Bay Area Air Quality Management District

939 Ellis Street
San Francisco, CA 94109
(415) 771-6000

Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:

Los Medanos Energy Center, LLC
Facility #B1866

Facility Address:
750 East Third Street
Pittsburg, CA 94565

Mailing Address:
PO Box 551
Pittsburg, CA 94565

Responsible Official	**Facility Contact**
~~William Ferguson~~, General Manager	~~David Zeiger~~, ~~Compliance~~ Plant Manager
Michael Sommer	Chris German
925-252-2075	925- 252-20~~66~~03

Type of Facility: Power Plant
Primary SIC: 4913

BAAQMD Engineering Division Contact:
~~Dennis Jang~~Brian Lusher

Product: Generation of Electricity

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on 5/2/01);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 8/1/01);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99); and
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03).

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit was issued on September 6, 2001, and expires on September 6, 2006. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than March 6, 2006 and no earlier than September 6, 2005. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** September 6, 2006**.** If the permit renewal has not been issued by September 6, 2006, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)

2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)

3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP

I. Standard Conditions

Volume II, Part 3, §4.11)

4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit that the permittee considers proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility.

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

I. Standard Conditions

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment that is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)

2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be September 6, 2001, to February 28, 2002. The report shall be submitted by March 31, 2002. Subsequent reports shall be for the following periods: March 1st through August 31st and September 1st through February 28th or 29th, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

I. Standard Conditions

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be September 1st to August 31st. The certification shall be submitted by September 30th of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

Director of the Air Division
USEPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

I. Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

J. Miscellaneous Conditions

I. Standard Conditions

1. The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

K. Accidental Release

This facility is subject to 40 CFR Part 68, Chemical Accident Prevention Provisions. The permit holder shall submit a risk management plan (RMP) by the date specified in §68.10. The permit holder shall also certify compliance with the requirements of Part 68 as part of the annual compliance certification, as required by Regulation 2, Rule 6. (40 CFR Part 68, Regulation 2, Rule 6)

L. Conditions to Implement Regulation 2, Rule 7, Acid Rain

1. Every year starting January 30, 2000, the permit holder shall hold one sulfur dioxide allowance on January 30 for each ton of sulfur dioxide emitted during the preceding year from January 1 through December 31. (MOP Volume II, Part 3, §4.9)
2. The equipment installed for the continuous monitoring of CO2 and NOx shall be maintained and operated in accordance with 40 CFR Parts 72 and 75. (Regulation 2-7, Acid Rain)
3. A written Quality Assurance program must be established in accordance with 40 CFR Part 75, Appendix B for NOx which includes, but is not limited to: procedures for daily calibration testing, quarterly linearity testing, record keeping and reporting implementation, and relative accuracy testing. (Regulation 2-7, Acid Rain)
4. The permit holder shall monitor SO2 emissions in accordance with 40 CFR Part 72 and 75. (Regulation 2-7, Acid Rain)
5. The permit holder shall submit quarterly Electronic Data Reports (EDRs) to EPA for S-1 and S-3, Turbines, and S-2 and S-4, Heat Recovery Steam Generators. These reports must be submitted within 30 days following the end of each calendar quarter and shall include all information required in § 75.64. (40 CFR Part 75)

II. EQUIPMENT

Table II A – Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
1	Gas Turbine (natural gas)	General Electric	Frame 7FA Model PG 7241	170 MW 1,929 MM BTU/hr
2	Heat Recovery Steam Generator (natural gas)			90 MW 333 MM BTU/hr
3	Gas Turbine (natural gas)	General Electric	Frame 7FA Model PG 7241	170 MW 1,929 MM BTU/hr
4	Heat Recovery Steam Generator (natural gas)			90 MW 333 MM BTU/hr
5	Auxiliary Boiler (natural gas)	Nebraska	N25-8/5-126	320 MM BTU/hr (provides backup steam only, not used to generate electricity)
6	Diesel Fire Pump Engine	Cummins	6CFA8.2-F3	300 bhp 2.1 MMbtu/hr 504.5 cubic inch displacement
7	Natural-Gas Fired Emergency Generator	Waukesha, Turbocharged, Intercooled, Lean-Burn Internal Combustion Engine	Model VGF 36GL	925 bhp 7.1 MMbtu/hr 2197 cubic inch displacement

II. Equipment

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1	Selective Catalytic Reduction System	S-1, S-2	BAAQMD Condition #16676, part 21b	None	2.5 ppmv NOx @ 15% O2, dry, 1-hr average
2	Oxidation Catalyst	S-1, S-2	BAAQMD Condition #16676, part 21d	None	6 ppmv CO @ 15% O2, dry, 3-hr average
3	Selective Catalytic Reduction System	S-3, S-4	BAAQMD Condition #16676, part 21b	None	2.5 ppmv NOx @ 15% O2, dry, 1-hr average
4	Oxidation Catalyst	S-3, S-4	BAAQMD Condition #16676, part 21d	None	6 ppmv CO @ 15% O2, dry, 3-hr average
5	Selective Catalytic Reduction System	S-5	BAAQMD Condition #16676, part 29	None	9 ppmv NOx @ 3% O2, dry, 3-hr average

Table II C – Significant Sources

The following source is exempt from the requirement to obtain an authority to construct and permit to operate, but is defined as a significant source pursuant to BAAQMD Regulation 2-6-239.

S-#	Description	Make or Type	Model	Capacity
8	Cooling Tower			8 cell 110,600 gpm

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements would not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit. This section also contains provisions that may apply to temporary sources.

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is on EPA Region 9's website. The address is included at the end of this permit.

NOTE:

There are differences between the current BAAQMD rules and the versions of the rules in the SIP. All sources must comply with both versions of the rule until US EPA has reviewed and approved the District's revision of the regulation.

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/2/01)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)	N
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	Y
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (3/6/02)	N
SIP Regulation 5	Open Burning (9/4/98)	Y

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds – Solvent Cleaning Operations (8/16/02)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/9/94)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y
BAAQMD Condition 16676, Part 54	Implementation of BAAQMD Regulation 4, Air Pollution Episode Plan	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors.
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date.

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is included at the end of this permit. All other text may be found in the regulations themselves.

Table IV – A
Source-specific Applicable Requirements
S-1, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (11/3/93)**		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.1	Monitoring of NOx, CO_2, or O_2	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522.9	recordkeeping requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.1	Parametric monitor periods of non operation	Y	
1-523.2	Limits on periods of non operation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
1-602	Area and Continuous Emission Monitoring Requirements	Y	
SIP Regulation 1	**General Provisions and Definitions (6/28/99)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Monitor excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 3	**Inorganic Gaseous Pollutants, Nitrogen Oxides From Heat Transfer Operations (3/17/82)**		
9-3-303	New or Modified Heat Transfer Operation Limits	N	
BAAQMD Regulation 9, Rule 9	**Inorganic Gaseous Pollutants-Nitrogen Oxides from Stationary Gas Turbines (9/21/94)**		
9-9-113	Exemption – Inspection/Maintenance	Y	
9-9-114	Exemption – Start-Up/Shutdown	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-9-301	Emission Limits, General	Y	
9-9-301.3	Emission Limits- Turbines Rated ≥ 10 MW w/SCR	Y	
9-9-501	Monitoring and recordkeeping requirements	Y	
BAAQMD Manual of Procedures, Volume V	**Continuous Emission Monitoring Policy and Procedures (1/20/82)**	Y	
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	**General Provisions**	Y	
60.7(a)	Written notification	Y	
60.7(b)	Records	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.19	General notification and reporting requirements	Y	
Subpart Da	**Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced after September 18, 1978 (6/14/79)**	Y	
60.42a(a)(1)	Particulate Limit	Y	
60.42a(b)	Opacity Limit	Y	
60.43a(b)(2)	SO2 limit	Y	
60.43a(g)	Averaging (24-hour for Bay Area)	Y	
60.44a(d)(1)	NOX limit-lbs/MW-hr	Y	
60.46a(b)	Compliance, NOX limitation	Y	
60.46a(c)	Applicability of Limits	Y	
60.46a(e)	Compliance with SO2 limit	Y	
60.46a(g)	Averaging for compliance (24-hour basis)	Y	
60.46a(k)	Compliance provisions for duct burners subject to Section 60.44a(a)(1)	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.47a(o)	Exemption from requirements for continuous NOx monitor, wattmeter, meters to measure steam flow, temperature, and pressure; and continuous meter for flow of exhaust gases	Y	
60.48a	Compliance determination procedures and methods	Y	
60.49a(a)	Performance test reports	Y	
60.49a(d)	Exceedances during emergency conditions	Y	
60.49a(i)	Reports to Administrator (Also required to District)	Y	
Subpart GG	**Standards of Performance for Stationary Gas Turbines (1/27/82)**		
60.332(a)(1)	NOx limit	Y	
60.332(b)	NOx limit in 60.332(a)(1)	Y	
60.333(b)	Performance Standards, SO2	Y	
60.334(b)	CEM requirements	Y	
60.334(c)	CEM monitoring option	Y	
60.334(h)(2)	Exemption from fuel nitrogen monitoring	Y	
60.334(h)(3)(i)	Current, valid purchase contract, tariff sheet or transportation contract	Y	
60.334(h)(3)(ii)	Representative fuel sampling data	Y	
60.334(j)(1)	Reports of excess NOx emissions	Y	
60.334(j)(5)	Deadline for excess emission reports	Y	
60.335	Test Methods and Procedures	Y	
60.335(a)	Performance tests as required by 40 CFR 60.8	Y	
60.335(b)	Performance tests for NOx	Y	
60.335(b)(1)	ISO correction	Y	
60.335(b)(2)	Testing at various loads	Y	
60.335(b)(3)	Optional measurement after duct burner	Y	
60.335(c)(1)	Optional method to adjust NOx emission level	Y	
40 CFR 60 Appendix B	**Performance Specifications**	Y	
Performance Specification 2	Specifications and test procedures for SO2 and NOx continuous emission monitoring systems in stationary sources	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Performance Specification 3	Specifications and test procedures for O2 and CO2 continuous emission monitoring systems	Y	
40 CFR 60 Appendix F	**Quality Assurance Procedures**		
Procedure 1	Quality assurance requirements for gas continuous emission monitoring systems used for compliance determination	Y	
40 CFR Part 72	**Title IV – Acid Rain Program**	Y	
40 CFR Part 75	**Code of Federal Regulations, Continuous Emissions Monitoring**	Y	
BAAQMD Condition #16676			
Definitions	Definitions	Y	
part 14	Requirement for combustion of natural gas with a maximum sulfur content of 1 gr/100 scf (BACT for SO_2 and PM_{10})	Y	
part 15	Hourly heat input limit (PSD for NO_x)	Y	
part 16	Daily heat input limit (PSD for PM_{10})	Y	
part 17	Annual heat input limit (Offsets)	Y	
part 19	Oxidizing catalyst and SCR requirement (BACT for NO_x and CO)	Y	
part 21	Emission limits (BACT, PSD, and Toxic Risk Management Policy)	Y	
part 21a	Hourly and heat-input rate NOx limits (PSD for NOx)	Y	
part 21b	NOx concentration limit (BACT for NO_x)	Y	
part 21c	Hourly and heat-input rate CO limits (PSD for CO)	Y	
part 21d	CO concentration limit (BACT for CO)	Y	
part 21e	Ammonia concentration limit and monitoring (TRMP for NH3)	N	
part 21f	Hourly and heat-input rate POC limits (BACT for POC)	Y	
part 21g	Hourly and heat-input rate SO2 limits (BACT for SO2)	Y	
part 21h	Hourly and heat-input rate PM10 limits (BACT for PM10)	Y	
part 23	Limits during startup, shutdown, steam turbine cold start-up, or combustor tuning (PSD)	Y	
part 24	Turbines may not be in startup mode simultaneously	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 24	Limit on operation to support steam turbine cold start-up or combustor tuning (PSD)	Y	
part 30	Facility daily heat input limit (PSD, CEC Offsets)	Y	
part 31	Facility annual heat input limit (Offsets)	Y	
part 32	Facility daily emission limits (CEQA, PSD, BACT)	Y	
part 33	Facility annual emission limits (Offsets, PSD, Cumulative Increase)	Y	
part 34	Facility annual emission limits for toxic air contaminants (TRMP)	N	
part 35	Monitoring (1-520.1, 9-9-501, BACT, Offsets, NSPS, PSD, Cumulative Increase)	Y	
part 36	Calculation of emissions and recordkeeping (Offsets, PSD, Cumulative Increase)	Y	
part 37	Calculation of emissions and recordkeeping for toxic air contaminants (TRMP)	N	
part 38	Ammonia source test (TRMP)	N	
part 39	Source to assure compliance with part 21a, b, c, d and f (BACT, offsets)	Y	
part 41	District review of source test procedures (BACT)	Y	
part 42	Initial and biennial source tests for toxic air contaminants (TRMP)	N	
part 43	Submittal of reports (2-6-502)	Y	
part 44	Retention of records for five years (2-6-502)	Y	
part 45	Notification of violations to District (2-1-403)	Y	
part 46	Stack heights (PSD, TRMP)	Y	
part 47	Sampling ports and platforms (1-501)	Y	
part 55	Records of steam turbine cold start-ups and combustor tuning (PSD)	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/2/01)**		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.1	Monitoring of NOx, CO_2, or O_2	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
1-602	Area and Continuous Emission Monitoring Requirements	Y	
SIP Regulation 1	**General Provisions and Definitions (6/28/99)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Monitor excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 2, Rule 1	**Regulation 2, Rule 1 - Permits, General Requirements (5/2/01)**		

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Table IV – B
Source-specific Applicable Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-1-501	Monitors	Y	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 3	**Inorganic Gaseous Pollutants – Nitrogen Oxides from Heat Transfer Operations (3/17/82)**		
9-3-303	Nitrogen oxide emission limitation	Y	
BAAQMD Manual of Procedures, Volume V	**Continuous Emission Monitoring Policy and Procedures (1/20/82)**		
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	**General Provisions**	Y	
60.4(b)	Reports to EPA and District	Y	
60.7	Notification and record keeping	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with standards and maintenance requirement	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.19	General notification and reporting requirements	Y	
Subpart Da	**Standards of Performance for Electric Utility Steam Generating**	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Units for Which Construction Is Commenced after September 18, 1978 (6/14/79)		
60.42a(a)(1)	Particulate Limit	Y	
60.42a(b)	Opacity Limit	Y	
60.43a(b)(2)	SO2 limit	Y	
60.43a(g)	Averaging (24-hour for Bay Area)	Y	
60.44a(d)(1)	NOX limit-lbs/MW-hr	Y	
60.46a(b)	Compliance, NOX limitation	Y	
60.46a(c)	Applicability of Limits	Y	
60.46a(e)	Compliance with SO2 limit	Y	
60.46a(g)	Averaging for compliance (24-hour basis)	Y	
60.46a(k)	Compliance provisions for duct burners subject to Section 60.44a(a)(1)	Y	
60.47a(o)	Exemption from requirements for continuous NOx monitor, wattmeter, meters to measure steam flow, temperature, and pressure; and continuous meter for flow of exhaust gases	Y	
60.48a	Compliance determination procedures and methods	Y	
60.49a(a)	Performance test reports	Y	
60.49a(d)	Exceedances during emergency conditions	Y	
60.49a(i)	Reports to Administrator (Also required to District)	Y	
Subpart GG	**Standards of Performance for Stationary Gas Turbines (1/27/82)**		
60.332(a)(1)	NOx limit	Y	
60.332(b)	NOx limit in 60.332(a)(1)	Y	
60.333(b)	Performance Standards, SO2	Y	
60.334(b)	CEM requirements	Y	
60.334(c)	CEM monitoring option	Y	
60.334(h)(2)	Exemption from fuel nitrogen monitoring	Y	
60.334(h)(3)(i)	Current, valid purchase contract, tariff sheet or transportation contract	Y	
60.334(h)(3)(ii)	Representative fuel sampling data	Y	
60.334(j)(1)	Reports of excess NOx emissions	Y	
60.334(j)(5)	Deadline for excess emission reports	Y	
60.335	Test Methods and Procedures	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.335(a)	Performance tests as required by 40 CFR 60.8	Y	
60.335(b)	Performance tests for NOx	Y	
60.335(b)(1)	ISO correction	Y	
60.335(b)(2)	Testing at various loads	Y	
60.335(b)(3)	Optional measurement after duct burner	Y	
60.335(c)(1)	Optional method to adjust NOx emission level	Y	
40 CFR 60 Appendix B	**Performance Specifications**	Y	
Performance Specification 2	Specifications and test procedures for SO2 and NOx continuous emission monitoring systems in stationary sources	Y	
Performance Specification 3	Specifications and test procedures for O2 and CO2 continuous emission monitoring systems	Y	
40 CFR 60 Appendix F	**Quality Assurance Procedures**		
Procedure 1	Quality assurance requirements for gas continuous emission monitoring systems used for compliance determination	Y	
40 CFR Part 72	**Title IV – Acid Rain Program**	Y	
40 CFR Part 75	**Code of Federal Regulations, Continuous Emissions Monitoring**	Y	
BAAQMD Condition #16676			
Definitions	Definitions	Y	
part 14	Requirement for combustion of natural gas with a maximum sulfur content of 1 gr/100 scf (BACT for SO_2 and PM_{10})	Y	
part 15	Hourly heat input limit (PSD for NO_x)	Y	
part 16	Daily heat input limit (PSD for PM_{10})	Y	
part 17	Annual heat input limit (Offsets)	Y	
part 18	Duct burners shall not be fired unless turbines are in operation (BACT for NO_x, CO, POC)	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 19	Oxidizing catalyst and SCR requirement (BACT for NO_x and CO)	Y	
part 21	Emission limits (BACT, PSD, and Toxic Risk Management Policy)	Y	
part 21a	Hourly and heat input rate NOx limits (PSD for NOx)	Y	
part 21b	NOx concentration limit (BACT for NO_x)	Y	
part 21c	Hourly and heat-input rate CO limits (PSD for CO)	Y	
part 21d	CO concentration limit (BACT for CO)	Y	
part 21e	Ammonia concentration limit and monitoring (TRMP for NH3)	N	
part 21f	Hourly and heat-input rate POC limits (BACT for POC)	Y	
part 21g	Hourly and heat-input rate SO2 limits (BACT for SO2)	Y	
part 21h	Hourly and heat-input rate PM10 limits (BACT for PM10)	Y	
part 23	Limits during startup or shutdown (PSD)	Y	
part 24	Turbines may not be in startup mode simultaneously	Y	
part 30	Facility daily heat input limit (PSD, CEC Offsets)	Y	
part 31	Facility annual heat input limit (Offsets)	Y	
part 32	Facility daily emission limits (CEQA, PSD, BACT)	Y	
part 33	Facility annual emission limits (Offsets, PSD, Cumulative Increase)	Y	
part 34	Facility annual emission limits for toxic air contaminants (TRMP)	N	
part 35	Monitoring (1-520.1, 9-9-501, BACT, Offsets, NSPS, PSD, Cumulative Increase)	Y	
part 36	Calculation of emissions and recordkeeping (Offsets, PSD, Cumulative Increase)	Y	
part 37	Calculation of emissions and recordkeeping for toxic air contaminants (TRMP)	N	
part 38	Ammonia source test (TRMP)	N	
part 39	Source to assure compliance with part 21a, b, c, d and f (BACT, offsets)	Y	
part 41	District review of source test procedures (BACT)	Y	
part 42	Initial and biennial source tests for toxic air contaminants (TRMP)	N	
part 43	Submittal of reports (2-6-502)	Y	
part 44	Retention of records for five years (2-6-502)	Y	
part 45	Notification of violations to District (2-1-403)	Y	
part 46	Stack heights (PSD, TRMP)	Y	
part 47	Sampling ports and platforms (1-501)	Y	

IV. Source Specific Applicable Requirements

IV. Source Specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-3, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (11/3/93)**		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.1	Monitoring of NOx, CO_2, or O_2	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.1	Parametric monitor periods of non operation	Y	
1-523.2	Limits on periods of non operation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
1-602	Area and Continuous Emission Monitoring Requirements	Y	
SIP Regulation 1	**General Provisions and Definitions (6/28/99)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Monitor excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	

IV. Source Specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-3, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 3	**Inorganic Gaseous Pollutants, Nitrogen Oxides From Heat Transfer Operations (3/17/82)**		
9-3-303	New or Modified Heat Transfer Operation Limits	N	
BAAQMD Regulation 9, Rule 9	**Inorganic Gaseous Pollutants-Nitrogen Oxides from Stationary Gas Turbines (9/21/94)**		
9-9-113	Exemption – Inspection/Maintenance	Y	
9-9-114	Exemption – Start-Up/Shutdown	Y	
9-9-301	Emission Limits, General	Y	
9-9-301.3	Emission Limits- Turbines Rated ≥ 10 MW w/SCR	Y	
9-9-501	Monitoring and recordkeeping requirements	Y	
BAAQMD Manual of Procedures, Volume V	**Continuous Emission Monitoring Policy and Procedures (1/20/82)**	Y	
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	**General Provisions**	Y	
60.7(a)	Written notification	Y	
60.7(b)	Records	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.19	General notification and reporting requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-3, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Subpart Da	**Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced after September 18, 1978 (6/14/79)**	Y	
60.42a(a)(1)	Particulate Limit	Y	
60.42a(b)	Opacity Limit	Y	
60.43a(b)(2)	SO2 limit	Y	
60.43a(g)	Averaging (24-hour for Bay Area)	Y	
60.44a(d)(1)	NOX limit-lbs/MW-hr	Y	
60.46a(b)	Compliance, NOX limitation	Y	
60.46a(c)	Applicability of Limits	Y	
60.46a(e)	Compliance with SO2 limit	Y	
60.46a(g)	Averaging for compliance (24-hour basis)	Y	
60.46a(k)	Compliance provisions for duct burners subject to Section 60.44a(a)(1)	Y	
60.47a(o)	Exemption from requirements for continuous NOx monitor, wattmeter, meters to measure steam flow, temperature, and pressure; and continuous meter for flow of exhaust gases	Y	
60.48a	Compliance determination procedures and methods	Y	
60.49a(a)	Performance test reports	Y	
60.49a(d)	Exceedances during emergency conditions	Y	
60.49a(i)	Reports to Administrator (Also required to District)	Y	
Subpart GG	**Standards of Performance for Stationary Gas Turbines (1/27/82)**		
60.332(a)(1)	NOx limit	Y	
60.332(b)	NOx limit in 60.332(a)(1)	Y	
60.333(b)	Performance Standards, SO2	Y	
60.334(b)	CEM requirements	Y	
60.334(c)	CEM monitoring option	Y	
60.334(h)(2)	Exemption from fuel nitrogen monitoring	Y	
60.334(h)(3)(i)	Current, valid purchase contract, tariff sheet or transportation contract	Y	
60.334(h)(3)(ii)	Representative fuel sampling data	Y	
60.334(j)(1)	Reports of excess NOx emissions	Y	
60.334(j)(5)	Deadline for excess emission reports	Y	

IV. Source Specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-3, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.335	Test Methods and Procedures	Y	
60.335(a)	Performance tests as required by 40 CFR 60.8	Y	
60.335(b)	Performance tests for NOx	Y	
60.335(b)(1)	ISO correction	Y	
60.335(b)(2)	Testing at various loads	Y	
60.335(b)(3)	Optional measurement after duct burner	Y	
60.335(c)(1)	Optional method to adjust NOx emission level	Y	
40 CFR 60 Appendix B	**Performance Specifications**	Y	
Performance Specification 2	Specifications and test procedures for SO2 and NOx continuous emission monitoring systems in stationary sources	Y	
Performance Specification 3	Specifications and test procedures for O2 and CO2 continuous emission monitoring systems	Y	
40 CFR 60 Appendix F	**Quality Assurance Procedures**		
Procedure 1	Quality assurance requirements for gas continuous emission monitoring systems used for compliance determination	Y	
40 CFR Part 72	**Title IV – Acid Rain Program**	Y	
40 CFR Part 75	**Code of Federal Regulations, Continuous Emissions Monitoring**	Y	
BAAQMD Condition #16676			
Definitions	Definitions	Y	
part 14	Requirement for combustion of natural gas with a maximum sulfur content of 1 gr/100 scf (BACT for SO_2 and PM_{10})	Y	
part 15	Hourly heat input limit (PSD for NO_x)	Y	
part 16	Daily heat input limit (PSD for PM_{10})	Y	
part 17	Annual heat input limit (Offsets)	Y	
part 19	Oxidizing catalyst and SCR requirement (BACT for NO_x and CO)	Y	

IV. Source Specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-3, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 21	Emission limits (BACT, PSD, and Toxic Risk Management Policy)	Y	
part 21a	Hourly and heat-input rate NOx limits (PSD for NOx)	Y	
part 21b	NOx concentration limit (BACT for NO_x)	Y	
part 21c	Hourly and heat-input rate CO limits (PSD for CO)	Y	
part 21d	CO concentration limit (BACT for CO)	Y	
part 21e	Ammonia concentration limit and monitoring (TRMP for NH3)	N	
part 21f	Hourly and heat-input rate POC limits (BACT for POC)	Y	
part 21g	Hourly and heat-input rate SO2 limits (BACT for SO2)	Y	
part 21h	Hourly and heat-input rate PM10 limits (BACT for PM10)	Y	
part 23	Limits during startup, shutdown, steam turbine cold start-up, or combustor tuning (PSD)	Y	
part 24	Turbines may not be in startup mode simultaneously	Y	
part 24	Limit on operation to support steam turbine cold start-up or combustor tuning (PSD)	Y	
part 30	Facility daily heat input limit (PSD, CEC Offsets)	Y	
part 31	Facility annual heat input limit (Offsets)	Y	
part 32	Facility daily emission limits (CEQA, PSD, BACT)	Y	
part 33	Facility annual emission limits (Offsets, PSD, Cumulative Increase)	Y	
part 34	Facility annual emission limits for toxic air contaminants (TRMP)	Y	
part 35	Monitoring (1-520.1, 9-9-501, BACT, Offsets, NSPS, PSD, Cumulative Increase)	Y	
part 36	Calculation of emissions and recordkeeping (Offsets, PSD, Cumulative Increase)	Y	
part 37	Calculation of emissions and recordkeeping for toxic air contaminants (TRMP)	N	
part 38	Ammonia source test (TRMP)	N	
part 39	Source to assure compliance with part 21a, b, c, d and f (BACT, offsets)	Y	
part 41	District review of source test procedures (BACT)	Y	
part 42	Initial and biennial source tests for toxic air contaminants (TRMP)	N	
part 43	Submittal of reports (2-6-502)	Y	
part 44	Retention of records for five years (2-6-502)	Y	
part 45	Notification of violations to District (2-1-403)	Y	
part 46	Stack heights (PSD, TRMP)	Y	

IV. Source Specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-3, GAS TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 47	Sampling ports and platforms (1-501)	Y	
part 55	Records of steam turbine cold start-ups and combustor tuning (PSD)	Y	

Table IV – D
Source-specific Applicable Requirements
S-4, HEAT RECOVERY STEAM GENERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/2/01)**		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.1	Monitoring of NOx, CO_2, or O_2	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	Y	
1-523.1	Parametric monitor periods of non operation	Y	
1-523.2	Limits on periods of non operation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	

IV. Source Specific Applicable Requirements

Table IV – D
Source-specific Applicable Requirements
S-4, HEAT RECOVERY STEAM GENERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523.5	Maintenance and calibration	N	
1-602	Area and Continuous Emission Monitoring Requirements	Y	
SIP Regulation 1	**General Provisions and Definitions (6/28/99)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Monitor excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 2, Rule 1	**Regulation 2, Rule 1 - Permits, General Requirements (5/2/01)**		
2-1-501	Monitors	Y	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 3	**Inorganic Gaseous Pollutants – Nitrogen Oxides from Heat Transfer Operations (3/17/82)**		
9-3-303	Nitrogen oxide emission limitation	Y	
BAAQMD Manual of Procedures, Volume V	**Continuous Emission Monitoring Policy and Procedures (1/20/82)**		
40 CFR 60	**Standards of Performance for New Stationary Sources**	Y	

IV. Source Specific Applicable Requirements

Table IV – D
Source-specific Applicable Requirements
S-4, HEAT RECOVERY STEAM GENERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	(12/23/71)		
Subpart A	**General Provisions**	Y	
60.4(b)	Reports to EPA and District	Y	
60.7	Notification and record keeping	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with standards and maintenance requirement	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.19	General notification and reporting requirements	Y	
Subpart Da	**Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced after September 18, 1978 (6/14/79)**	Y	
60.42a(a)(1)	Particulate Limit	Y	
60.42a(b)	Opacity Limit	Y	
60.43a(b)(2)	SO2 limit	Y	
60.43a(g)	Averaging (24-hour for Bay Area)	Y	
60.44a(d)(1)	NOx limit-lbs/MW-hr	Y	
60.46a(b)	Compliance, NOx limitation	Y	
60.46a(c)	Applicability of Limits	Y	
60.46a(e)	Compliance with SO2 limit	Y	
60.46a(g)	Averaging for compliance (24-hour basis)	Y	
60.46a(k)	Compliance provisions for duct burners subject to Section 60.44a(a)(1)	Y	
60.47a(o)	Exemption from requirements for continuous NOx monitor, wattmeter, meters to measure steam flow, temperature, and pressure; and continuous meter for flow of exhaust gases	Y	
60.48a	Compliance determination procedures and methods	Y	
60.49a(a)	Performance test reports	Y	
60.49a(d)	Exceedances of SO2 limits during emergency conditions	Y	
60.49a(i)	Reports to Administrator (Also required to District)	Y	
Subpart GG	**Standards of Performance for Stationary Gas Turbines (1/27/82)**		
60.332(a)(1)	NOx limit	Y	

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Table IV – D
Source-specific Applicable Requirements
S-4, HEAT RECOVERY STEAM GENERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.332(b)	NOx limit in 60.332(a)(1)	Y	
60.333(b)	Performance Standards, SO2	Y	
60.334(b)	CEM requirements	Y	
60.334(c)	CEM monitoring option	Y	
60.334(h)(2)	Exemption from fuel nitrogen monitoring	Y	
60.334(h)(3)(i)	Current, valid purchase contract, tariff sheet or transportation contract	Y	
60.334(h)(3)(ii)	Representative fuel sampling data	Y	
60.334(j)(1)	Reports of excess NOx emissions	Y	
60.334(j)(5)	Deadline for excess emission reports	Y	
60.335	Test Methods and Procedures	Y	
60.335(a)	Performance tests as required by 40 CFR 60.8	Y	
60.335(b)	Performance tests for NOx	Y	
60.335(b)(1)	ISO correction	Y	
60.335(b)(2)	Testing at various loads	Y	
60.335(b)(3)	Optional measurement after duct burner	Y	
60.335(c)(1)	Optional method to adjust NOx emission level	Y	
40 CFR 60 Appendix B	**Performance Specifications**	Y	
Performance Specification 2	Specifications and test procedures for SO2 and NOx continuous emission monitoring systems in stationary sources	Y	
Performance Specification 3	Specifications and test procedures for O2 and CO2 continuous emission monitoring systems	Y	
40 CFR 60 Appendix F	**Quality Assurance Procedures**		
Procedure 1	Quality assurance requirements for gas continuous emission monitoring systems used for compliance determination	Y	
40 CFR Part 72	**Title IV – Acid Rain Program**	Y	
40 CFR	**Code of Federal Regulations, Continuous Emissions Monitoring**	Y	

IV. Source Specific Applicable Requirements

Table IV – D
Source-specific Applicable Requirements
S-4, HEAT RECOVERY STEAM GENERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 75			
BAAQMD Condition #16676			
Definitions	Definitions	Y	
part 14	Requirement for combustion of natural gas with a maximum sulfur content of 1 gr/100 scf (BACT for SO_2 and PM_{10})	Y	
part 15	Hourly heat input limit (PSD for NO_x)	Y	
part 16	Daily heat input limit (PSD for PM_{10})	Y	
part 17	Annual heat input limit (Offsets)	Y	
part 18	Duct burners shall not be fired unless turbines are in operation (BACT for NO_x, CO, POC)	Y	
part 19	Oxidizing catalyst and SCR requirement (BACT for NO_x and CO)	Y	
part 21	Emission limits (BACT, PSD, and Toxic Risk Management Policy)	Y	
part 21a	Hourly and heat-input rate NOx limits (PSD for NOx)	Y	
part 21b	NOx concentration limit (BACT for NO_x)	Y	
part 21c	Hourly and heat-input rate CO limits (PSD for CO)	Y	
part 21d	CO concentration limit (BACT for CO)	Y	
part 21e	Ammonia concentration limit and monitoring (TRMP for NH3)	N	
part 21f	Hourly and heat-input rate POC limits (BACT for POC)	Y	
part 21g	Hourly and heat-input rate SO2 limits (BACT for SO2)	Y	
part 21h	Hourly and heat-input rate PM10 limits (BACT for PM10)	Y	
part 23	Limits during startup or shutdown (PSD)	Y	
part 24	Turbines may not be in startup mode simultaneously	Y	
part 30	Facility daily heat input limit (PSD, CEC Offsets)	Y	
part 31	Facility annual heat input limit (Offsets)	Y	
part 32	Facility daily emission limits (CEQA, PSD, BACT)	Y	
part 33	Facility annual emission limits (Offsets, PSD, Cumulative Increase)	Y	
part 34	Facility annual emission limits for toxic air contaminants (TRMP)	N	
part 35	Monitoring (1-520.1, 9-9-501, BACT, Offsets, NSPS, PSD, Cumulative Increase)	Y	
part 36	Calculation of emissions and recordkeeping (Offsets, PSD, Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV – D
Source-specific Applicable Requirements
S-4, HEAT RECOVERY STEAM GENERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 37	Calculation of emissions and recordkeeping for toxic air contaminants (TRMP)	N	
part 38	Ammonia source test (TRMP)	N	
part 39	Source to assure compliance with part 21a, b, c, d and f (BACT, offsets)	Y	
part 41	District review of source test procedures (BACT)	Y	
part 42	Initial and biennial source tests for toxic air contaminants (TRMP)	N	
part 43	Submittal of reports (2-6-502)	Y	
part 44	Retention of records for five years (2-6-502)	Y	
part 45	Notification of violations to District (2-1-403)	Y	
part 46	Stack heights (PSD, TRMP)	Y	
part 47	Sampling ports and platforms (1-501)	Y	

Table IV – E
Source-specific Applicable Requirements
S-5, AUXILIARY BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (11/3/93)**		
1-520	Continuous Emission Monitoring	Y	
1-520.1	Monitoring of NOx, CO_2 or O_2	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	Y	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	

IV. Source Specific Applicable Requirements

Table IV – E
Source-specific Applicable Requirements
S-5, AUXILIARY BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 3	**Inorganic Gaseous Pollutants, Nitrogen Oxides From Heat Transfer Operations (3/17/82)**		
9-3-303	New or Modified Heat Transfer Operation Limits	N	
BAAQMD Regulation 9, Rule 7	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (9/15/93)**		
9-7-301	Emission Limits-Gaseous Fuel	Y	
9-7-301.1	Emission Limits-NOx	Y	
9-7-301.2	Emission Limits-CO	Y	
9-7-503	Records	Y	
9-7-503.4	Source test records	Y	
BAAQMD Manual of Procedures, Volume V	**Continuous Emission Monitoring Policy and Procedures (1/20/82)**		
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	**General Provisions**	Y	
60.4(b)	Reports to EPA and District	Y	
60.7	Notification and record keeping	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with standards and maintenance requirement	Y	

IV. Source Specific Applicable Requirements

Table IV – E
Source-specific Applicable Requirements
S-5, AUXILIARY BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.19	General notification and reporting requirements	Y	
Subpart Db	**Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (12/16/87)**	Y	
60.44b(a)(4)	NOx Emission Limit	Y	
60.44b(h)	NOx limit applicable at all times	Y	
60.44b(i)	Compliance: 24-hr day basis	Y	
60.44b(l)(1)	NOx Emission Limit	Y	
60.46b(c)	Compliance with NOx limit	Y	
60.46b(a)	NOx limits apply at all times	Y	
60.46b(c)	Performance test for NOx	Y	
60.46b(e)	Performance test for NOx	Y	
60.46b(e)(1)	Performance test for NOx (24-hr basis)	Y	
60.46b(e)(3)	Averaging time for compliance (24-hr basis)	Y	
60.46b(g)	Initial determination of maximum capacity	Y	
60.46b(h)(1)	Initial performance test for NOx at maximum capacity	Y	
60.46b(h)(2)	Periodic tests for NOx at maximum capacity	Y	
60.46b(h)(i)	Reports for 60.46b(g)	Y	
60.48b(f)	Standby Monitoring	Y	
60.49b(d)	Fuel records	Y	
60.49b(g)(5)	Records for each day of operation	Y	
60.49b(h)(2)	Excess emission reports	Y	
60.49b(o)	Records retention for two years	Y	
BAAQMD Condition #16676			
Definitions	Definitions	Y	
part 25	Requirement for combustion of natural gas with a maximum sulfur content of 1 gr/100 scf (BACT for SO_2 and PM_{10})	Y	
part 26	Hourly heat input limit (Cumulative Increase)	Y	
part 27	Annual heat input limit (Cumulative Increase)	Y	
part 28	Emission limits (BACT, PSD)	Y	

IV. Source Specific Applicable Requirements

Table IV – E
Source-specific Applicable Requirements
S-5, AUXILIARY BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 28a	Hourly NOx limits (PSD for NOx)	Y	
part 28b	NOx concentration limit (BACT for NOx)	Y	
part 28c	Hourly CO limit (PSD for CO)	Y	
part 28d	CO concentration limit (BACT for CO)	Y	
part 28e	Hourly POC limit (BACT for POC)	Y	
part 28f	Hourly SO2 limit (BACT for SO2)	Y	
part 28g	Hourly PM10 limit (BACT for PM10)	Y	
part 28h	NH3 concentration limit (TRMP)	N	
part 29	Requirement for design for future installation of Oxidizing Catalyst (BACT for CO)	Y	
Part 29	Requirement for SCR system (BACT for NOx)	Y	
part 30	Facility daily heat input limit (PSD, CEC Offsets)	Y	
part 31	Facility annual heat input limit (Offsets)	Y	
part 32	Facility daily emission limits (CEQA, PSD, BACT)	Y	
part 33	Facility annual emission limits (Offsets, PSD, Cumulative Increase)	Y	
part 34	Facility annual emission limits for toxic air contaminants (TRMP)	N	
part 35	Monitoring (1-520.1, 9-9-501, BACT, Offsets, NSPS, PSD, Cumulative Increase)	Y	
part 36	Calculation of emissions and recordkeeping (Offsets, PSD, Cumulative Increase)	Y	
part 37	Calculation of emissions and recordkeeping for toxic air contaminants (TRMP)	N	
part 40	Source to assure compliance with part 28a-d (BACT, offsets)	Y	
part 41	District review of source test procedures (BACT)	Y	
part 43	Submittal of reports (2-6-502)	Y	
part 44	Retention of records for five years (2-6-502)	Y	
part 45	Notification of violations to District (2-1-403)	Y	
part 47	Sampling ports and platforms (1-501)	Y	

IV. Source Specific Applicable Requirements

Table IV- F
S-6, FIRE PUMP DIESEL ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	Ringelmann Number 2 Limitation for engines	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	**Inorganic Gaseous Pollutants-Nitrogen Oxides from Stationary Engines (8/1/01)**		
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-530	Emergency standby engines, monitoring and recordkeeping	N	
BAAQMD Condition #19399			
Part 1	Regulatory requirements (Regulations 6; Regulation 9, Rule 1)	N	
Part 2	Hours of Operation Meter (9-8-330.2)	N	
Part 3	Emergency Operation (9-8-330.1)	N	
Part 4a	Non-Resettable Totalizing Counter (9-8-530)	N	
Part 4b	Sulfur content of diesel fuel (2-6-503, 9-1-304)	Y	
Part 5	Records		
Part 5a	Hours of operation for reliability-related activities (9-8-530)	N	
Part 5b	Hours of operation under emergency conditions (9-8-530)	N	
Part 5c	Fuel usage (9-8-530)	N	
Part 5d	Fuel certifications (2-1-403)	Y	
Part 6	Fuel usage for maintenance and reliability activities	N	

IV. Source Specific Applicable Requirements

Table IV – G
Source-Specific Applicable Requirements
S-7, NATURAL-GAS FIRED EMERGENCY GENERATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	Ringelmann Number 2 Limitation for engines	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/1995)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitation	Y	
BAAQMD Regulation 9, Rule 8	**Inorganic Gaseous Pollutants-Nitrogen Oxides from Stationary Engines (8/1/01)**		
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-530	Emergency standby engines, monitoring and recordkeeping	N	
BAAQMD Condition # 21597			
Part 1	Hours of Operation (9-8-232)	N	
Part 2	Fuel or Hours of Operation Meter (9-8-530)	N	
Part 3	Records (9-8-530)	N	

IV. Source Specific Applicable Requirements

Table IV-H
S-8, COOLING TOWER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

VI. PERMIT CONDITIONS

Condition #16676
For All Sources:

Any condition that is preceded by an asterisk is not federally enforceable.

Definitions:

Clock Hour:	Any continuous 60-minute period beginning on the hour.
Calendar Day:	Any continuous 24-hour period beginning at 12:00 AM or 0000 hours.
Year:	Any consecutive twelve-month period of time
Heat Input:	All heat inputs refer to the heat input at the higher heating value (HHV) of the fuel, in BTU/scf.
Rolling 3-hour period:	Any three-hour period that begins on the hour and does not include start-up or shutdown periods.
Firing Hours:	Period of time during which fuel is flowing to a unit, measured in fifteen minute increments.
MM BTU:	million British thermal units
Gas Turbine Start-up Mode:	The lesser of the first 180 minutes of continuous fuel flow to the Gas Turbine after fuel flow is initiated or the period of time from Gas Turbine fuel flow initiation until the Gas Turbine achieves two consecutive CEM data points in compliance with the emission concentration limits of parts 21(b) and 21(d).
Steam Turbine Cold Start-up:	The lesser of the first 360 minutes of continuous fuel flow to the Gas Turbine after fuel flow is initiated or the period of time from Gas Turbine fuel flow initiation until the Gas Turbine achieves two consecutive CEM data points in compliance with the emission concentration limits of parts 21(b) and 21(d), following a steam turbine shutdown of at least 72 hours.
Gas Turbine Shutdown Mode:	The lesser of the 30-minute period immediately prior to the termination of fuel flow to the Gas Turbine or the period of time

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from non-compliance with any requirement listed in Parts 21(a) through 21(f) until termination of fuel flow to the Gas Turbine.

Auxiliary Boiler Start-up: The lesser of the first 120 minutes of continuous fuel flow to an Auxiliary Boiler after fuel flow is initiated; or the period of time from fuel flow initiation until the Boiler achieves two consecutive CEM data points in compliance with the emission concentration limits of parts 28(b) and 28(d).

Auxiliary Boiler Shutdown: The lesser of the 30 minute period immediately prior the termination of fuel flow to the Auxiliary Boiler; or the period of time from non-compliance with any requirement listed in Parts 28(a) through 28(d) until termination of fuel flow to the auxiliary boiler.

Specified PAHs: The polycyclic aromatic hydrocarbons listed below shall be considered to Specified PAHs for these permit conditions. Any emission limits for Specified PAHs refer to the sum of the emissions for all six of the following compounds.

Benzo[a]anthracene
Benzo[b]fluoranthene
Benzo[k]fluoranthene
Benzo[a]pyrene
Dibenzo[a,h]anthracene
Indeno[1,2,3-cd]pyrene

Corrected Concentration: The concentration of any pollutant (generally NO_x, CO, or NH_3) corrected to a standard stack gas oxygen concentration. For emission point P-1 (Gas Turbine S-1 and HRSG S-2) and emission point P-2 (Gas Turbine S-3 and HRSG S-4) the standard stack gas oxygen concentration is 15% O_2 by volume on a dry basis. For emission point P-3 (Auxiliary Boiler S-5), the standard stack gas oxygen concentration is 3% O_2 by volume on a dry basis.

Combustor Tuning Activities: All testing, adjustment, tuning, and calibration activities recommended by the gas turbine manufacturer to insure safe and reliable steady-state operation of the gas turbines following replacement of the combustor. This includes, but is not limited to, adjusting the amount of fuel distributed between the combustion turbine's staged fuel systems to simultaneously minimize NOx and CO production while minimizing combustor dynamics and ensuring combustor stability.

Combustor Tuning Period: The cumulative period, not to exceed 360 minutes, during which combustor tuning activities are taking place

Precursor Organic

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For All Sources:

Compounds (POCs):	Any compound of carbon, excluding methane, ethane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates and ammonium carbonate
CEC CPM:	California Energy Commission Compliance Program Manager

1. Deleted Application 10470

2. Deleted Application 10470

3. Deleted Application 10470

4. Deleted Application 10470

5. Deleted Application 10470

6. Deleted Application 10470

7. Deleted Application 10470

8. Deleted Application 10470

9. Deleted Application 10470

10. Deleted Application 10470

11. Deleted Application 10470

12. Deleted Application 10470

13. Deleted Application 10470

Conditions for the Gas Turbines (S-1 & S-3) and the Heat Recovery Steam Generators (HRSGs) (S-2 & S-4).

14. The Gas Turbines (S-1 and S-3) and HRSGs (S-2 and S-4) shall be fired exclusively on natural gas with a maximum sulfur content of 1 grain per 100 standard cubic feet. To demonstrate compliance with this limit, the operator of S-1, S-2, S-3, and S-4 shall sample and analyze the gas from each supply source at least once per month~~every 30 consecutive days~~ to determine the sulfur content of the gas. (BACT for SO_2 and PM_{10})

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15. The combined heat input rate to each power train consisting of a Gas Turbine and its associated HRSG (S-1 & S-2 and S-3 & S-4) shall not exceed 2,225.1 MM BTU per hour, averaged over any rolling 3-hour period. (PSD for NO_x)

16. The combined heat input rate to each power train consisting of a Gas Turbine and its associated HRSG (S-1 & S-2 and S-3 & S-4) shall not exceed 50,738.24 MM BTU per calendar day. (PSD for PM_{10})

17. The combined cumulative heat input rate for both Gas Turbines (S-1 and S-3) and both HRSGs (S-2 and S-4) shall not exceed 34,010,400 MM BTU per year. (Offsets)

18. The HRSG duct burners shall not be fired unless its associated Gas Turbine is in operation. (BACT for NO_x, CO, POC)

19. The Gas Turbine (S-1) and HRSG (S-2) shall be abated by the properly operated and properly maintained Oxidizing Catalyst (A-2) and Selective Catalytic Reduction System (A-1), in series. (BACT for NO_x and CO)

20. The Gas Turbine (S-3) and HRSG (S-4) shall be abated by the properly operated and properly maintained Oxidizing Catalyst (A-4) and Selective Catalytic Reduction System (A-3), in series. (BACT for NO_x and CO)

21. The owner/operator of the Gas Turbines (S-1 and S-3) and HRSGs (S-2 and S-4) shall meet all of the requirements listed in (a) through (h) below, except during a Gas Turbine Start-up, a Gas Turbine Shutdown, a steam turbine cold start-up, or a gas turbine combustor tuning period. (BACT, PSD, and Toxic Risk Management Policy)

    (a) Nitrogen oxide emissions at P-1 (the combined exhaust point for the S-1 Gas Turbine and the S-2 HRSG after control by the A-1 SCR System and A-2 Oxidation Catalyst) shall not exceed 20 pounds per hour, calculated as NO_2, nor 0.009 lbs/MM BTU of natural gas fired. Nitrogen oxide emissions at P-2 (the combined exhaust point for the S-3 Gas Turbine and the S-4 HRSG after control by the A-3 SCR System and A-4 Oxidation Catalyst) shall not exceed 20 pounds per hour, calculated as NO_2, nor 0.009 lbs/MM BTU of natural gas fired. (PSD for NO_x)

    (b) The nitrogen oxide concentration at P-1 and P-2 each shall not exceed 2.5 ppmv, corrected to 15% O_2, on a dry basis, averaged over any 1-hour period. (BACT for NO_x)

    (c) Carbon monoxide emissions at P-1 and P-2 each shall not exceed 29.2 pounds per hour, nor 0.0132 lb/MM BTU of natural gas fired. (PSD for CO)

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(d) The carbon monoxide concentration at P-1 and P-2 each shall not exceed 6 ppmv, corrected to 15% O_2, on a dry basis, averaged over any rolling 3-hour period. (BACT for CO)

*(e) Ammonia (NH_3) emissions at P-1 and P-2 each shall not exceed 10 ppmv, corrected to 15% O_2, on a dry basis, averaged over any rolling 3-hour period. This ammonia emission concentration shall be verified by the continuous records of the ammonia injection rate to A-1 and A-3 SCR Systems. The correlation between the gas turbine and HRSG heat input rates, A-1 and A-3 SCR System ammonia injection rates, and corresponding ammonia emission concentration at emission points P-1 and P-2 shall be determined in accordance with permit part 38. (TRMP for NH_3)

(f) Precursor organic compound (POC) emissions at P-1 and P-2 each shall not exceed 3.8 pounds per hour, nor 0.0017 lb/MM BTU of natural gas fired. (BACT for POC)

(g) Sulfur dioxide (SO_2) mass emissions at P-1 and P-2 each shall not exceed 6.2 pounds per hour or 0.00277 lb/MM BTU of natural gas fired. (BACT for SO2)

(h) Particulate matter (PM_{10}) mass emissions at P-1 and P-2 each shall not exceed ~~16.3~~9 pounds per hour or ~~0.0073~~0.0040 lb/MM BTU of natural gas fired. (BACT for PM10)

22. Deleted Application 10470

23. The pollutant emission rates from each of the Gas Turbines (S-1 and S-3) during a start-up or shutdown or during a gas turbine combustor tuning period shall not exceed the limits established below. (PSD)

	Start-Up (lb/start-up)	Shutdown (lb/shutdown)	Steam Turbine Cold Start-up or Combustor Tuning Period (lb/start-up or lb/period)
(a) Oxides of Nitrogen (as NO_2)	240	20	600
(b) Carbon Monoxide (CO)	2514	44.1	2514
(c) Precursor Organic Compounds (as CH_4)	48	8	96

Within three months of the end of the Commissioning period, the owner/operator shall submit a plan designed to minimize emissions during the transient conditions encountered during gas turbine start-ups and shutdowns. This plan shall indicate what steps will be taken to start controlling NO_x emissions as soon as feasible, including when ammonia can

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be fed to the SCR system without producing ammonia slip in excess of 10 ppmvd @ 15% O_2. This plan shall be based upon the experience gathered from the source tests performed per part #13 and actual operating experience gained during the first six-months of operation. This plan shall also be developed in consultation with the manufacturers of the gas turbines, HRSGs, control systems, and air pollution control units. This plan shall be submitted to the CEC CPM for approval. After the plan has been approved, the owner/operator shall use the procedures included in the plan to minimize NO_x emissions during gas turbine start-ups and shutdowns.

Within 24 months of the end of the Commissioning period, the owner/operator shall submit a report to the District and the CEC CPM that establishes reasonable maximum hourly mass emission rates for start-up and shutdown conditions. The revised mass emission rates shall be based upon source test and continuous emission monitoring data. Pending approval of the District and the CEC CPM, these revised mass emission rates shall be established as new emission limitations that will supersede the limits included in this part.

24. No more than one of the Gas Turbines (S-1 and S-3) shall be in start-up mode, supporting a steam turbine cold start-up, or undergoing combustor tuning at any point in time. The total number of hours during which the Gas Turbines (S-1 and S-3) may be operated to support a steam turbine cold start-up or may undergo combustor tuning shall not exceed 30 hours per year per gas turbine. (PSD)

Conditions for the Auxiliary Boiler (S-5)

25. The Auxiliary Boiler (S-5) shall be fired exclusively on natural gas with a maximum sulfur content of 1 grain per 100 standard cubic feet. To demonstrate compliance with this limit, the operator of S-5 shall sample and test the gas from each supply source at least once every 30 consecutive days to determine the sulfur content of the gas. (BACT for SO_2 and PM_{10})

26. The heat input rate to the Auxiliary Boiler (S-5) shall not exceed 320 million BTU per hour, averaged over any rolling 3-hour period. (Cumulative Increase)

27. The cumulative heat input rate to the Auxiliary Boiler (S-5) shall not exceed 480,000 million BTU per year. (Cumulative Increase)

28. The owner/operator of the Auxiliary Boiler (S-5) shall meet all of the requirements listed in (a) through (h) below, except during an Auxiliary Boiler Start-up or an Auxiliary Boiler Shutdown. (BACT, PSD)

    (a) Nitrogen oxide emissions at P-3 (the exhaust point for the Auxiliary Boiler) shall not

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exceed 3.5 pounds per hour, calculated as NO_2. (PSD for NO_x)

(b) The nitrogen oxide concentration at P-3 shall not exceed 9.0 ppmv, measured as NO_x, corrected to 3% O_2, on a dry basis, averaged over any rolling 3-hour period. (BACT for NO_x)

(c) Carbon monoxide emissions at P-3 shall not exceed 11.8 pounds per hour. (PSD for CO)

(d) The carbon monoxide concentration at P-3 shall not exceed 50 ppmv, corrected to 3% O_2, on a dry basis, averaged over any rolling 3-hour period. (BACT for CO)

(e) Precursor organic compound (POC) emissions at P-3 shall not exceed 1.7 pounds per hour. (BACT for POC)

(f) Sulfur dioxide (SO_2) mass emissions at P-3 shall not exceed 0.5 pounds per hour. (BACT for SO_2)

(g) Particulate matter (PM_{10}) mass emissions at P-3 shall not exceed 1.6 pounds per hour. (BACT for PM_{10})

*(h) Ammonia (NH_3) emissions at P-3 shall not exceed 10 ppmv, corrected to 3% O_2, on a dry basis, averaged over any rolling 3-hour period. This ammonia concentration shall be verified by the continuous recording of the ammonia injection rate at the A-5 SCR System. The correlation between the auxiliary boiler heat input rate, A-5 SCR System ammonia injection rate, and corresponding ammonia emission concentration at P-3 shall be determined in accordance with permit part 38. (TRMP)

29. The Auxiliary Boiler (S-5), its burners, combustion chamber, and exhaust system shall be designed and constructed so that the boiler can be retrofitted with an oxidizing catalyst in the event the Auxiliary Boiler cannot consistently comply with the emission limitations specified in part 28. S-5 Auxiliary Boiler shall be abated by the properly operating and maintained A-5 Selective Catalytic Reduction System. (BACT for NOx, CO)

Conditions for All Sources
(S-1, S-2, S-3, S-4, and S-5)

30. The combined heat input rate to the Gas Turbines (S-1 and S-3), HRSGs (S-2 and S-4), and Auxiliary Boiler (S-5) shall not exceed 109,157 million BTU per calendar day. (PSD, CEC Offsets)

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31. The cumulative heat input rate to the Gas Turbines (S-1 and S-3), HRSGs (S-2 and S-4), and Auxiliary Boiler (S-5) combined shall not exceed 34,490,400 million BTU per year. (Offsets)

32. Total combined emissions from the Gas Turbines, HRSGs, and Auxiliary Boiler (S-1, S-2, S-3, S-4, and S-5), including emissions generated during Gas Turbine Start-ups, Gas Turbine Shutdowns, Auxiliary Boiler Start-ups, and Auxiliary Boiler Shutdowns, shall not exceed the following limits during any calendar day:

(a)	1342 pounds of NO_x (as NO_2) per day	(CEQA)
(b)	6445 pounds of CO per day	(PSD)
(c)	271.3 pounds of POC (as CH_4) per day	(CEQA)
(d)	~~742~~ 465 pounds of PM_{10} per day	(PSD)
(e)	282.6 pounds of SO_2 per day	(BACT)

33. Cumulative emissions from the Gas Turbines, HRSGs, and the Auxiliary Boiler combined (S-1, S-2, S-3, S-4, and S-5), including emissions generated during Gas Turbine Start-ups, Gas Turbine Shutdowns, Auxiliary Boiler Start-ups, and Auxiliary Boiler Shutdowns, shall not exceed the following limits during any consecutive twelve-month period:

(a)	175.7 tons of NO_x (as NO_2) per year	(Offsets, PSD)
(b)	506.4 tons of CO per year	(Cumulative Increase)
(c)	33.9 tons of POC (as CH_4) per year	(Offsets)
(d)	~~131.6~~69.2 tons of PM_{10} per year	(Offsets, PSD)
(e)	47.11 tons of SO_2 per year	(Cumulative Increase)

*34. The maximum projected annual toxic air contaminant emissions from the Gas Turbines, HRSGs, and the Auxiliary Boiler combined (S-1, S-2, S-3, S-4, and S-5) shall not exceed the following limits:

(a) 3,817 pounds of formaldehyde per year
(b) 460.9 pounds of benzene per year
(c) 78.5 pounds of Specified polycyclic aromatic hydrocarbons (PAHs) per year

unless the owner/operator meets the requirements of (d), (e), and (f) below:

(d) The owner/operator shall perform a health risk assessment using the emission rates determined by source test and the most current Bay Area Air Quality Management District (District) approved procedures and unit risk factors in effect at the time of the analysis. The calculated excess cancer risk shall not exceed 1.0 in one million.

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(e) The owner/operator shall perform a second risk analysis using the emission rates determined by source test and the procedures and unit risk factors in effect when the Determination of Compliance was issued. The calculated excess cancer risk shall not exceed 1.0 in one million.

(f) Both of these risk analyses shall be submitted to the District and the CEC CPM within 60 days of the source test date. The owner/operator may request that the District and the CEC CPM revise the carcinogenic compound emission limits specified above. If the owner/operator demonstrates to the satisfaction of the APCO that these revised emission limits will satisfy the conditions stated in parts (d) and (e) above, the District and the CEC CPM may, at their discretion, adjust the carcinogenic compound emission limits listed above. The Title V operating permit shall be amended to reflect these adjustments. (TRMP)

35. The owner/operator shall demonstrate compliance with parts 15 through 18, 21(a) through 21(d), 23, 24, 26, 28(a) through 28(d), 32(a), 32(b), 33(a), and 33(b) by using properly operated and maintained continuous monitors (during all hours of operation including equipment Start-up and Shutdown periods and Gas Turbine Combustor Tuning Periods) for all of the following parameters:

(a) Firing Hours and Fuel Flow Rates for each of the following sources: S-1 and S-2 combined, S-3 and S-4 combined, and S-5.
(b) Oxygen (O_2) Concentrations, Nitrogen Oxides (NO_x) Concentrations, and Carbon Monoxide (CO) Concentrations at each of the following exhaust points: P-1, P-2 and P-3.
(c) Ammonia injection rate at A-1 and A-3 SCR Systems

The owner/operator shall record all of the above parameters every 15 minutes (excluding normal calibration periods) and shall summarize all of the above parameters for each clock hour. For each calendar day, the owner/operator shall calculate and record the total Firing Hours, the average hourly Fuel Flow Rates, and pollutant emission concentrations.

The owner/operator shall use the parameters measured above and District-approved calculation methods to calculate the following parameters:

(d) Heat Input Rate for each of the following sources: S-1 and S-2 combined, S-3 and S-4 combined, and S-5.
(e) Corrected NO_x concentrations, NO_x mass emissions (as NO_2), corrected CO concentrations, and CO mass emissions at each of the following exhaust points: P-1, P-2,

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and P-3.

For each source, source grouping, or exhaust point, the owner/operator shall record the parameters specified in parts 35(d) and 35(e) at least once every 15 minutes (excluding normal calibration periods). As specified below, the owner/operator shall calculate and record the following data:

(f) total Heat Input Rate for every clock hour and the average hourly Heat Input Rate for every rolling 3-hour period.
(g) on an hourly basis, the cumulative total Heat Input Rate for each calendar day for the following: each Gas Turbine and associated HRSG combined, the Auxiliary Boiler, and all five sources (S-1, S-2, S-3, S-4, and S-5) combined.
(h) the average NO_x mass emissions (as NO_2), CO mass emissions, and corrected NO_x and CO emission concentrations for every clock hour and for every rolling 3-hour period.
(i) on an hourly basis, the cumulative total NO_x mass emissions (as NO_2) and the cumulative total CO mass emissions, for each calendar day for the following: each Gas Turbine and associated HRSG combined, the Auxiliary Boiler, and all five sources (S-1, S-2, S-3, S-4, and S-5) combined.
(j) For each calendar day, the average hourly Heat Input Rates, Corrected NO_x emission concentrations, NO_x mass emissions (as NO_2), corrected CO emission concentrations, and CO mass emissions for each Gas Turbine and associated HRSG combined and the Auxiliary Boiler.
(k) on a daily basis, the cumulative total NO_x mass emissions (as NO_2) and cumulative total CO mass emissions, for each calendar year for all five sources (S-1, S-2, S-3, S-4, and S-5) combined.

(1-520.1, 9-9-501, BACT, Offsets, NSPS, PSD, Cumulative Increase)

36. To demonstrate compliance with parts 23(c), 32(c) through 32(e), and 33(c) through 33(e), the owner/operator shall calculate and record on a daily basis, the Precursor Organic Compound (POC) mass emissions, Fine Particulate Matter (PM_{10}) mass emissions (including condensable particulate matter), and Sulfur Dioxide (SO_2) mass emissions from each power train and the auxiliary boiler. The owner/operator shall use the actual Heat Input Rates calculated pursuant to part 35, actual Gas Turbine Start-up Times, actual Gas Turbine Shutdown Times, actual steam turbine cold start-up times, actual gas turbine combustor tuning times, and CEC and District-approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows:

(a) For each calendar day, POC, PM_{10}, and SO_2 Emissions shall be summarized for: each power train (Gas Turbine and its respective HRSG combined); the Auxiliary Boiler; and

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the five sources (S-1, S-2, S-3, S-4, and S-5) combined.

(b) on a daily basis, the cumulative total POC, PM_{10}, and SO_2 mass emissions, for each year for all five sources (S-1, S-2, S-3, S-4, and S-5) combined.

(Offsets, PSD, Cumulative Increase)

*37. To demonstrate compliance with Part 34, the owner/operator shall calculate and record on an annual basis the maximum projected annual emissions of: Formaldehyde, Benzene, and Specified PAH's. Maximum projected annual emissions shall be calculated using the maximum Heat Input Rate of 39,390,400 MM BTU/year and the highest emission factor (pounds of pollutant per MM BTU of Heat Input) determined by any source test at the Gas Turbine, HRSG, or Auxiliary Boiler. (TRMP)

*38. Within 60 days of start-up of the LMEC, the owner/operator shall conduct a District-approved source test on exhaust point P-1 or P-2 and P-3 to determine the corrected ammonia (NH_3) emission concentration to determine compliance with part 21(e) and 28(h). The source test shall determine the correlation between the heat input rates of the gas turbine and associated HRSG, A-1 or A-3 SCR System ammonia injection rate, and the corresponding NH_3 emission concentration at emission point P-1 or P-2 and the correlation between the heat input rate of the auxiliary boiler, A-5 SCR System ammonia injection rate, and the corresponding NH_3 emission concentration at emission point P-3. The source test shall be conducted over the expected operating range of the turbine (at a minimum, 60%, 80%, and 100% load) to establish the range of ammonia injection rates necessary to achieve NO_x emission reductions while maintaining ammonia slip levels. Continuing compliance with part 21(e) shall be demonstrated through calculations of corrected ammonia concentrations based upon the source test correlation and continuous records of ammonia injection rate. (TRMP)

39. Within 60 days of start-up of the LMEC and on an annual basis thereafter, the owner/operator shall conduct a District-approved source test on exhaust points P-1 and P-2 while each Gas Turbine and associated Heat Recovery Steam Generator are operating at maximum load to determine compliance with Parts 21(a), (b), (c), (d), (f), (g), & (h) and while each Gas Turbine and associated Heat Recovery Steam Generator are operating at minimum load to determine compliance with Parts 21(c), (d), & (f) and to verify the accuracy of the continuous emission monitors required in part 35. The owner/operator shall test for (as a minimum): water content, stack gas flow rate, oxygen concentration, precursor organic compound concentration and emissions, methane, ethane, and particulate matter (PM_{10}) emissions including condensable particulate matter. (BACT, offsets)

40. Within 60 days of start-up of the LMEC and on an annual basis thereafter, the owner/operator shall conduct a District approved source test on exhaust point P-3 while the Auxiliary Boiler

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(S-5) is operating at maximum allowable operating rates to determine compliance with the emission limitations of Part 28(a) through 28(g) and to verify the accuracy of the continuous emission monitors required in part 35. The owner/operator shall test for (as a minimum): water content, stack gas flow rate, oxygen concentration, precursor organic compound concentration and emissions, and particulate matter (PM_{10}) emissions including condensable particulate matter. (BACT, offsets)

41. The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section and the CEC CPM prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements for continuous emission monitors as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section and the CEC CPM in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). As indicated above, the Owner/Operator shall measure the contribution of condensable PM (back half) to the total PM_{10} emissions. However, the Owner/Operator may propose alternative measuring techniques to measure condensable PM such as the use of a dilution tunnel or other appropriate method used to capture semi-volatile organic compounds. Source test results shall be submitted to the District and the CEC CPM within ~~30~~ 60 days of ~~conducting~~ completing the tests. (BACT)

*42. Within 60 days of start-up of the LMEC and on an biennial basis (once every two years) thereafter, the owner/operator shall conduct a District-approved source test on exhaust point P-1 or P-2 while the Gas Turbine and associated Heat Recovery Steam Generator are operating at maximum allowable operating rates to demonstrate compliance with Part 34. Unless the requirements of part 42(b) have been met, the owner/operator shall determine the formaldehyde, benzene, and Specified PAH emission rates (in pounds/MM BTU). If any of the above pollutants are not detected (below the analytical detection limit), the emission concentration for that pollutant shall be deemed to be one half (50%) of the detection limit concentration. (TRMP)

(a) The owner/operator shall calculate the maximum projected annual emission rate for each pollutant by multiplying the pollutant emission rate (in pounds/MM BTU; determined by source testing) by 34,490,400 MM BTU/year.

(b) If three consecutive biennial source tests demonstrate that the emission rates calculated pursuant to part (a) for any of the compounds listed below are less than the annual emission rates shown, then the owner/operator may reduce the frequency of future testing for that pollutant to once every five years.

Benzene	≤	221 pounds/year
Formaldehyde	≤	1,834 pounds/year
Specified PAH's	≤	38 pounds/year

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(TRMP)

43. The owner/operator shall submit all reports (including, but not limited to monthly CEM reports, monitor breakdown reports, emission excess reports, equipment breakdown reports, etc.) as required by District Rules or Regulations and in accordance with all procedures and time limits specified in the Rule, Regulation, Manual of Procedures, or Enforcement Division Policies & Procedures Manual. (Regulation 2-6-502)

44. The owner/operator shall maintain all records and reports on site for a minimum of 5 years. These records shall include but are not limited to: continuous monitoring records (firing hours, fuel flows, emissions, monitor excesses, breakdowns, etc.), source test and analytical records, emission calculation records, records of steam turbine cold start-ups and gas turbine combustor tuning, and records of plant upsets and related incidents. The owner/operator shall make all records and reports available to District and the CEC CPM staff upon request. (Regulation 2-6-501)

45. The owner/operator shall notify the District and the CEC CPM of any violations of these permit conditions. Notification shall be submitted in a timely manner, in accordance with all applicable District Rules, Regulations, and the Manual of Procedures. Not withstanding the notification and reporting requirements given in any District Rule, Regulation, or the Manual of Procedures, the owner/operator shall submit written notification (facsimile is acceptable) to the Enforcement Division within 96 hours of the violation of any permit condition. (Regulation 2-1-403)

46. The stack heights of the emission points P-1 and P-2 shall be at least 150 feet above mean sea level (approximately 138.8 feet above grade level at the stack base). The stack height of the emission point P-3 shall be at least 100.6 feet above mean sea level (approximately 88.6 feet above grade level at the stack base). (PSD, TRMP)

47. The Owner/Operator of LMEC shall maintain adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall comply with the Manual of Procedures, Volume IV, Source Test Policy and Procedures, and shall be subject to BAAQMD review and approval.
(Regulation 1-501)

48. Deleted Application 10470.

49. Deleted Application 10470.

50. Deleted Application 10470.

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51. Deleted Application 10470.

52. Deleted Application 10470.

53. Deleted August, 2001.

54. The Owner/Operator shall submit a Preplanned Abatement Strategy as described in BAAQMD Regulation 4, Air Pollution Episode Plan, within 120 days after issuance of the Title V permit. After the plan has been approved by the APCO, the owner/operator shall keep records of implementation on an event basis. (Basis: BAAQMD Regulation 4)

55. To demonstrate compliance with part 24, the owner/operator shall record the start time, end time, and duration of each steam turbine cold start-up and each gas turbine combustor tuning period. On an annual basis, the owner/operator shall submit a report to the District and the CEC CPM describing the total number of hours during which each turbine was operated in support of a steam turbine cold start-up or combustor tuning mode during the year. (PSD)

VI. Permit Conditions

Condition #19399
For S-6, Fire Pump Diesel Engine

1. The S-6 engine is subject to the requirements of Regulation 9, Rule 1 ("Sulfur Dioxide"), and the requirements of Regulation 6 ("Particulate and Visible Emissions"). (basis: Regulation 9, Rule 1; Regulation 6)

*2. The S-6 engine shall be operated for no more than 100 hours in any consecutive 12 month period for the purpose of reliability-related activities as defined in Regulation 9-8-232. (basis: 9-8-330.2)

*3. The S-6 engine may be operated for an unlimited amount of time for the purpose of emergency use as defined in Regulation 9-8-231. (basis: 9-8-330.1)

*4a. The S-6 engine shall be equipped with a non-resettable totalizing counter which records hours of operation for each engine. (basis: 9-8-530)

4b. The sulfur content of the fuel burned at S-6 shall not exceed 0.5% sulfur by weight. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. (basis: 2-6-503, 9-1-304)

5. The following monthly records shall be maintained in a District-approved log for at least *5~~2~~* years and shall be made available to the District upon request:
   *a. hours of operation for reliability-related activities for S-6 on an individual basis and a description of the activity
   *b. hours of operation under emergency conditions for S-6 on an individual basis and a description of the nature of the emergency condition
   *c. fuel usage at S-6 on an individual basis
   d. Fuel certifications
   (basis: 2-1-403, 9-8-530)

*6. The heat input to the fire pump diesel engine resulting from maintenance and testing activities shall not exceed 211 MM BTU totaled over any consecutive twelve month period. (TRMP)

VI. Permit Conditions

Condition #21597
For S-7, Natural-Gas Fired Emergency Generator

1. Hours of Operation: The owner/operator shall operate the emergency standby engine(s) only to mitigate emergency conditions or for reliability-related activities. Operation of the engine for the purpose of mitigating emergency conditions is unlimited. Operation of the engine for the purpose of reliability-related activities is limited to 100 hours per calendar year. (Basis: 9-8-330)

   "Emergency Conditions" are defined as any of the following:
   a. Loss of regular natural gas supply
   b. Failure of regular electric power supply
   c. Flood mitigation
   d. Sewage overflow mitigation
   e. Fire
   f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor
   (Basis: 9-8-231)

   "Reliability-related activities" are defined as any of the following:

   a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or
   b. Operation of an emergency standby engine during maintenance of a primary motor.
   (Basis: 9-8-232)

2. The owner/operator shall equip the emergency standby engine with either:
   a. a non-resettable totalizing meter that measures the hours of operation for the engine; or
   b. a non-resettable fuel usage meter, the maximum hourly fuel rate shall be used to convert fuel usage to hours of operation.
   (Basis: 9-8-530)

3. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least ~~2~~5 years and shall make the log available for District inspection upon request:

   a. Hours of operation (total)
   b. Hours of operation (emergency)
   c. For each emergency, the nature of the emergency condition
   d. Fuel usage for engine(s) if a non-resettable fuel usage meter is utilized
   (Basis: 9-8-530)

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-3-303	N		125 ppm	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-9-301.3	Y		9 ppmv @ 15% O2, dry	BAAQMD 9-9-501	C	CEM
NOx	NSPS 40 CFR 60.44a (d)(1)	Y		1.6 lb/MW-hr (rolling 24-hr average)	Monitoring requirement subsumed by monitoring for BACT limit. See Permit Shield.	N	
	NSPS, 40 CFR 60.332 (a)(1)	Y		100 ppmv, @ 15% O2, dry 4-hr average	40 CFR 60.334(c)	C	CEM
		Y		None	40 CFR 75.10	C	CEM

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD condition #16676, part 21a	Y		20 lb/hr, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 35b	C	CEM
NOx	BAAQMD condition #16676, part 21a	Y		20 lb/hr, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum load
	BAAQMD condition #16676, part 21a	Y		0.009 lb/MM BTU, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 35b	C	CEM
	BAAQMD condition #16676, part 21a	Y		0.009 lb/MM BTU, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum load
	BAAQMD condition #16676, part 21b	Y		2.5 ppmv, @ 15% O2, dry, for turbine and HRSG combined, 1-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum load

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Applicable Limits and Compliance Monitoring Requirements
S-1, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD condition #16676, part 23(a)	Y		240 lb/turbine during start-up	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 23(a)	Y		20 lb/turbine during shutdown	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 23(a)	Y		600 lb/turbine during steam turbine cold start-up or combustor tuning period	BAAQMD condition #16676, part 36	P/D	Records, calculations
NOx	BAAQMD condition #16676, part 32a	Y		1342 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 35b	C	CEM
	BAAQMD condition #16676, part 33a	Y		175.7 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM
CO	BAAQMD condition #16676, part 21c	Y		29.2 lb/hr, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 21c	Y		0.0132 lb/MM BTU, for turbine and HRSG combined**,** except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load

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S-1, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD condition #16676, part 21d	Y		6 ppmv, @ 15% O2, dry, for turbine and HRSG combined, 3-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
CO	BAAQMD condition #16676, part 23(b)	Y		2514 lb/turbine during start-up, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 36	P/D	Records, calculations
CO	BAAQMD condition #16676, part 23(b)	Y		44.1 lb/turbine during shutdown	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 32b	Y		6445 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 35b	C	CEM
CO	BAAQMD condition #16676, part 33b	Y		506.4 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM
CO2		Y		None	40 CFR 75.10	C	fuel flow monitor and CO2 calculation
SO2	BAAQMD 9-1-301	Y		GLC[1] of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N	
	BAAQMD 9-1-302	Y		300 ppm (dry)		N	

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Applicable Limits and Compliance Monitoring Requirements
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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	NSPS 40 CFR 60.43a (b)(2)			0.2 lb/MM BTU, 24 hr average except during startup, shutdown		N	
SO2	NSPS 40 CFR 60.333(b)	Y		< than 0.8% sulfur by weight in fuel	40 CFR 334(h)(3)	P/M or E	Monthly fuel analysis or current, valid purchase contract, tariff sheet or transport-tation contract
		Y		None	40 CFR 75.11, 40 CFR 75, Appendix D, part 2.3		Fuel measure-ments, calculations
	BAAQMD condition #16676, part 14	Y		Fuel sulfur content of 1 gr/100 scf	BAAQMD condition #16676, part 14	P/M	Fuel testing
	BAAQMD condition #16676, part 21g	Y		6.2 lb/hr, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
SO2	BAAQMD condition #16676, part 21g	Y		0.00277 lb/MM BTU, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load

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Applicable Limits and Compliance Monitoring Requirements
S-1, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD condition #16676, part 32e	Y		282.6 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 33e	Y		47.11 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
Opacity	BAAQMD 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2		N	
PM	NSPS 40 CFR 60.42a(b)	Y		< 20% opacity, 6 minute average, except one six minute period/hr up to 27% opacity		N	
PM10	BAAQMD condition #16676, part 21h	Y		~~16.3~~ 9 lb/hr, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
PM10	BAAQMD condition #16676, part 21h	Y		~~0.0073~~ 0.0040 lb/MM BTU, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 32d	Y		~~742~~ 465 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations

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S-1, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM10	BAAQMD condition #16676, part 33d	Y		~~131.6~~ 69.2 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
POC	BAAQMD condition #16676, part 21f	Y		3.8 lb/hr (as CH4) for turbine, and HRSG combined except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
POC	BAAQMD condition #16676, part 21f	Y		0.0017 lb/MM BTU (as CH4) for turbine, and HRSG combined except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 23(c)	Y		48 lb/turbine during start-up	BAAQMD condition #16676, part 36	P/D	Records, calculations
POC	BAAQMD condition #16676, part 23(c)	Y		8 lb/turbine during shutdown	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 23(c)	Y		96 lb/turbine during steam turbine cold start-up or combustor tuning period	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 32c	Y		271.3 lb/day (as CH4) for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD condition #16676, part 33c	Y		33.9 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
NH3	BAAQMD condition #16676, Part 21e	N		10 ppmv, @ 15% O2, dry, averaged over 3 hrs for turbine and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 35c	C	Ammonia injection rate monitor
NH3	BAAQMD condition #16676, Part 21e	N		10 ppmv, @ 15% O2, dry, averaged over 3 hrs for turbine and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 21e	C	Ammonia injection rate monitor
Formal-dehyde	BAAQMD condition #16676, part 34a	N		3817 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 34a	N		3817 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test
Benzene	BAAQMD condition #16676, part 34a	N		460.9 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 34a	N		460.9 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Specified PAH's	BAAQMD condition #16676, Part 34c	N		78.5 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, Part 34c	N		78.5 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test
Heat input limit	BAAQMD condition #16676, part 15	Y		2,225.1 MM BTU/hr, 3-hr average for S-1, Turbine and S-2, HRSG, total	BAAQMD condition #16676, part 35a	C	Fuel meter, firing monitor, calculations
Heat Input Limit	BAAQMD condition #16676, part 16	Y		50,738.24 MM BTU/calendar day, for S-1, Turbine and S-2, HRSG, total	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations
	BAAQMD condition #16676, part 17	Y		34,010,400 MM BTU/yr for S-1, S-3, Turbines and S-2, S-4, HRSGs combined	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations
	BAAQMD condition #16676, part 30			109,157 MM BTU/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters
Heat input limit	BAAQMD condition #16676, part 30	Y		109,157 MM BTU/day, for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters
	BAAQMD condition #16676, part 31	Y		34,490,400 MM BTU/yr for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Steam turbine cold start-up or combus-tor tuning	BAAQMD condition #16676, part 24	Y		30 hours per year per turbine	BAAQMD condition #16676, part 55	P/H	records

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-3-303	N		125 ppm	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-9-301.3	Y		9 ppmv @ 15% O2, dry	BAAQMD 9-9-501	C	CEM
	NSPS 40 CFR 60.44a (d)(1)	Y		1.6 lb/MW-hr (rolling 24-hr average)	Monitoring requirement subsumed by monitoring for BACT limit. See Permit Shield.	N	
NOx	NSPS, 40 CFR 60.332 (a)(1)	Y		100 ppmv, @ 15% O2, dry 4-hr average	40 CFR 60.334(c)	C	CEM
		Y		None	40 CFR 75.10	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD condition #16676, part 21a	Y		20 lb/hr, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 35b	C	CEM
	BAAQMD condition #16676, part 21a	Y		20 lb/hr, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum load
NOx	BAAQMD condition #16676, part 21a	***Y***		0.009 lb/MM BTU, for turbine and HRSG combined**,** except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 35b	C	CEM
NOx	BAAQMD condition #16676, part 21a	***Y***		0.009 lb/MM BTU, for turbine and HRSG combined**,** except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum load
	BAAQMD condition #16676, part 21b	Y		2.5 ppmv, @ 15% O2, dry, for turbine and HRSG combined, 1-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum load

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD condition #16676, part 32a	Y		1342 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 35b	C	CEM
CO	BAAQMD condition #16676, part 33a	Y		175.7 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM
	BAAQMD condition #16676, part 21c	Y		29.2 lb/hr, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 21c	Y		0.0132 lb/MM BTU, for turbine and HRSG combined**,** except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 21d	Y		6 ppmv, @ 15% O2, dry, for turbine and HRSG combined, 3-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
CO	BAAQMD condition #16676, part 32b	Y		6445 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 35b	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD condition #16676, part 33b	Y		506.4 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM
CO2		Y		None	40 CFR 75.10	C	fuel flow monitor and CO2 calculation
SO2	BAAQMD 9-1-301	Y		GLC[1] of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N	
	BAAQMD 9-1-302	Y		300 ppm (dry)		N	
	NSPS 40 CFR 60.43a (b)(2)			0.2 lb/MM BTU, 24 hr average except during startup, shutdown		N	
SO2	NSPS 40 CFR 60.333(b)	Y		< than 0.8% sulfur by weight in fuel	40 CFR 334(h)(3)	P/M or E	Monthly fuel analysis or current, valid purchase contract, tariff sheet or transport-tation contract
		Y		None	40 CFR 75.11, 40 CFR 75, Appendix D, part 2.3		Fuel measure-ments, calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD condition #16676, part 21g	Y		6.2 lb/hr, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
SO2	BAAQMD condition #16676, part 21g	Y		0.00277 lb/MM BTU, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 32e	Y		282.6 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 33e	Y		47.11 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
Opacity	BAAQMD 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour		N	
Opacity	BAAQMD 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2		N	
PM	NSPS 40 CFR 60.42a(b)	Y		< 20% opacity, 6 minute average, except one six minute period/hr up to 27% opacity		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM10	BAAQMD condition #16676, part 21h	Y		~~16.3~~ 9 lb/hr, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 21h	Y		0.~~0073~~ 0.0040 lb/MM BTU, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 32d	Y		~~742~~ 465 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 33d	Y		~~131.6~~ 69.2 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
POC	BAAQMD condition #16676, part 21f	Y		3.8 lb/hr (as CH4) for turbine, and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
POC	BAAQMD condition #16676, part 21f	Y		0.0017 lb/MM BTU (as CH4) for turbine, and HRSG combined except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD condition #16676, part 32c	Y		271.3 lb/day (as CH4) for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 33c	Y		33.9 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
NH3	BAAQMD condition #16676, Part 21e	N		10 ppmv, @ 15% O2, dry, averaged over 3 hrs for turbine and HRSG combined except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 35c	C	Ammonia injection rate monitor
	BAAQMD condition #16676, Part 21e	N		10 ppmv, @ 15% O2, dry, averaged over 3 hrs for turbine and HRSG combined except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 21e	C	Ammonia injection rate monitor
Formal-dehyde	BAAQMD condition #16676, part 34a	N		3817 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
Formal-dehyde	BAAQMD condition #16676, part 34a	N		3817 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Benzene	BAAQMD condition #16676, part 34a	N		460.9 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 34a	N		460.9 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test
Specified PAH's	BAAQMD condition #16676, Part 34c	N		78.5 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, Part 34c	N		78.5 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test
Heat input limit	BAAQMD condition #16676, part 15	Y		2,225.1 MM BTU/hr, 3-hr average for S-1, Turbine and S-2, HRSG, total	BAAQMD condition #16676, part 35a	C	Fuel meter, firing monitor, calculations
	BAAQMD condition #16676, part 16	Y		50,738.24 MM BTU/calendar day, for S-1, Turbine and S-2, HRSG, total	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations
	BAAQMD condition #16676, part 17	Y		34,010,400 MM BTU/yr for S-1, S-3, Turbines and S-2, S-4, HRSGs combined	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations
Heat input limit	BAAQMD condition #16676, part 30			109,157 MM BTU/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-2, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Heat input limit	BAAQMD condition #16676, part 30	Y		109,157 MM BTU/day, for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters
	BAAQMD condition #16676, part 31	Y		34,490,400 MM BTU/yr for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters
Prohi-bited firing	BAAQMD condition #16676, part 18			Duct burner may not be fired if turbine, S-1, is not fired	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-3, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-3-303	N		125 ppm	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-9-301.3	Y		9 ppmv @ 15% O2, dry	BAAQMD 9-9-501	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-3, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	NSPS 40 CFR 60.44a (d)(1)	Y		1.6 lb/MW-hr (rolling 24-hr average)	Monitoring requirement subsumed by monitoring for BACT limit. See Permit Shield.	N	
NOx	NSPS 40 CFR 60.332 (a)(1)	Y		100 ppmv, @ 15% O2, dry 4-hr average	40 CFR 60.334(c)	C	CEM
		Y		None	40 CFR 75.10	C	CEM
	BAAQMD condition #16676, part 21a	Y		20 lb/hr, for turbine and HRSG combined, except during turbine startup or shutdown	BAAQMD condition #16676, part 35b	C	CEM
NOx	BAAQMD condition #16676, part 21a	Y		20 lb/hr, for turbine and HRSG combined, except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum load
NOx	BAAQMD condition #16676, part 21a	Y		0.009 lb/MM BTU, for turbine and HRSG combined, except during turbine startup or shutdown	BAAQMD condition #16676, part 35b	C	CEM
	BAAQMD condition #16676, part 21a	Y		0.009 lb/MM BTU, for turbine and HRSG combined, except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum load

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-3, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD condition #16676, part 21b	Y		2.5 ppmv, @ 15% O2, dry, for turbine and HRSG combined, 1-hr average except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum load
NOx	BAAQMD condition #16676, part 23(a)	Y		240 lb/turbine during start-up	BAAQMD condition #16676, part 36	P/D	Records, calculations
NOx	BAAQMD condition #16676, part 23(a)	Y		20 lb/turbine during shutdown	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 32a	Y		1342 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 35b	C	CEM
NOx	BAAQMD condition #16676, part 33a	Y		175.7 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM
CO	BAAQMD condition #16676, part 11	Y		10,848 lb/day for turbines, and HRSGs combined during commissioning and including startup and shutdown of turbines	BAAQMD condition #16676, part 7	C	CEM
	BAAQMD condition #16676, part 21c	Y		29.2 lb/hr, for turbine and HRSG combined, except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-3, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD condition #16676, part 21c	Y		0.0132 lb/MM BTU, for turbine and HRSG combined**,** except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 21d	Y		6 ppmv, @ 15% O2, dry, for turbine and HRSG combined, 3-hr average except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
CO	BAAQMD condition #16676, part 23(b)	Y		2514 lb/turbine during start-up, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 23(b)	Y		44.1 lb/turbine during shutdown	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 32b	Y		6445 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 35b	C	CEM
	BAAQMD condition #16676, part 33b	Y		506.4 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM
CO2		Y		None	40 CFR 75.10	C	fuel flow monitor and CO2 calculation

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-3, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 9-1-301	Y		GLC[1] of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N	
	BAAQMD 9-1-302	Y		300 ppm (dry)		N	
	NSPS 40 CFR 60.43a (b)(2)			0.2 lb/MM BTU, 24 hr average except during startup, shutdown		N	
SO2	NSPS 40 CFR 60.333(b)	Y		< than 0.8% sulfur by weight in fuel	40 CFR 334(h)(3)	P/M or E	Monthly fuel analysis or current, valid purchase contract, tariff sheet or transport-tation contract
	BAAQMD condition #16676, part 14	Y		Fuel sulfur content of 1 gr/100 scf	BAAQMD condition #16676, part 14	P/M	Fuel testing
SO2	BAAQMD condition #16676, part 21g	Y		6.2 lb/hr, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 21g	Y		0.00277 lb/MM BTU, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
SO2	BAAQMD condition #16676, part 32e	Y		282.6 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-3, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD condition #16676, part 33e	Y		47.11 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
Opacity	BAAQMD 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2		N	
PM	NSPS 40 CFR 60.42a(b)	Y		< 20% opacity, 6 minute average, except one six minute period/hr up to 27% opacity		N	
PM10	BAAQMD condition #16676, part 21h	Y		~~16.3~~ 9 lb/hr, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 21h	Y		~~0.0073~~ 0.0040 lb/MM BTU, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 32d	Y		~~742~~ 465 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-3, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM10	BAAQMD condition #16676, part 33d	Y		~~131.6~~ 69.2 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
POC	BAAQMD condition #16676, part 21f	Y		3.8 lb/hr (as CH4) for turbine, and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 21f	Y		0.0017 lb/MM BTU (as CH4) for turbine, and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 23(c)	Y		48 lb/turbine during start-up	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 23(c)	Y		8 lb/turbine during shutdown	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 23(c)	Y		96 lb/turbine during steam turbine cold start-up or combustor tuning period	BAAQMD condition #16676, part 55	P/D	Records, calculations
POC	BAAQMD condition #16676, part 32c	Y		271.3 lb/day (as CH4) for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-3, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD condition #16676, part 33c	Y		33.9 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
NH3	BAAQMD condition #16676, Part 21e	N		10 ppmv, @ 15% O2, dry, averaged over 3 hrs for turbine and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 35c	C	Ammonia injection rate monitor
	BAAQMD condition #16676, Part 21e	N		10 ppmv, @ 15% O2, dry, averaged over 3 hrs for turbine and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 21e	C	Ammonia injection rate monitor
Formal-dehyde	BAAQMD condition #16676, part 34a	N		3817 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 34a	N		3817 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test
Benzene	BAAQMD condition #16676, part 34a	N		460.9 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
Benzene	BAAQMD condition #16676, part 34a	N		460.9 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-3, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Specified PAH's	BAAQMD condition #16676, Part 34c	N		78.5 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
Specified PAH's	BAAQMD condition #16676, Part 34c	N		78.5 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test
Heat input limit	BAAQMD condition #16676, part 15	Y		2,225.1 MM BTU/hr, 3-hr average for S-1, Turbine and S-2, HRSG, total	BAAQMD condition #16676, part 35a	C	Fuel meter, firing monitor, calculations
	BAAQMD condition #16676, part 16	Y		50,738.24 MM BTU/calendar day, for S-1, Turbine and S-2, HRSG, total	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations
	BAAQMD condition #16676, part 17	Y		34,010,400 MM BTU/yr for S-1, S-3, Turbines and S-2, S-4, HRSGs combined	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations
	BAAQMD condition #16676, part 30			109,157 MM BTU/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters
	BAAQMD condition #16676, part 30	Y		109,157 MM BTU/day, for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters
Heat input limit	BAAQMD condition #16676, part 31	Y		34,490,400 MM BTU/yr for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-3, TURBINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Steam turbine cold start-up or combus-tor tuning	BAAQMD condition #16676, part 24	Y		30 hours per year per turbine	BAAQMD condition #16676, part 55	P/H	records

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-4, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-3-303	N		125 ppm	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-9-301.3	Y		9 ppmv @ 15% O2, dry	BAAQMD 9-9-501	C	CEM
NOx	NSPS 40 CFR 60.44a (d)(1)	Y		1.6 lb/MW-hr (rolling 24-hr average)	Monitoring requirement subsumed by monitoring for BACT limit. See Permit Shield.	N	
NOx	NSPS, 40 CFR 60.332 (a)(1)	Y		100 ppmv, @ 15% O2, dry 4-hr average	40 CFR 60.334(c)	C	CEM
		Y		None	40 CFR 75.10	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-4, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD condition #16676, part 21a	Y		20 lb/hr, for turbine and HRSG combined, except during turbine startup or shutdown	BAAQMD condition #16676, part 35b	C	CEM
NOx	BAAQMD condition #16676, part 21a	Y		20 lb/hr, for turbine and HRSG combined, except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum load
	BAAQMD condition #16676, part 21a	***Y***		0.009 lb/MM BTU, for turbine and HRSG combined**,** except during turbine startup or shutdown	BAAQMD condition #16676, part 35b	C	CEM
NOx	BAAQMD condition #16676, part 21a	***Y***		0.009 lb/MM BTU, for turbine and HRSG combined, except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum load
	BAAQMD condition #16676, part 21b	Y		2.5 ppmv, @ 15% O2, dry, for turbine and HRSG combined, 1-hr average except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum load
NOx	BAAQMD condition #16676, part 32a	Y		1342 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 35b	C	CEM
NOx	BAAQMD condition #16676, part 33a	Y		175.7 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-4, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD condition #16676, part 21c	Y		29.2 lb/hr, for turbine and HRSG combined, except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
CO	BAAQMD condition #16676, part 21c	Y		0.0132 lb/MM BTU, for turbine and HRSG combined, except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 21d	Y		6 ppmv, @ 15% O2, dry, for turbine and HRSG combined, 3-hr average except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 32b	Y		6445 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 35b	C	CEM
CO	BAAQMD condition #16676, part 33b	Y		506.4 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM
CO2		Y		None	40 CFR 75.10	C	fuel flow monitor and CO2 calculation
SO2	BAAQMD 9-1-301	Y		GLC[1] of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N	
	BAAQMD 9-1-302	Y		300 ppm (dry)		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-4, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	NSPS 40 CFR 60.43a (b)(2)			0.2 lb/MM BTU, rolling 24-hr average except during turbine start-up, shutdown		N	
SO2	NSPS 40 CFR 60.333(b)	Y		< than 0.8% sulfur by weight in fuel	40 CFR 334(h)(3)	P/M or E	Monthly fuel analysis or current, valid purchase contract, tariff sheet or transport-tation contract
		Y		None	40 CFR 75.11, 40 CFR 75, Appendix D, part 2.3		Fuel measure-ments, calculations
	BAAQMD condition #16676, part 14	Y		Fuel sulfur content of 1 gr/100 scf	BAAQMD condition #16676, part 14	P/M	Fuel testing
SO2	BAAQMD condition #16676, part 21g	Y		6.2 lb/hr, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
SO2	BAAQMD condition #16676, part 21g	Y		0.00277 lb/MM BTU, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-4, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD condition #16676, part 32e	Y		282.6 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 33e	Y		47.11 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
Opacity	BAAQMD 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour		N	
Opacity	BAAQMD 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2		N	
PM	NSPS 40 CFR 60.42a(a) (1)	Y		0.03 lb TSP/MM BTU except during start-up, shutdown, or malfunction		N	
PM10	BAAQMD condition #16676, part 21h	Y		~~16.3~~ 9 lb/hr, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 21h	Y		~~0.0073~~0.0040 lb/MM BTU, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-4, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM10	BAAQMD condition #16676, part 32d	Y		~~742~~ 465 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 33d	Y		~~131.6~~ 69.2 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
POC	BAAQMD condition #16676, part 21f	Y		3.8 lb/hr *(as CH4)* for turbine, and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
POC	BAAQMD condition #16676, part 21f	Y		0.0017 lb/MM BTU *(as CH4)* for turbine, and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load
	BAAQMD condition #16676, part 32c	Y		271.3 lb/day (as CH4) for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 33c	Y		33.9 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
NH3	BAAQMD condition #16676, Part 21e	N		10 ppmv, @ 15% O2, dry, averaged over 3 hrs for turbine and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 35c	C	Ammonia injection rate monitor

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-4, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NH3	BAAQMD condition #16676, Part 21e	N		10 ppmv, @ 15% O2, dry, averaged over 3 hrs for turbine and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 21e	C	Ammonia injection rate monitor
Formal-dehyde	BAAQMD condition #16676, part 34a	N		3817 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
Formal-dehyde	BAAQMD condition #16676, part 34a	N		3817 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test
Benzene	BAAQMD condition #16676, part 34a	N		460.9 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 34a	N		460.9 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test
Specified PAH's	BAAQMD condition #16676, Part 34c	N		78.5 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, Part 34c	N		78.5 lb/yr for turbine, HRSG, and boilers combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test
Heat input limit	BAAQMD condition #16676, part 15	Y		2,225.1 MM BTU/hr, 3-hr average for S-1, Turbine and S-2, HRSG, total	BAAQMD condition #16676, part 35a	C	Fuel meter, firing monitor, calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-4, HEAT RECOVERY STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Heat input limit	BAAQMD condition #16676, part 16	Y		50,738.24 MM BTU/calendar day, for S-1, Turbine and S-2, HRSG, total	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations
	BAAQMD condition #16676, part 17	Y		34,010,400 MM BTU/yr for S-1, S-3, Turbines and S-2, S-4, HRSGs combined	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations
	BAAQMD condition #16676, part 30			109,157 MM BTU/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters
Heat input limit	BAAQMD condition #16676, part 30	Y		109,157 MM BTU/day, for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters
	BAAQMD condition #16676, part 31	Y		34,490,400 MM BTU/yr for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters
Prohi-bited firing	BAAQMD condition #16676, part 18			Duct burner may not be fired if turbine, S-1, is not fired	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-5, AUXILIARY BOILER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-3-303	N		125 ppm	BAAQMD 1-520.1	C	CEM
	BAAQMD 9-7-301.1	Y		30 ppmv @3%O2, dry	BAAQMD 1-520.1	C	CEM
NOx	NSPS 40 CFR 60.44b (a)(4)	Y		0.2 lb/MM BTU except during start-up, shutdown, or malfunction	Monitoring requirement subsumed by monitoring for BACT limit. See Permit Shield.	N	
NOx	NSPS 40 CFR 60.44b (l)(1)	Y		0.2 lb/MM BTU except during start-up, shutdown, or malfunction	Monitoring requirement subsumed by monitoring for BACT limit. See Permit Shield.	N	
	BAAQMD condition #16676, part 28a	Y		3.5 lb/hr except during startup or shutdown	BAAQMD condition #16676, part 35b	C	CEM
	BAAQMD condition #16676, part 28b	Y		9.0 ppmv @ 3% O2, 3-hr average	BAAQMD condition #16676, part 35b	C	CEM
NOx	BAAQMD condition #16676, part 32a	Y		1342 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 35b	C	CEM
NOx	BAAQMD condition #16676, part 33a	Y		175.7 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-5, AUXILIARY BOILER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD 9-7-301.2	Y		400 ppmv @ 3% O2, dry	BAAQMD condition #16676, part 35(b)	C	CEM
	BAAQMD Condition #16676, part 12	Y		233.8 lb/day during commissioning and including start-up	BAAQMD Condition #16676, part 7	Y	CEM
	BAAQMD condition #16676, part 28c			11.8 lb/hr except during startup or shutdown	BAAQMD condition #16676, part 35b	C	CEM
	BAAQMD condition #16676, part 28d			50 ppmv @ 3% O2, 3-hr average	BAAQMD condition #16676, part 35b	C	CEM
	BAAQMD condition #16676, part 32b	Y		6445 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 35b	C	CEM
CO	BAAQMD condition #16676, part 33b	Y		506.4 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM
SO2	BAAQMD 9-1-301	Y		GLC[1] of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N	
SO2	BAAQMD 9-1-302	Y		300 ppm (dry)		N	
SO2	BAAQMD condition #16676, part 25	Y		Fuel sulfur content of 1 gr/100 scf	BAAQMD condition #16676, part 25	P/M	Fuel testing

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-5, AUXILIARY BOILER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD condition #16676, part 28f	Y		0.5 lb/hr	BAAQMD condition #16676, part 40	P/A	Source test at maximum and minimum load
SO2	BAAQMD condition #16676, part 32e	Y		282.6 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
	BAAQMD condition #16676, part 33e	Y		47.11 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
Opacity	BAAQMD 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour		N	
Opacity	BAAQMD 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2		N	
PM10	BAAQMD condition #16676, part 28g	Y		1.6 lb/hr	BAAQMD condition #16676, part 40	P/A	Source test at maximum and minimum load
PM10	BAAQMD condition #16676, part 32d	Y		~~742~~ 465 lb/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-5, AUXILIARY BOILER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD condition #16676, part 33d	Y		~~131.6~~ 69.2 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
POC	BAAQMD condition #16676, part 28e	Y		1.7 lb/hr (as CH4)	BAAQMD condition #16676, part 40	P/A	Source test
POC	BAAQMD condition #16676, part 32c	Y		271.3 lb/day (as CH4) for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations
POC	BAAQMD condition #16676, part 33c	Y		33.9 ton/yr for turbines, HRSGs, and boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations
NH3	BAAQMD condition #16676, Part 28h	N		10 ppmv, @ 3% O2, dry, averaged over 3 hrs	BAAQMD condition #16676, part 28h	C	Records of ammonia injection rate
Heat input limits	BAAQMD condition #16676, part 26	Y		320 MM BTU/hr, 3-hr average	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations
	BAAQMD condition #16676, part 27	Y		480,000 MM BTU/yr			
Heat input limits	BAAQMD condition #16676, part 30			109,157 MM BTU/day for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-5, AUXILIARY BOILER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD condition #16676, part 31	Y		34,490,400 MM BTU/yr for turbines, HRSGs, and boiler combined	BAAQMD condition #16676, part 6	C	Fuel meters

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-6, FIRE PUMP DIESEL ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-303.1	Y		Ringelmann 2.0 for 3 minutes in any hour		N	
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf		N	
SO_2	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: $\leq$ 0.5 ppm for 3 minutes and $\leq$ 0.25 ppm for 60 min. and $\leq$0.05 ppm for 24 hours	None	N	N/A
SO_2	BAAQMD 9-1-304	Y		Fuel Sulfur Limit 0.5%	BAAQMD Condition # 19498, Parts 5 and 8	P/E	Vendor Certification
Hours of Operation	BAAQMD 9-8-330.1	N		Unlimited hours for emergencies	BAAQMD 9-8-530.2	P/M	Records of Operating Hours
Hours of Operation	BAAQMD 9-8-330.2	N		100 hours per year for reliability-related activities	BAAQMD 9-8-530	P/M	Records of Operating Hours

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-6, FIRE PUMP DIESEL ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Heat input	BAAMQD Condition 19939, part 6	N		211 MMbtu over any consecutive 12-month period for maintenance and testing activities	BAAMQD Condition 19939, part 5c	P/M	Records

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-7, NATURAL GAS FIRED EMERGENCY GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-303.1	Y		Ringelmann 2.0 for 3 minutes in any hour		N	
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf		N	
SO_2	BAAQMD Regulation 9-1-301	Y		Property Line Ground Level Limits: $\underline{<}$ 0.5 ppm for 3 minutes and $\underline{<}$ 0.25 ppm for 60 min. and $\underline{<}$0.05 ppm for 24 hours		N	
SO_2	BAAQMD 9-1-304	Y		Fuel Sulfur Limit 0.5%	BAAQMD Condition # 19498, Parts 5 and 8	P/E	Vendor Certification
Hours of Operation	BAAQMD 9-8-330.1	N		Unlimited hours for emergencies	BAAQMD 9-8-530.2	P/M	Records of Operating Hours
Hours of Operation	BAAQMD 9-8-330.2	N		100 hours per year for reliability-related activities	BAAQMD 9-8-530	P/M	Records of Operating Hours

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-8, COOLING TOWER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
	BAAQMD 6-311	Y		40 lb/hr		N	

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD 9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-3-303	New or Modified Heat Transfer Operation Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling
BAAQMD 9-7-301.1	Performance Standard, NOx, Gaseous Fuel	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-301.2	Performance Standard, CO, Gaseous Fuel	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-9-301.3	Emission Limits- Turbines Rated ≥ 10 MW w/SCR	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
NSPS		
Subpart Da	Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced after September 18, 1978	
60.42a (a)(1)	Particulate Limit	EPA Method 5, Determination of Particulate Emissions from Stationary Sources

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
60.42a (b)	Opacity Limit	EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources
60.43a (b)(2)	SO2 limit	EPA Method 19, Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates
60.44a (a)(1)	NOX limit	EPA Method 19, Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates
Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	
60.44b (a)(1)(i)	NOx Limit	EPA Method 19, Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates
Subpart GG	Standards of Performance for Stationary Gas Turbines	
60.332 (a)(1)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.333 (a)	SO2 Volumetric Emission Limit	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.333 (b)	Fuel Sulfur Limit (gaseous fuel)	ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation

IX. TITLE IV ACID RAIN PERMIT

Effective September 6, 2001 through September 6, 2006

ISSUED TO:

Los Medanos Energy Center, LLC
P. O. Box 551
Pittsburg, CA 94565

PLANT SITE LOCATION:
750 East Third Street
Pittsburg, CA 94565

ISSUED BY:

Signed by Peter F. Hess for Jack J. Broadbent _____
Jack P. Broadbent Executive Officer/ Air Pollution Control Officer

Date

Type of Facility: Power Plant
Primary SIC: 4913
Product: Electricity

DESIGNATED REPRESENTATIVE:
Name: William Ferguson
Title: General Manager
Phone: (925) 252-2075

ALTERNATE DESIGNATED REPRESENTATIVE:
Name: David Zeiger
Title: Compliance Manager
Phone: (925) 252-2066

IX. Title IV Acid Rain Permit

ACID RAIN PERMIT CONTENTS

1) Statement of Basis

2) SO_2 allowance allocated under this permit and NOx requirements for each affected unit.

3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements of conditions.

4) The permit application submitted for this source. The owners and operators of the source must comply with the standard requirements and special provisions set forth in he application.

1) STATEMENT OF BASIS

Statutory and regulatory Authorities: In accordance with District Regulation 2, Rule 7 and Titles IV and V of the Clean Air Act, the Bay Area Air Quality Management District issues this permit pursuant to District Rule Regulation 2, Rule 7.

2) SO2 ALLOWANCE ALLOCATIONS

	Year	2001	2002	2003	2004	2005
	SO_2 allowances under Table 2 of 40 CFR Part 73	**None**	**None**	**None**	**None**	**None**
S-1, Turbine	**NOx Limit**	**This unit is not subject to the NOx requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.**				

	Year	2001	2002	2003	2004	2005
	SO_2 allowances under Table 2 of 40 CFR Part 73	**None**	**None**	**None**	**None**	**None**
S-2, Heat Recovery Steam Generator	**NOx Limit**	**This unit is not subject to the NOx requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.**				

IX. Title IV Acid Rain Permit

	Year	2001	2002	2003	2004	2005
	SO_2 allowances under Table 2 of 40 CFR Part 73	**None**	**None**	**None**	**None**	**None**
S-3, Turbine	**NOx Limit**	**This unit is not subject to the NOx requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.**				

	Year	2001	2002	2003	2004	2005
	SO_2 allowances under Table 2 of 40 CFR Part 73	**None**	**None**	**None**	**None**	**None**
S-4, Heat Recovery Steam Generator	**NOx Limit**	**This unit is not subject to the NOx requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.**				

3) COMMENTS, NOTES AND JUSTIFICATIONS

None

4) PERMIT APPLICATION

Attached

X. PERMIT SHIELD

A. Non-applicable Requirements

None.

B. Subsumed Requirements

Pursuant to District Regulations 2-6-233.2 and 2-6-409.12, as of the date this permit is issued, the federally enforceable monitoring, recordkeeping, and reporting requirements cited in the following table for the source or group of sources identified at the top of the table[s] are subsumed by the monitoring, recordkeeping, and reporting for more stringent requirements or by a "hybrid" monitoring scheme. The District has determined that compliance with the requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the subsumed monitoring requirements. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the subsumed monitoring requirements cited.

Table X B - 1
Permit Shield for Subsumed Requirements
S-1, S-3, TURBINES
S-2, S-4, HEAT RECOVERY STEAM GENERATORS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD 2-6-409.2	New Source NOx Emission Limit in 40 CFR 60.44a(d)(1)	BAAQMD Condition 16676, part 39	Continuous emission monitoring for 2.5 ppmv limit @ 15% oxygen
40 CFR 60.334(c)	Requirement for CEM	BAAQMD Condition 16676, Part 6	Requirement for continuous emission monitor for NOx

X. Permit Shield

Table X B - 2
Permit Shield for Subsumed Requirements
S-5, AUXILIARY BOILER

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
40 CFR 60.48b(b)	Continuous Monitoring of Nitrogen Oxides	BAAQMD Condition 16676, part 6	Requirement for continuous emission monitor for NOx

XI. REVISION HISTORY

Final Title V Permit Issuance (Application 2804): September 6, 2001

Significant Revision (Application 7081): January 13, 2004

Purpose: to increase the time allowed for a cold startup of a steam turbine from 180 minutes per event to 360 minutes per event and to allow the turbines to exceed the general NOx and CO limits during infrequent tune-ups.

Reopening (Application 10470): November 9, 2004

- Addition of Diesel Fire Pump (S-6) and Natural Gas Fired Emergency Generator (S-7)
- Addition of Cooling Tower (S-8)
- Addition of MW rating for duct burners, S-2 and S-4
- Addition of application shield language to Standard Condition I.B.1.
- Update of rule amendment dates throughout permit.
- Update of Section III, Generally Applicable Requirements
- Addition of requirements from Regulation 1-520 to S-1 and S-3, Turbines.
- Deletion of Regulation 6-401 from gas-fired equipment, S-1 through S-5.
- Addition of Regulation 9, Rule 3, Section 303 to Section IV and Section VII tables for S-1 and S-3, Turbines.
- Addition of Regulation 9, Rule 3, Section 303 to Section VII tables for S-2 and S-4, Duct Burners.
- Update of requirements in 40 CFR 60, Subpart GG, Stationary Gas Turbines.
- Correction of citations of requirements from 40 CFR 60, Subpart Db, Electric Utility Steam Generating Units for Which Construction Is Commenced after September 18, 1978
- Deletion of commissioning conditions
- Deletion of obsolete conditions
- Revision of permit shields
- Deletion of 40 CFR 75 from Section VII table for S5, Auxiliary Boiler

XII. GLOSSARY

ACT
Federal Clean Air Act

BAAQMD
Bay Area Air Quality Management District

BACT
Best Available Control Technology

CAA
The federal Clean Air Act

CAAQS
California Ambient Air Quality Standards

CEQA
California Environmental Quality Act

CFR
The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

CO
Carbon Monoxide

Cumulative Increase
The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

District
The Bay Area Air Quality Management District

EPA
The federal Environmental Protection Agency.

Excluded
Not subject to any District regulations.

Federally Enforceable, FE

XI. Glossary

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP
Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

HAP
Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

HRSG
Heat Recovery Steam Generator

Major Facility
A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

MFR
Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Federal Clean Air Act and implemented by District Regulation 2, Rule 6.

MOP
The District's Manual of Procedures.

NAAQS
National Ambient Air Quality Standards

NESHAPS
National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63

NMHC
Non-methane Hydrocarbons

NOx
Oxides of nitrogen.

NSPS
Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Federal Clean Air Act, and

XI. Glossary

implemented by 40 CFR Part 60 and District Regulation 10.

NSR
New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement
A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NOx, PM10, and SO2.

Phase II Acid Rain Facility
A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

POC
Precursor Organic Compounds

PM
Particulate Matter

PM10
Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

PSD
Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

SIP
State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO2
Sulfur dioxide

Title V
Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

XI. Glossary

TRMP
Toxic Risk Management Plan

TSP
Total Suspended Particulate

VOC
Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m^2	=	square meter
min	=	minute
mm	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year

XIII. APPLICABLE STATE IMPLEMENTATION PLAN

The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region 9's website. The address is:

http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1

XIV. TITLE IV PERMIT APPLICATION