:

NO_x concentration is expressed in ppmv.

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

The CEMS shall be installed and operating no later than 12 months after initial start-up of the turbine and shall comply with the requirements of Rule 2012. During the interim period between the 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 startup date, the operator shall provide written notification to the District of the exact date of start-up.

The CEMS shall be installed and in operation within 90 days after initial startup of the turbine. ~~and~~ Rule 2012 provisional RATA testing shall be completed and submitted to the AQMD within 90 days of ~~at~~ the conclusion of the turbine commissioning period ~~prior to base load commercial operation~~. (SCAQMD D82-2)

Verification: The CEMS shall be in operation within 90 days after initial startup of the turbine. ~~and~~ Rule 2012 provisional RATA testing shall be completed and submitted to the AQMD within 90 days of ~~at~~ the conclusion of the turbine commissioning period ~~prior to base load commercial operation~~. The project owner shall provide the CPM documentation of the Districts approval of the CEMS, within 15 days of its receipt. The project owner shall make the site available for inspection of the CEMS by representatives of the District, CARB and the Commission.

AQ-17 The 68.26 lbs/mmscf NO_x emission limit(s) shall only apply during the turbine commissioning period. (SCAQMD A99-1)

Verification: The project owner shall submit, commencing one month from the time of gas turbine first fire, a monthly commissioning status report throughout the duration of

the commissioning phase that demonstrates compliance with this condition and the emission limits of Condition **AQ-13**. The monthly commissioning status report shall include criteria pollutant emission estimates for each commissioning activity and total commissioning emission estimates. The monthly commissioning status report shall be submitted to the CPM until the report includes the completion of the initial commissioning activities. The project owner shall make the site available for inspection of the commissioning records by representatives of the District, CARB and the Commission.

AQ-18 The operator shall operate and maintain this equipment according to the following requirements:

The commissioning period shall not exceed 509 hours of operation for both turbines during the first 180 calendar days from the date of initial start-up.

Startup/shutdown time shall not exceed 4 hours per day per gas turbine, except for a cold startup and combustor-tuning activities which shall not exceed 6 hours per day per gas turbine. ~~For purposes of this condition a~~ A cold startup shall be defined as a startup of the gas turbine after 72 hours of non-operation. Combustor-tuning activities shall be defined as all testing, adjusting, tuning, and calibration activities recommended by the turbine manufacturer to ensure safe, reliable, and in-specification operation of the turbine.

Startup/shutdown and combustor-tuning activity emissions shall not exceed ~~125~~ 408 lbs/hr NOx and ~~50~~ 95 lbs/hr CO averaged for the duration of the startup. The startup/shutdown and combustor-tuning activity emissions shall not exceed 803 lbs/event NOx and 300 lbs/event CO.

Monthly startup/shutdown time shall not exceed 31 hours. Shutdown time does not include non-operation time.

The operator shall provide the AQMD with written notification of the initial startup date. Written records of commissioning, startups, and shutdowns shall be maintained and made available upon request from AQMD. (SCAQMD E193-2)

Verification: The project owner shall submit to the CPM the final commissioning status report as in Condition AQ-17. The project owner shall provide startup and shutdown occurrence, duration, and emissions data demonstrating compliance with this condition as part of the Quarterly Operation Report (AQ-SC8). The project owner shall make the site available for inspection of the commissioning and start-up/shutdown records by representatives of the District, CARB and the Commission.

AQ-19 The 7.36 lbs/mmscf NO_x emission limit(s) shall only apply during the interim reporting period after the commissioning period to report RECLAIM emissions. (SCAQMD A99-3)

Verification: The project owner shall submit to the CPM and APCO turbine emissions data demonstrating compliance with this condition through the use of the required RECLAIM emission factor, as appropriate, as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-20 For the purpose of the following conditions 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. (SCAQMD E179-1)

Condition **AQ-5** (SCAQMD D12-1)

Condition **AQ-6** (SCAQMD D12-2)

Verification: See verifications for Conditions **AQ-5** and **AQ-6.**

AQ-21 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 month. (SCAQMD E179-2)

Condition **AQ-7** (SCAQMD D12-3)

Verification: See verification for Condition **AQ-7.**

AQ-22 The 2.0 ppmv NO_x emission limit(s) is averaged over 1 hour at 15 percent oxygen, dry basis. The limit shall not apply to turbine commissioning, combustor-tuning activities, startup and shutdown periods. The limit shall not apply to the first fifteen 1-hour average NOx emissions above 2.0 ppmv, dry basis at 15% O2, in any rolling 12-month period for each combustion gas turbine provided that it meets all of the following requirements:

A. This equipment operates under any one of the qualified conditions described below:

a) Rapid combustion turbine load changes due to the following conditions:
- Load changes initiated by the California ISO or a successor entity when the plant is operating under Automatic Generation Control; or
- Activation of a plant automatic safety or equipment protection system which rapidly decreases turbine load

b) The first two 1-hour reporting periods following the initiation/shutdown of ~~a~~ the inlet air ~~cooling~~ chilling system ~~injection pump~~

e) Events as the result of technological limitation identified by the operator and approved in writing by the AQMD Executive Officer or his designees

B. The 1-hour average NOx emissions above 2.0 ppmv, dry basis at 15% O2, did not occur as a result of operator neglect, improper operation or maintenance, or qualified breakdown under Rule 2004(i).

C. The qualified operating conditions described in (A) above are recorded in the plant's operating log within 24 hours of the event, and in the CEMS by 5 p.m. the next business day following the qualified operating condition. The notations in the log and CEMS must describe the date and time of entry into the log/CEMS and the plant operating conditions responsible for NOx emissions exceeding the 2.0 ppmv 1-hour average limit.

D. The 1-hour average NOx concentration for periods that result from a qualified operating condition does not exceed 25 ppmv, dry basis at 15 percent O2.

All NOx emissions during these events shall be included in all calculations of hourly, daily, and annual mass emission rates as required by this permit. (SCAQMD A195-1)

Verification: The project owner shall submit to the CPM and APCO turbine CEMS emissions data demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-23 The 3.0 ppmv CO emission limit(s) is averaged over 1 hour at 15 percent oxygen, dry basis. This limit shall not apply to turbine commissioning, combustor-tuning activities, startup and shutdown periods. (SCAQMD A195-2)

Verification: The project owner shall submit to the CPM and APCO turbine CEMS emissions data demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-24 The 2.0 ppmv VOC emission limit(s) is averaged over 1 hour at 15 percent oxygen, dry basis. This limit shall not apply to turbine commissioning, combustor-tuning activities, startup and shutdown periods. (SCAQMD A195-3)

Verification: See verifications for Conditions **AQ-8** and **AQ-9**.

AQ-25 The 5 ppmv NH_3 emissions limit(s) is averaged over 1 hour at 15 percent oxygen, dry basis. (SCAQMD A195-7)

Verification: See verification for Conditions **AQ-8**, **AQ-10**, and **AQ-26**.

AQ-26 ~~The operator shall install, operate, and maintain an approved Continuous Emission Monitoring Device, approved by the Executive Officer, to monitor and record ammonia concentrations, and alert the operator (via audible or visible alarm) whenever ammonia concentrations are near, at, or in excess of the permitted ammonia limit of 5 ppmv, corrected to 15% oxygen. It shall continuously monitor or calculate, and record the following parameters:~~

- ~~Ammonia concentration, uncorrected in ppmv~~
- ~~Oxygen concentration in percent~~
- ~~Ammonia concentration in ppmv, corrected to 15% oxygen~~
- ~~Date, time, extent (in time) of all excursions above 5 ppmv, corrected to 15% oxygen~~

~~The Continuous Emission Monitoring Device described above shall be operated and maintained according to a Quality Assurance Plan (QAP) approved by the AQMD Executive Officer. The QAP must address contingencies for monitored ammonia concentrations near, at, or above the permitted compliance limit, and~~

~~remedial actions to reduce ammonia levels once an exceedance a violation has occurred.~~

~~The Continuous Emission Monitoring Device may not be used for compliance determination or emission information determination without corroborative data using an approved reference method for the determination of ammonia.~~

~~The Continuous Emission Monitoring Device shall be installed and operating no later than 90 days after initial startup of the turbine. (SCAQMD D232-1)~~The operator shall operate and maintain this equipment according to the following requirements:

The operator shall calculate and continuously record the NH3 slip concentration using the following: NH3(ppmvd)=[a-b*(c*1.2)/1E6]*1E6/b, where a=NH3 injection rate (lb/hr)/17(lb/lb-mol), b= dry exhaust flow rate (scf/hr)/(385.5 scf/lb-mol), c = change in measured NOx across the SCR, ppmvd at 15 percent O2.

The operator shall install a NOx analyzer to measure the SCR inlet NOx ppm accurate to within +/- 5 percent calibrated at least once every 12 months. The operator shall use the method described above or another alternative method approved by the Executive Officer.

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information determination without corroborative data using an approved reference method for the determination of ammonia. The ammonia slip calculation procedure shall be in-effect no later than 90 days after initial startup of the turbine. (SCAQMD E193-4)

Verification: ~~The project owner shall provide the CPM documentation of the District's approval of the continuous emission monitoring device, within 15 days of its receipt.~~ The project owner shall make the site available for inspection of the ~~monitoring device and~~ monitoring ~~device~~ records by representatives of the District, CARB and the Commission. The project owner shall submit to the CPM emissions data generated by the ~~continuous emission monitoring device~~ calculation procedure as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-27 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 ~~159,163~~ 165,612 lbs for the initial gas turbine plus ~~135,754~~ 152,218 lbs for the second gas turbine. This condition shall apply during

the first twelve months of operation, commencing with the initial operation of each gas turbine.

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 ~~159,069~~ 158,943 lbs for each 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. (SCAQMD I296-1 and I296-2)

Verification: The project owner shall submit to the CPM copies of all RECLAIM reports filed with the District demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-28 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. (SCAQMD A327-1)

Verification: See verifications for Conditions **AQ-8** and **AQ-9**.

Auxiliary Boiler and SCR

AQ-29 The operator shall install and maintain a flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia (NH_3).

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 twelve months. (SCAQMD D12-1)

Verification: The project owner shall make the site available for inspection of the ammonia flow meter and ammonia flow records by representatives of the District, CARB and the Commission.

AQ-30 The operator shall install and maintain a temperature gauge to accurately indicate the temperature in 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 twelve months. (SCAQMD D12-2)

Verification: The project owner shall make the site available for inspection of the temperature gauge on the inlet to the SCR and the continuous temperature records by representatives of the District, CARB and the Commission.

AQ-31 The operator shall install and maintain a pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches 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 twelve months. (SCAQMD D12-3)

Verification: The project owner shall make the site available for inspection of the SCR catalyst bed differential pressure gauge and the differential pressure records by representatives of the District, CARB and the Commission.

AQ-32 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
NO_x emissions	District Method 100.1	1 hour	Outlet of the SCR
CO emissions	District Method 100.1	1 hour	Outlet of the SCR
~~SO_x emissions~~	~~Approved District Method~~	~~District Approved Averaging Time~~	~~Fuel Sample~~
~~ROG~~ **VOC** ~~emissions~~	~~Approved District Method~~	~~1 hour~~	~~Outlet of the SCR~~
~~PM emissions~~	~~Approved District Method~~	~~District Approved Averaging Time~~	~~Outlet of the SCR~~
NH_3 emissions	District Method 207.1 and 5.3 or EPA Method 17	1 hour	Outlet of the SCR

The test shall be conducted after District approval of the source test protocol, but no later than 180 days after initial start-up. The 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 to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate.

The test shall be conducted in accordance with a District approved source 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 District before the test commences. The test protocol shall include the proposed operating conditions of the auxiliary boiler 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 ~~loads of~~ 100~~, 75, and 50~~ percent of maximum load for the NOx, CO, ~~ROG VOC, PM,~~ and ammonia tests. (SCAQMD D29-4).

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

AQ-33 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be	Required Test Method(s)	Averaging Time	Test Location

tested			
NH_3 emissions	District Method 207.1 and 5.3 or EPA Method 17	1 hour	Outlet of the SCR

The test shall be conducted and the results submitted to the District within 60 days after the test date. 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 least quarterly during the first twelve months of operation and at least annually thereafter. The NO_x concentration, as determined by the certified CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable or not yet certified, a test shall be conducted to determine the NO_x emissions using District Method 100.1 measured over a 60 minute averaging time period.

The test shall be conducted to demonstrate compliance with the Rule 1303 concentration limit. (SCAQMD D29-3)

Verification: The project owner shall submit the proposed protocol for the source tests 30 days prior to the proposed source test date to the District for approval and to the CPM for review. The project owner shall notify the District and CPM no later than ten days prior to the proposed source test date and time. The project owner shall submit source test results no later than 45 days following the source test date to both the District and CPM.

AQ-34 The operator shall provide to the District a source test report (see **AQ-32** and **AQ-33**) 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 3 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 rates 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 3 percent oxygen.
- Source test results shall also include the oxygen levels in the exhaust, the fuel flow rate (CFH), the flue gas temperature, and the generator power output (MW) under which the test was conducted. (SCAQMD K40-2)

Verification: See verifications for Conditions **AQ-32** and **AQ-33.**

AQ-35 The operator shall limit the fuel usage to no more than ~~30.17~~29.24 mmscf per month ~~92.844 mmscf per year~~.

To comply with this condition, the operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the auxiliary boiler. (SCAQMD C1.2)

Verification: The project owner shall submit to the CPM and APCO the auxiliary boiler operations data demonstrating compliance with this condition as part of the Quarterly Operation Report (AQ-SC8). The project owner shall make the auxiliary boiler available for inspection by representatives of the District, CARB and the Commission upon request.

AQ-36 The operator shall limit emissions from this equipment as follows:

Contaminant	Emissions Limit
CO	1,113 LBS IN ANY 1 MONTH
PM_{10}	218 LBS IN ANY 1 MONTH
VOC	~~90~~127 LBS IN ANY 1 MONTH
SO_x	21 LBS IN ANY 1 MONTH

The operator shall calculate the emissions limit(s) by using monthly fuel use data and the following emission factors: CO 36.92 lb/mmscf, PM_{10} 7.26 lbs/mmscf, VOC 4.22 lbs/mmscf, SO_x 0.71 lbs/mmscf.

The operator shall calculate the emissions limit(s) for CO, after the CO CEMS certification, based on readings from the certified CEMS. In the event the CO CEMS is not operating or the emissions exceed the valid upper range of the analyzer, the emissions shall be calculated in accordance with the approved CEMS plan. (SCAQMD A63-2)

Verification: The project owner shall submit to the CPM and APCO boiler emissions data demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-37 The operator shall install and maintain a CEMS to measure the following parameters:

- CO concentration in ppmv.

Concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS will convert the actual CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed and operated, in accordance with an approved AQMD Rule 218 CEMS plan application. The operator shall not install the CEMS prior to receiving initial approval from AQMD.

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

The CEMS shall be installed and operating no later than 90 days after initial startup of the boiler. (SCAQMD D82-3)

Verification: The project owner shall provide the CPM documentation of the Districts approval of the CEMS, within 15 days of its receipt. The project owner shall make the site available for inspection of the CEMS by representatives of the District, CARB and the Commission.

AQ-38 The operator shall install and maintain a CEMS to measure the following parameters:

- NO_x concentration is expressed in ppmv.

Concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS shall be installed and operating no later than 12 months after initial start-up of the boiler and shall comply with the requirements of Rule 2012. During the interim period between the 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 boiler startup date, the operator shall provide written notification to the District of the exact date of start-up.

The CEMS shall be in operation and Rule 2012 provisional RATA testing submitted to the AQMD ~~at~~ within 90 days of the conclusion of the ~~turbine~~ boiler commissioning period ~~prior to base load commercial operation~~.

The CEMS shall be installed and operating no later than 90 days after initial startup of the boiler. (SCAQMD D82-4)

Verification: The project owner shall provide the CPM documentation of the Districts approval of the CEMS, within 15 days of its receipt. The project owner shall make the site available for inspection of the CEMS by representatives of the District, CARB and the Commission.

AQ-39 The 8.49 lbs/mmscf NO_x emission limit(s) shall only apply during the interim reporting period to report RECLAIM emissions. (SCAQMD A99-2)

Verification: The project owner shall submit to the CPM and APCO auxiliary boiler emissions data demonstrating compliance with this condition through the use of the required RECLAIM emission factor, as appropriate, as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-40 For the purpose of the following conditions 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. (SCAQMD E179-1)
Condition **AQ-29** (SCAQMD D12-1)
Condition **AQ-30** (SCAQMD D12-2)

Verification: See verifications for Conditions **AQ-29** and **AQ-30**.

AQ-41 For the purpose of the following condition 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 month. (SCAQMD E179-2)

Condition **AQ-31** (SCAQMD D12-3)

Verification: See verification for Condition **AQ-31**.

AQ-42 The 7 ppmv NO_x emission limit(s) ~~are~~ is averaged over one hour at 3 percent oxygen, dry basis. (SCAQMD A195-4)

Verification: The project owner shall submit to the CPM and APCO auxiliary boiler CEMS emissions data demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-43 The 50 ppmv CO emission limit(s) ~~are~~ is averaged over 1 hour at 3 percent oxygen, dry basis. (SCAQMD A195-5)

Verification: The project owner shall submit to the CPM and APCO auxiliary boiler CEMS emissions data demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-44 The 10 ppmv VOC emission limit(s) ~~are~~ is averaged over 1 hour at 3 percent oxygen, dry basis. (SCAQMD A195-6)

Verification: See verification for Condition AQ-32.

AQ-45 The 5 ppmv NH3 emission limit(s) ~~are~~ is averaged over 1 hour at 3 percent oxygen, dry basis. (SCAQMD A195-8)

Verification: See verification for Conditions **AQ-32**, **AQ-33**, and **AQ-46**.

AQ-46 ~~The operator shall install, operate, and maintain an approved Continuous Emission Monitoring Device, approved by the Executive Officer, to monitor and record ammonia concentrations, and alert the operator (via audible or visible alarm) whenever ammonia concentrations are near, at, or in excess of the permitted ammonia limit of 5 ppmv, corrected to 3% oxygen. It shall continuously monitor or calculate, and record the following parameters:~~

~~•Ammonia concentration, uncorrected in ppmv~~

~~•Oxygen concentration in percent~~

~~•Ammonia concentration in ppmv, corrected to 3 percent oxygen~~

~~•Date, time, extent (in time) of all excursions above 5 ppmv, corrected to 3 percent oxygen~~

~~The Continuous Emission Monitoring Device described above shall be operated and maintained according to a Quality Assurance Plan (QAP) approved by the AQMD Executive Officer. The QAP must address contingencies for monitored ammonia concentrations near, at, or above the permitted compliance limit, and remedial actions to reduce ammonia levels once an exceedancea violation has occurred.~~

~~The Continuous Emission Monitoring Device may not be used for compliance determination or emission information determination without corroborative data using an approved reference method for the determination of ammonia.~~

~~The Continuous Emission Monitoring Device shall be installed and operating no later than 90 days after initial startup of the boiler. (SCAQMD D232.2)~~The operator shall operate and maintain this equipment according to the following requirements:

The operator shall calculate and continuously record the NH3 slip concentration using the following: NH3(ppmvd)=[a-b*(c*1.2)/1E6]*1E6/b, where a=NH3 injection rate (lb/hr)/17(lb/lb-mol), b= dry exhaust flow rate (scf/hr)/(385.5 scf/lb-mol), c = change in measured NOx across the SCR, ppmvd at 3 percent O2.

The operator shall install a NOx analyzer to measure the SCR inlet NOx ppm accurate to within +/- 5 percent calibrated at least once every 12 months. The operator shall use the method described above or another alternative method approved by the Executive Officer.

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information determination without corroborative data using an approved reference method for the determination of ammonia. The ammonia slip calculation procedure shall be in-effect no later than 90 days after initial startup of the boiler. (SCAQMD E193-5)

Verification: ~~The project owner shall provide the CPM documentation of the District's approval of the continuous emission monitoring device, within 15 days of its receipt.~~ The project owner shall make the site available for inspection of the ~~monitoring device and~~ monitoring ~~device~~ records by representatives of the District, CARB and the Commission. The project owner shall submit to the CPM emissions data generated by the ~~continuous emission monitoring device~~ calculation procedure as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-47 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 ~~786~~ 790 lbs. This condition shall apply during the first twelve months of operation.

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 ~~786~~ 790 lbs. 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. (SCAQMD I296-3)

Verification: The project owner shall submit to the CPM copies of all RECLAIM reports filed with the District demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

Two Emergency Generator Engines and One Fire Pump Engine

Conditions of Certification AQ-48 through AQ-55 apply separately to ~~the~~ each emergency generator and fire pump engine, unless otherwise specified.

AQ-48 The operator shall limit the operating time of each engine to no more than 50 hours per year. (SCAQMD C1-1)

Verification: The project owner shall submit to the CPM and APCO the emergency generator and fire pump IC engines operations data demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-49 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of each engine. (SCAQMD D12-4)

Verification: The project owner shall make the emergency generator and fire pump engines available for inspection by representatives of the District, CARB and the Commission upon request.

AQ-50 The operator shall install and maintain a(n) non-resettable ~~elapsed~~ totalizing fuel meter to accurately indicate the ~~engine~~ fuel consumption of each engine. (SCAQMD D12-5)

Verification: The project owner shall make the emergency generator and fire pump engines available for inspection by representatives of the District, CARB and the Commission upon request.

AQ-51 The emergency generator engines 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 1,946 lbs for each engine. This condition shall apply during the first twelve months of operation. 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 1,946 lbs for each engine. 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. (SCAQMD I296-4)

Verification: The project owner shall submit to the CPM copies of all RECLAIM reports filed with the District demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-52 The fire pump engine shall not be operated unless the operator demonstrates to the Executive Officer that he 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 172 lbs. This condition shall apply during the first twelve months of operation.

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 172 lbs. 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. (SCAQMD I296-5)

Verification: The project owner shall submit to the CPM copies of all RECLAIM reports filed with the District demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

AQ-53 The operator shall keep records, in a manner approved by the District, for the following parameters or items:

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

~~Records shall be kept and maintained on file for a minimum of two years and made available to district personnel upon request~~. (SCAQMDK67-2)

Verification: The project owner shall make the emergency generator and fire pump engine records available for inspection by representatives of the District, CARB and the Commission upon request.

Ammonia Storage Tanks

AQ-54 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled. (SCAQMD E14~~4~~-1)

Verification: The project owner shall make the site available for inspection by representatives of the District, CARB and the Commission upon request.

AQ-55 The operator shall install and maintain a pressure relief valve with a minimum pressure set at 25 psig. (SCAQMD C157-1)

Verification: The project owner shall make the ammonia tank pressure relief valve and its specifications available for inspection by representatives of the District, CARB and the Commission upon request.

Organic Materials

AQ-56 The operator shall be subject to the applicable requirements of District Rule 1171 for VOC control from Solvent Cleaning Operations. This requirement shall apply to Rule 219 Exempted Cleaning Equipment. (SCAQMD H23-1)

Verification: The project owner shall make the site available for inspection by representatives of the District, CARB and the Commission upon request.

AQ-57 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.

- This requirement shall apply to Rule 219 Exempted Coating Equipment. (SCAQMD K67-3)

Verification: The project owner shall make the site available for inspection by representatives of the District, CARB and the Commission upon request.

AQ-58 The operator shall restrict the operation of this equipment according to the following requirements:

- The calendar daily cumulative operating hours for both gas turbines (D1 and D2) and the auxiliary boiler (D3) shall not exceed 60 hours per day. The operating hours shall be recorded and maintained using an automated data acquisition system. The operating hours shall be determined from the RECLAIM certified NOx CEMS accurate to the nearest 15-min operating period.

- The operator shall maintain daily records, summarizing the daily operating hours of each of the following equipment – gas turbine D1, gas turbine D2, auxiliary boiler D3, for at least 5 years and made available to AQMD upon request. (SCAQMD E193-6)

Verification: The project owner shall submit to the CPM and APCO turbine and boiler operating data demonstrating compliance with this condition as part of the Quarterly Operation Report (**AQ-SC8**).

ATTACHMENT AIR QUALITY 1 – AQ-SC16, EQUIPMENT DESCRIPTION

[Following is a copy of Equipment Description from the Determination of Compliance, filed by SCAQMD, distribution date May 17, 2005.]

EQUIPMENT DESCRIPTION

Section H of the facility permit: Permit to Construct and temporary Permit to Operate

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
PROCESS 1: COMBUSTION AND POWER GENERATION					
SYSTEM 1: GAS TURBINE COMBUSTION					
GAS TURBINE, CTG#1, NATURAL GAS, GENERAL ELECTRIC, MODEL S107H, ~~COMBINED CYCLE, WITH DRY~~ LOW NOx BURNERS, 2,597 MMBtu/HR (MAX RATING at 36 °F) WITH: A/N: 439481 Permit to Construct Issued: 06/02/06~~8/05/05~~ GENERATOR, ELECTRIC, SERVING CTG/HRSG GROUP 1, 405 MW GENERATOR, ~~#1~~, HEAT RECOVERY STEAM GENERATOR, ~~(~~HRSG~~)~~#1	D1 ~~B11~~ ~~B13~~	C17	NOx: MAJOR SOURCE**	**NOx**: 2.0 PPMV NATURAL GAS (4) [RULE 2005 BACT, RULE 1703]; NOx: ~~(COMMISSIONING)~~ 68.26 LBS/MMSCF (1) [RULE 2012]; NOx: 7.36 LBS/MMSCF NATURAL GAS (1) [RULE 2012]; NOx: ~~180~~ 123 PPMV NATURAL GAS (8) [40CFR 60 SUBPART GG]; **CO**: 3.0 PPMV NATURAL GAS (4) [RULE 1303 BACT]; CO: 2,000 PPMV NATURAL GAS (5) [RULE 407]; **VOC**: 2.0 PPMV NATURAL GAS (4) [RULE 1303 BACT]; VOC: 1.4 PPMV NATURAL GAS (7) [RULE 1303 OFFSETS **PM10**: ~~10.0~~7.5 LBS/HR NATURAL GAS (4) [RULE 1303-BACT]; **PM~~10~~**: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409]; PM~~10~~: 11 LBS/HR (5B) [RULE 475]; PM~~10~~: 0.01 GR/SCF NATURAL GAS (5A) [RULE 475];	A63.1, A99.1, A99.3, A195.1, A195.2, A195.3, A327.1, B61.1, D29.1, D29.2, D82.1, D82.2, E193.1, E193.2, E193.3, E193.6, I296.1, K40.1, K67.1

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
				SOx2: 150 PPMV NATURAL GAS (8) [40CFR 60 SUBPART GG]; SO2: (9) [40CFR 72 – ACID RAIN]; H_2S ~~LEVEL IN NATURAL GAS LESS THAN~~ 0.25 GRAINS/100 SCF NATURAL GAS (4) ~~PER 100 SCF~~ [RULE 1303-OFFSET]	
~~CO~~ OXIDIZER~~ATION~~ CATALYTIC~~ST~~, SERVING CTG/HRSG #1, ENGELHARD, ~~HEIGHT: 64'8", WIDTH: 33', CATALYST VOLUME: 290 FT^4, SERVING TURBINE/HRSG #1, WITH:~~ A/N: 439488 Permit to Construct Issued: 08/05/05	C17	C4, D1,			
SELECTIVE CATALYTIC REDUCTION, SERVING CTG/HRSG #1, HALDE~~O~~R-TOPSOE, ~~, HEIGHT: 64'8", WIDTH: 33', CATALYST VOLUME: 2,048 FT^3, SERVING TURBINE/HRSG #1~~, WITH: A/N:439488 Permit to Construct Issued: 08/05/05 AMMONIA INJECTION~~,~~ ~~INJECTION GRID~~	C4 ~~B18~~	C17, S19		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT]	A195.7, D12-1, D12.2, D12.3, D29.3, ~~D232.1,~~ E179.1, E179.2 E193.3, E193.1, E193.4
STACK, FOR CTG/HRSG #1 ~~SERVING TURBINE AND HRSG #1~~, HEIGHT: 195 FT; DIAMETER: 22 FT~~,~~ ~~WITH:~~ A/N: ~~439481~~456168 Permit to Construct Issued: ~~08/05/05~~06/02/06	S19	C4			
GAS TURBINE, CTG #2, NATURAL GAS, GENERAL ELECTRIC, MODEL S107H, ~~COMBINED CYCLE~~, WITH ~~DRY~~ LOW NOx BURNERS~~.~~ 2,597 MMBtu/HR (MAX RATING at 36 °F) WITH: A/N: ~~439485~~456169 Permit to Construct Issued: ~~08/05/05~~06/02/06	D2 ~~B20~~	~~C18~~ C24	NOx: MAJOR SOURCE**	**NOx**: 2.0 PPMV NATURAL GAS (4) [RULE 2005 BACT, RULE 1703]; NOx: ~~(COMMISSIONING)~~ 68.26 LBS/MMSCF (1) [RULE 2012]; NOx: 7.36 LBS/MMSCF NATURAL GAS (1) [RULE 2012]; NOx: ~~180~~ 123 PPMV NATURAL GAS (8)	A63.1, A99.1, A99.3, A195.1, A195.2, A195.3, A327.1, B61.1, D29.1, D29.2, D82.1,

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
GENERATOR, HEAT RECOVERY STEAM GENERATOR, HRSG #2 ~~GENERATOR, 405 MW~~ GENERATOR, GENERATOR #2, SERVING CTG/HRSG GROUP 2, 405 MW ~~HEAT RECOVERY STEAM GENERATOR (HRSG)~~	~~B22~~			[40CFR 60 SUBPART GG]; **CO**: 3.0 PPMV NATURAL GAS (4) [RULE 1303 BACT]; CO: 2,000 PPMV NATURAL GAS (5) [RULE 407]; **VOC**: 2.0 PPMV NATURAL GAS (4) [RULE 1303-BACT]; VOC: 1.4 PPMV NATURAL GAS (7) [RULE 1303-OFFSET] **PM10**: ~~10.0~~7.5 LBS/HR NATURAL GAS (4) [RULE 1303-BACT]; PM~~10~~: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409]; PM~~10~~: 11 LBS/HR NATURAL GAS (5B) [RULE 475]; PM~~10~~: 0.01 GRAINS/SCF NATURAL GAS (5A) [RULE 475]; **SOx**: 150 PPMV NATURAL GAS (8) [40CFR 60 SUBPART GG]; SO~~2~~X: (9) [40CFR 72 - ACID RAIN]; H2S ~~LEVEL IN NATURAL GAS LESS THAN~~ 0.25 GRAINS/100 SCF NATURAL GAS ~~PER 100 SCF~~ [RULE 1303-OFFSET]	D82.2, E193.1, E193.2, E193.3, E193.6 I296.2, K40.1, K67.1
~~CO~~ OXIDIZER~~ATION CATALYST~~, SERVING CTG/HRSG #2, ENGELHARD~~; HEIGHT: 64'8", WIDTH: 33', CATALYST VOLUME: 290 FT^3, SERVING TURBINE/HRSG #2, WITH~~; A/N: 439489 Permit to Construct Issued: 08/05/05	~~C18~~ C24	D2, C5			
SELECTIVE CATALYTIC REDUCTION, SERVING CTG/HRSG #2, HALDE~~OR~~-TOPSOE~~, HEIGHT: 64'8", WIDTH: 33', CATALYST VOLUME: 2,048 FT^3, SERVING~~	C5	~~C18~~ C24, S26		**NH3**: 5 PPMV NATURAL GAS (4) [RULE 1303-BACT]	A195.7, D12-1, D12.2, D12.3, D29.3, ~~D232.1,~~

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
~~TURBINE/HRSG #2,~~ WITH : A/N: 439489 Permit to Construct Issued: 08/05/05 AMMONIA INJECTION, ~~INJECTION GRID~~	~~B25~~				E179.1, E179.2 E193.3, E193.1, D192.4
STACK, FOR CTG/HRSG #2, ~~SERVING TURBINE AND HRSG #2~~, HEIGHT: 195 FT, DIAMETER: 22 FT A/N: 439485 Permit to Construct Issued: 08/05/05	S26	C5			
SYSTEM 2: AUXILIARY EQUIPMENT					
BOILER, AUXILIARY BOILER, NEBRASKA ~~BOILER~~, MODEL NS-F-76, NATURAL GAS ~~FIRED~~, WITH LOW NOX BURNER, ~~157~~ 152.12 MMBtu/HR, WITH A/N: ~~439492~~456170 Permit to Construct Issued: 6/02/06 BURNER, NATURAL GAS, TODD VARIFLAME, MODEL VII690VGXXXX, WITH LOW NOX BURNER, 152.12 MMBTU/HR~~BURNER, NATURAL GAS, TBD~~	D3	C6	NOx MAJOR SOURCE**	**NOx**: 7.0 PPMV NATURAL GAS (4) [RULE 2005 BACT, RULE1703]; NOx: 8.36 LBS/MMSCF NATURAL GAS (1) [RULE 2012]; **CO**: 50 PPMV NATURAL GAS (4) [RULE 1303 BACT]; CO: 400 PPMV NATURAL GAS (5A) [RULE 1146]; CO: 2,000 PPMV NATURAL GAS (5) [RULE 407]; **VOC**: 10 PPMV NATURAL GAS (4) [RULE 1303 BACT] **PM10**: 7.26 ~~LBS/HR~~MMSCF NATURAL GAS (4) [RULE 1303-BACT]; PM~~10~~: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409]; H2S: 0.25 GRAINS/100 SCF NATURAL GAS (4) [RULE 1303(a)(1) –BACT]	A63.2, A99.2, A195.4, A195.5, A195.6, B61.1, C1.2, D29.4, D82.3, D82.4, E193.1, E193.3, E193.6 I296.3, K40.2
SELECTIVE CATALYTIC REDUCTION, ~~#3,~~ FOR AUXILARY BOILER, PEERLESS~~, HEIGHT: 7'4", LENGTH: 4'3", WIDTH: 4', VOL: 115 FT^3, SERVING~~	C6	D3, S31		**NH3**: 5 PPMV NATURAL GAS (4) [RULE 1303-BACT]	A195.8, D12-1, D12.2, D12.3, D29.3, ~~D232.2~~,

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
~~AUXILIARY BOILER,~~ WITH: A/N:439493 Permit to Construct Issued 08/05/05 AMMONIA INJECTION, ~~INJECTION GRID~~	~~B25~~				E179.1, E179.2, E193.1, E193.3, E193.5
STACK, FOR AUXILIARY BOILER, HEIGHT: 100 FT; DIAMETER: 4 FT, ~~SERVING AUXILIARY BOILER, WITH:~~ A/N:~~439492~~456170 Permit to Construct Issued: 06/02/06	S31	C6			
~~IC~~ INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, LEAN BURN, EMERGENCY GENERATOR #1, DIESEL FUEL, CATERPILLAR, MODEL ~~G~~3516BDITA, 2,848 BHP, WITH PERMIT CATALYTIC/PARTICULATE FILTER, WITH: A/N: 439494 Permit to Construct Issued: 08/05/05 GENERATOR: 2,000 KW	D9		NOx: PROCESS UNIT**	**NOx**: 6.2 GRAM/BHP-HR DIESEL(4) [RULE 2005, RULE 1703]; NOx: 270 LBS/1000 GAL DIESEL (1) [RULE 2012]; **CO**: 0.045 GRAM/BHP-HR DIESEL (4) [RULE 1303]; **VOC**: 0.03 GRAM/BHP-HR DIESEL (4) [RULE 1303] **PM10**: 0.015 GRAM/BHP-HR DIESEL (4) [RULE 1303]	C1.1, D12.4, D12.5, K67.2, E193.1, E193.3, I296.4
~~IC~~ INTERAL COMBUSTION ENGINE, EMERGENCY POWER, LEAN BURN, EMERGENCY GENERATOR #2, DIESEL FUEL, ~~,~~ CATERPILLAR, MODEL ~~G~~3516BDITA, 2,848 BHP, WITH PERMIT CATALYTIC/PERTICULATE FILTER, WITH: A/N: 439495 Permit to Construct Issued: 08/05/05 GENERATOR: 2,000 KW	D10		NOx: PROCESS UNIT**	**NOx**: 6.2 GRAM/BHP-HR DIESEL (4) [RULE 2005, RULE 1703]; NOx: 270 LBS/1000 GAL DIESEL (1) [RULE 2012] **CO**: 0.045 GRAM/BHP-HR (4) [RULE 1303] **VOC**: 0.03 GRAM/BHP-HR DIESEL (4) [RULE 1303] **PM10**: 0.015 GRAM/BHP-HR DIESEL (4) [RULE 1303]	C1.1, D12.4, D12.5, K67.2, E193.1, E193.3, I296.4
EMERGENCY FIRE PUMP ENGINE, DIESEL FUEL, ~~IC~~ INTERNAL COMBUSTION ENGINE, LEAN BURN, CLARKE, MODEL JW6H-UF40,	D32		NOx: PROCESS UNIT**	**NOx**: 5.2 GRAM/BHP-HR DIESEL (4) [RULE 2005, RULE 1703]; NOx: 240 LBS/1000 GAL DIESEL (1) [RULE 2012];	C1.1, D12.4, D12.5, K67.2, E193.1,

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
300 BHP, ~~WITH:~~ A/N: 439496 Permit to Construct Issued: 08/05/05				**CO**: 0.3 GRAM/BHP-HR DIESEL (4) [RULE 1303] **VOC**: 0.2 GRAM/BHP-HR DIESEL (4) [RULE 1303] **PM10**: 0.1 GRAM/BHP-HR DIESEL (4) [RULE 1303]	E193.3, I296.5
Process 2: INORGANIC CHEMICAL STORAGE					
System 1: AMMONIA STORAGE TANKS					
STORAGE TANK, FIXED ROOF, #1, ~~WITH A VAPOR RETURN LINE,~~ 28% ~~WT~~ AQUEOUS AMMONIA ~~SOLUTION~~, 16,000 GALS, DIAMETER: 10 FT; LENGTH: 26 FT, ~~WITH:~~ A/N: 439497 Permit to Construct Issued: 08/05/05	D7				E144.1, C157.1, E193-1 E193.3,
STORAGE TANK, FIXED ROOF, #2, ~~WITH A VAPOR RETURN LINE,~~ 28% ~~WT~~ AQUEOUS AMMONIA ~~SOLUTION~~, 16,000 GALS, DIAMETER: 10 FT; LENGTH: 26 FT, ~~WITH:~~ A/N: 439498 Permit to Construct Issued: 08/05/05	D8				E144.1, C157.1, E193-1, E193.3,
PROCESS 3: RULE 219 EXEMPT EQUIPMENT ~~SUBJECT TO SOURCE SPECIFIC RULE~~					
System 1: RULE 219 EXEMPT EQUIPMENT					
RULE 219 EXEMPT EQUIPMENT, COATING OPERATION ~~EQUIPMENT, ARCHITECTURE COATINGS~~	E29			VOC: (9) [RULE 1113, ~~5-4-1999~~ 11-8-1996; RULE 1171, ~~6-13-1997~~ 11-7-2003]	K67.3
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT ~~USING SOLVENTS~~	E28			VOC: (9) [RULE 1171, ~~6-13-1997~~ 11-7-2003]	~~H23.1~~