Bay Area Air Quality Management District

939 Ellis Street<u>375 Beale Street, Suite 600</u> San Francisco, CA 94109<u>5</u> (415) 771-6000<u>749-5000</u>

Final Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To: Creed Energy Center, LLC Facility # B4414

> Facility Address: 6150 Creed Road Suisun City, CA 94585

Mailing Address:

2425 Cordelia Road Fairfield, CA 94534

Responsible Official

Facility Contact

Fernando ParraAndrew Gundershaug, Plant Manager Bob IbrahimAllison Bryan, Operations ManagerPlant Engineer

393-399-4393707-399-4393

Electricity

<u>Operations Manager</u>Plant Engineer 707-399-4395

Type of Facility: Primary SIC: Generation of Electricity 4911

BAAQMD Permit Division Contact: <u>Madhav Patil</u> <u>Simrun Dhoot</u>, Air Quality Engineer

Product:

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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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 5/4/11); 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 <u>3/4/09_12/19/12, effective 8/31/16</u>); <u>SIP Regulation 2, Rule 1 - Permits, General Requirements</u>

(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

 (as amended by the District Board on 6/15/05 12/19/12, effective 8/31/16);

 SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 1/26/99); BAAOMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on <u>12/21/04_12/19/12</u>); SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 1/26/99); and BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants

(as amended by the District Board on <u>1/6/10_12/07/16</u>); BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review

(as amended by the District Board on 4/16/03); and SIP Regulation 2, Rule 6 – Permits, Major Facility Review

(as approved by EPA through 6/23/95).

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

- This Major Facility Review Permit was issued on February 27, 2012, and expires on February 26, 2017. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than August 26, 2017 and no earlier than February 26, 2016. If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after February 26, 2017. If the permit renewal has not been issued by February 26, 2017, 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. (BAAQMD Regulation 2-6-307, 404.2, & 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. (BAAQMD 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 Volume II, Part 3, \$4.11)

- 4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (BAAQMD 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 reissuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (BAAQMD 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. (BAAQMD Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 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. (BAAQMD Regulation 1-441, BAAQMD Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
- 8. Any records required to be maintained pursuant to this permit, which the permittee considers to contain 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. (BAAQMD 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. (BAAQMD Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)

12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (BAAQMD Regulation 2-6-307)

C. Requirement to Pay Fees

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

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. (BAAQMD Regulation 1-440, BAAQMD Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

- The permit holder must provide any information, records, and reports requested or specified by the APCO. (BAAQMD Regulation 1-441, BAAQMD 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. (BAAQMD Regulation 2-6-501, ; 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. Reports shall be for the following periods: JanuaryMay 1st through OctoberJune 3130stth and NovemberJuly 1st through April 30thDecember 31st, and are due on the last day of the month after the end of the reporting period. A report shall be submitted for the following period: Date of issuance of renewal to June 30th or December 31st. 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 and any corrective or preventative actions. The reports shall be sent_by e-mail to compliance@baaqmd.gov or by postal mail to the following address:

Director of Compliance and Enforcement Bay Area Air Quality Management District 939 Ellis Street<u>375 Beale Street, Suite 600</u> San Francisco, CA 9410<u>5</u>9 Attn: Title V Reports

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

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 December 1st through November 30th. The certification shall be submitted by December 31st 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 should be sent by e-mail to r9.aeo@epa.gov or postal mail to the Environmental Protection Agency at the following address:

Director of the Air Division Enforcement Division, TRI & Air Section (ENF-2-1) USEPA, Region IX9 75 Hawthorne Street San Francisco, CA 94105 <u>Attention: Air-3</u>

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

H. Emergency Provisions

- The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by BAAQMD Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in BAAQMD Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with BAAQMD 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. (BAAQMD Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

J. Miscellaneous 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 BAAQMD Regulation 2, Rule 1, Section 301. (BAAQMD 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 BAAQMD Regulation 2, Rule 6. (40 CFR Part 68, BAAQMD Regulation 2, Rule 6)

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

- 1. Every year starting January 30, 2003, the permit holder shall hold one sulfur dioxide allowance on March 1 (February 29th during leap year) 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. (BAAQMD 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. (BAAQMD Regulation 2-7, Acid Rain)
- 4. The permit holder shall monitor SO2 emissions in accordance with 40 CFR Part 72 and 75. (BAAQMD Regulation 2-7, Acid Rain)
- 5. The permit holder shall submit quarterly Electronic Data Reports (EDRs) to EPA for Turbine S-1. 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.1 and BAAQMD Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
1	Gas Turbine Generator, Natural	General Electric	LM6000PC	500 MMBtu/hour (HHV)
	Gas with water injection'			
	nominal 49.9 MW			
2	Diesel Driven Firewater Pump	Clarke	JU4H-UF40	94 BHP

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A- #	Description	Controlled	Requirement	Parameters	Efficiency
1	Oxidation catalyst	1	BAAQMD	All conditions except	CO ≤ 6 ppm
			Condition	startup and shutdown	$POC \le 2 ppm$
			#20136 Part		
			18.3 &18.4		
2	Selective Catalytic	1	BAAQMD	All conditions except	NOx ≤ 2.5
	Reduction System		Condition	startup and shutdown	ppm
			#20136 Part		
			18.1		

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
3	Cooling Tower	Marley	NC8312HL2	4,160 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 will 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.

Unpermitted sources are exempt from normal District permits pursuant to an exemption in BAAQMD Regulation 2, Rule 1. They may, however, be specifically described in a Title V permit if they are considered significant sources pursuant to the definition in BAAQMD Rule 2-6-239.

Portable equipment operating in accordance with the ARB portable equipment registration program and temporary equipment such as sandblasting equipment may be operated at the facility as long as the source is not significant under Rule 2-6-239. Otherwise, significant sources would need to be included in the Title V permit.

The dates in parenthesis 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 website. The address is http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions.

NOTE:

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

III. Generally Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable
Requirement	Description of Requirement	(Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (3/4/09)	N
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y
BAAQMD 2-1-429	Federal Emissions Statement (12/21/04)	N
SIP Regulation 2-1-429	Federal Emissions Statement (4/3/95)	Y
BAAQMD Regulation 2, Rule 2	Permits, New Source Review (6/15/05)	N
SIP Regulation 2, Rule 2	Permits, New Source Review (1/26/99)	¥
BAAQMD Regulation 2, Rule 4	Permits, Emissions Banking (12/21/04)	N
SIP Regulation 2, Rule 4	Permits, Emissions Banking (01/26/99)	¥
BAAQMD Regulation 2, Rule 5	New Source Review of Toxic Air Contaminants (1/6/10)	N
BAAQMD Regulation 2, Rule 6	Permits, Major Facility Review (4/16/03)	N
SIP Regulation 2, Rule 6	Permits, Major Facility Review (6/23/95)	¥
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/6/90)	Y
BAAQMD Regulation 5	Open Burning (7/09/08))	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/07)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	Ν
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/05)	Ν
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (<u>11/21/017/1/09</u>)	<u>N</u> ¥
SIP Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (1/2/04)	<u>Y</u>
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds- Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	N

Table IIIGenerally Applicable Requirements

III. Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
SIP Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and	Y
	Removal of Underground Storage Tanks (4/19/01)	
BAAQMD Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor	Ν
	Extraction Operations (6/15/05)	
SIP Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor	Y
	Extraction Operations (4/26/95)	
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	Ν
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	Ν
	(7/17/02)	
SIP Regulation 8, Rule 51	Organic Compounds – Adhesive and Sealant Products	Y
	(2/26/02)	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)	Ν
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation	Ν
	and Manufacturing (10/7/98)	
BAAQMD Regulation 11, Rule 18	Reduction of Risk from Air Toxic Emissions at Existing	<u>N</u>
	Facilities (11/15/17)	
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting	Ν
	(7/11/90)	
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting	Y
	(9/2/81)	
California Health and Safety Code	Portable Equipment	Ν
Section 41750 et seq.		
California Health and Safety Code	Air Toxics "Hot Spots" Information and Assessment Act	Ν
Section 44300 et seq.	of 1987	
California Health and Safety Code	Airborne Toxic Control Measure for Stationary	Ν
Title 17, Section 93115	Compression Ignition Engines	
California Health and Safety Code	Airborne Toxic Control Measure for Diesel Particulate	Ν
Title 17, Section 93116	Matter from Portable Engines Rated at 50 Horsepower	
	and Greater	
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air	Y
	Pollutants - National Emission Standard for Asbestos	
	(6/19/95)	
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	

Table IIIGenerally Applicable Requirements

III. Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
Subpart F, 40 CFR 82.156	Leak Repair	Y
Subpart F, 40 CFR 82.161	Certification of Technicians	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant	Y

Table IIIGenerally Applicable Requirements

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

- 1. BAAQMD regulations: 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. Additionally, where an applicable requirement is a SIP requirement, the full language of the SIP requirement is on the EPA Region 9 website. The address is

<u>http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+</u> <u>Area+Air+Quality+Management+District-Agency-Wide+Provisions</u>. All other text may be found in the regulations themselves.

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
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	

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
1-523.3	Reports of Violations	Ν	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	Ν	
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,	Regulation 2, Rule 1 - Permits, General Requirements (11/19/08)		
Rule 1			
2-1-501	Monitors	Y	
BAAQMD	Particulate Matter, General Requirements (12/05/07)		
Regulation 6,			
Rule 1			
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (09/04/98)		
Regulation 6			
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD			
Regulation9,	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
Rule 1		57	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
<u>SIP Regulation</u> 9	Inorganic Gaseous Pollutants (06/08/99)		
<u>9</u> <u>9-1-301</u>	Limitation on Ground Level Concentrations	v	
7 1-301	Exhibition on Oround Lever Concentrations	<u>Y</u>	I

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>9-1-302</u>	General Emission Limitations	<u>Y</u>	Date
BAAQMD	Inorganic Gaseous Pollutants-Nitrogen Oxides from Stationary	4	
Regulation 9,	Gas Turbines (12/06/06)		
Rule 9			
9-9-113	Exemption – Inspection/Maintenance	Ν	
9-9-114	Exemption – Start-Up/Shutdown	Ν	
9-9-301	Emission Limits, General	Ν	
9-9-301.1.3	Emission Limits- Turbines Rated ≥ 10 MW w/SCR	Ν	
9-9-301.2	Emission Limits - Turbine heat input rated > 250 – 500 MM Btu/hr	Ν	
9-9-501	Monitoring and recordkeeping requirements	Ν	
SIP Regulation 9, Rule 9	Inorganic Gaseous Pollutants-Nitrogen Oxides from Stationary Gas Turbines (12/15/97)		
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		Y	
Manual of Procedures,	Continuous Emission Monitoring Policy and Procedures (1/20/82)		
Volume V			
40 CFR 60	Standards of Performance for New Stationary Sources (12/23/71)	Y	
Subpart A	General Provisions	Y	
<u>60.4(a)</u>	Reports to EPA	<u>Y</u>	
<u>60.4(b)</u>	Reports to EPA	<u>Y</u>	
60.7	Notification and Recordkeeping	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	

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Subpart GG	Standards of Performance for Stationary Gas Turbines (2/24/06)	(2111)	2.000
60.332(a)(1)	Standard for Nitrogen Oxides	Y	
60.333	Standard for Sulfur Dioxide	Y	
60.333(a)	SO ₂ Concentration < 0.015 percent @ 15% O ₂ (Turbine Only)	Y	
60.333(b)	Standard for Sulfur Dioxide – Fuel Sulfur Content Limit	Y	
60.334	Monitoring of operations – CEM requirements	Y	
60.334 ((b)	NO _x CEMs for water/steam injected turbines	Y	
60.334(h)(1)	Exemption from Monitoring of fuel sulfur content	¥	
60.334(h)(2)	Exemption from Monitoring of fuel nitrogen content	¥	
<u>60.334(h)(3)</u>	Exemption from Monitoring of fuel sulfur content	<u>Y</u>	
60.334(j)(1)	NOx Excess Emissions and Monitor Downtime reporting	Y	
(iii)	requirements		
60.335	Test Methods and Procedures	Y	
40 CFR	Permits Regulation (Title IV – Acid Rain Program)	Y	
Part 72			
	Subpart A – Acid Rain Program General Requirements		
72.6	Applicability	Y	
72.6(a)(3)	New utility unit (at the time of commencement of commercial operation)	Y	
72.9	Standard Requirements	Y	
72.9(a)	Permit Requirements	Y	
72.9(a)(1)(i)	Submittal of a complete acid rain permit application	Y	
72.9(a)(1)(iii)	Submittal of information in a timely manner	Y	
72.9(a)(2)(i)	Operation in compliance with Acid Rain permit	Y	
72.9(a)(2)(ii)	Have an Acid Rain Permit	Y	
72.9(b)	Monitoring Requirements	Y	
72.9(c)	Sulfur Dioxide Requirements	Y	
72.9(c)(1)	Requirement to hold allowances as of allowance transfer deadline	Y	
72.9(c)(2)	Each ton of excess SO2 emissions is a separate violation of the CAA	Y	
72.9(c)(3)	Initial deadline to hold allowances	Y	
72.9(c)(3)(iv)	Deadline at time of monitor certification	Y	
72.9(c)(4)	Use of Allowance Tracking System	Y	
72.9(c)(5)	Allowances may not be deducted prior to year for which allowance was allocated	Y	

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
72.9(c)(6)	Limited authorization	Y	
72.9(d)	Nitrogen Oxide Requirements	Y	
72.9(e)	Excess emissions requirements	Y	
72.9(f)	Recordkeeping and Reporting Requirements	Y	
72.9(g)	Liability	Y	
72.9(h)	Effect on Other Authorities	Y	
	Subpart C – Acid Rain Permit Applications		
72.30(a)	Requirement to apply	Y	
72.30(c)	Duty to reapply. Requirement to submit complete acid rain application 6 months prior to expiration of current acid rain permit.	Y	
72.31	Information requirements for Acid Rain permit applications	Y	
72.31(a)	Identification of affected source	Y	
72.31(b)	Identification of each affected emissions unit	Y	
72.31(c)	Complete compliance plan	Y	
72.31(d)	Standard requirements under 40 CFR 72.9	Y	
72.31(e)	If the Acid Rain permit application is for Phase II and the unit is a new unit, the date that the unit has commenced or will commence operation and the deadline for monitor certification.	Y	
72.32	Permit application shield and binding effect of permit application	Y	
	Subpart E – Acid Rain Permit Contents		
72.50	General	Y	
72.50(a)	Acid Rain Permits	Y	
72.50(a)(1)	Permits must contain all elements of complete Acid Rain Application under 40 CFR 72.31	Y	
72.50(b)	Permits include terms in 40 CFR 72.2	Y	
72.51	Permit Shield	Y	
40 CFR	Continuous Emissions Monitoring	Y	
Part 75			
	Subpart A – General	Y	
75.2	Applicability	Y	
75.2(a)	Applicability to affected units subject to Acid Rain emission limitations	Y	
75.4	Compliance Dates	Y	

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
75.4(b)	New affected unit (at the time of the commencement of commercial operation) shall ensure that all monitoring systems required under this part for monitoring of SO ₂ , NO _x , CO ₂ , opacity, and volumetric flow are installed and all certification tests are completed on or before the later of the following dates	Y	
75.4(b)(2)	The earlier of 90 unit operating days or 180 calendar days after the date the unit commences commercial operation, notice of which date shall be provided under subpart G of this part.	Y	
75.5	Prohibitions	Y	
	Subpart B – Monitoring Provisions	Y	
75.10	General Operating Requirements	Y	
75.10(a)	Primary Measurement Requirement	Y	
75.10(a)(1)	SO2 Emissions, except as provided in §§75.11 and 75.16 and subpart E of this part	Y	
75.10(a)(2)	NOx Emissions, except as provided in §§75.12 and 75.17 and subpart E of this part	Y	
75.10(a)(3)	CO2 Emissions	Y	
75.10(a)(3)(ii)	CO2 Emissions estimated using Carbon Content of fuel and procedures in Appendix G.	Y	
75.10 (a)(4)	Opacity Monitoring, except as provided in §§75.14 and 75.18	Y	
75.10(b)	Primary Equipment Performance Requirements	Y	
75.10(c)	Heat Input Rate Measurement Requirement	Y	
75.10(d)	Primary equipment hourly operating requirements	Y	
75.10(d)(1)	Cycles of operation for each 15 minute period. Hourly average calculated from a minimum of four 15 minute periods.	Y	
75.10(d)(3)	Validity of data and data substitution	Y	
75.10(f)	Minimum measurement capability requirement	Y	
75.10(g)	Minimum recording and recordkeeping requirements	Y	
75.11	Specific provisions for monitoring SO ₂ emissions	Y	
75.11(d)	Gas-fired and oil-fired units	Y	
75.11(d)(2)	Allows the use of Appendix D Optional SO2 Emissions Data Protocol for Gas-Fired and Oil-Fired Units to monitor SO2 emissions.	Y	
75.12	Specific provisions for monitoring NOx emission rate	Y	
75.12(a)	NOx continuous emission monitor and diluents monitoring requirement	Y	
75.12(c)	NOx mass emission rate determination according to Appendix F	Y	

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
75.13	Specific provisions for monitoring CO2 emissions	Y	
75.13(b)	Determination of CO2 emissions using Appendix G	Y	
75.14	Specific Provisions for monitoring opacity	Y	
75.14(c)	Gas-Fired Units Exempt from Opacity Monitoring	Y	
	Subpart C – Operation and Maintenance Requirements	Y	
75.20	Initial certification and recertification procedures	Y	
75.20(a)	Initial certification and approval process	Y	
75.20(b)	Recertification approval process	Y	
75.20(c)	Initial certification and recertification procedures	Y	
75.20(g)	Initial certification and recertification procedures for excepted monitoring systems under appendices D and E	Y	
75.21	Quality assurance and quality control requirements	Y	
75.21(a)	Continuous emission monitoring systems	Y	
75.21(c)	Calibration gases	Y	
75.21(d)	Notification for periodic Relative Accuracy Test Audits	Y	
75.21(e)	Consequences of audits	Y	
75.22	Reference test methods	Y	
75.24	Out-of-control periods and adjustment for system bias	Y	
	Subpart D – Missing Data Substitution Procedures	Y	
75.30	General Provisions	Y	
75.30(a)	Owner/operator shall provide substitute data for each affected unit using a continuous emission monitor according to this subpart whenever the unit is combusting fuel.	Y	
75.31	Initial missing data procedures	Y	
75.32	Determination of monitor data availability for standard missing data procedures	Y	
75.33	Standard missing data procedures for SO, NO, Hg, and flow rate	Y	
75.33(a)	Following initial certification and after following initial missing data procedures for 2,160 quality assured operating hours for NOx continuous emissions monitors system the owner/operator shall follow the data substitution procedures in paragraph (b) and (c) of this section.	Y	
75.33(c)	Volumetric flow rate, NOx emission rate and NOx concentration data	Y	
75.34	Units with add-on emission controls	Y	
75.35	Missing data procedures for CO2	Y	

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
75.36	Missing data procedures for heat input rate determinations	Y	
	Subpart F – Recordkeeping Requirements	Y	
75.53	Monitoring plan	Y	
75.53(a)	General provisions	Y	
75.53(b)	Updates to monitoring plan	Y	
75.53(e)	Contents of monitoring plan	Y	
75.53(f)	Contents of monitoring plan for specific situations	Y	
75.53(g)	Contents of the monitoring plan after January 1, 2009	Y	
75.53(h)	Contents of monitoring plan for specific situations	Y	
75.57	General recordkeeping provisions	Y	
75.57(a)	General recordkeeping provisions for affected sources	Y	
75.57(b)	Operating parameter record provisions. The owner or operator shall record for each hour the following information on unit operating time, heat input rate, and load, separately for each affected unit.	Y	
75.57(c)	SO2 emission record provisions	Y	
75.57(d)	NOx emission record provisions	Y	
75.57(e)	CO2 emission record provisions	Y	
75.57(g)	Diluents record provisions	Y	
75.57(h)	Missing data records	Y	
75.58	General recordkeeping provisions for specific situations	Y	
75.58(b)	Specific parametric data record provisions for calculating substitute emissions data for units with add-on emission controls	Y	
75.58(c)	Specific SO2 emission record provisions for gas-fired or oil-fired units using optional protocol in appendix D to this part. In lieu of recording the information in §75.57(c), the owner or operator shall record the applicable information in this paragraph for each affected gas-fired or oil-fired unit for which the owner or operator is using the optional protocol in appendix D to this part for estimating SO2 mass emissions	Y	
75.59	Certification, quality assurance, and quality control record provisions	Y	
75.59(a)	Continuous emission or opacity monitoring systems	Y	

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
75.59(b)	Accepted monitoring systems for gas-fired and oil-fired units. The	Y	
	owner or operator shall record the applicable information in this		
	section for each excepted monitoring system following the		
	requirements of appendix D to this part or appendix E to this part for		
	determining and recording emissions from an affected unit.		
75.59(c)	Except as otherwise provided in §75.58(b)(3)(i), units with add-on	Y	
	SO_2 or NO_X emission controls following the provisions of		
	§75.34(a)(1) or (a)(2), and for units with add-on Hg emission		
	controls, the owner or operator shall keep the following records on- site in the quality assurance/quality control plan required by section 1		
	of appendix B to this part:		
75.59(f)	DAHS Verification. For each DAHS (missing data and formula)	Y	
75.57(1)	verification that is required for initial certification, recertification, or	1	
	for certain diagnostic testing of a monitoring system, record the date		
	and hour that the DAHS verification is successfully completed. (This		
	requirement only applies to units that report monitoring plan data in		
	accordance with §75.53(g) and (h).)		
	Subpart G – Reporting Requirements	Y	
75.60	General Provisions	Y	
75.61	Notifications	Y	
75.62	Monitoring plan submittals	Y	
75.63	Initial certification or recertification application	Y	
75.64	Quarterly reports	Y	
75.66	Petitions to the administrator	Y	
BAAQMD	Conditions to the Permit to Operate for S-1 Combustion Gas		
Condition	Turbine		
#20136			
Definitions	Definitions	Y	
Part 1	Deleted		
Part 2	Deleted		
Part 3	Deleted		
Part 4	Deleted		
Part 5	Deleted		
Part 6	Deleted		
Part 7	Deleted		
Part 8	Deleted		

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 9	Deleted	(1/1)	Date
Part 10	Deleted		
Part 11	Consistency with analyses (BAAQMD Regulation 2-1-403)	Y	
Part 12	Conflicts between conditionparagraphss (BAAQMD Regulation 1-	Y	
Turt 12	102)		
Part 13	Reimbursement of costs (BAAQMD Regulation 2-1-303)	Y	
Part 14	Access to Records and Facilities	Y	
	(BAAQMD Regulation 1-440, 1-441)		
Part 15	Deleted		
Part 16	Operations (BAAQMD Regulation 2-1-403)	Y	
Part 17	Visible emissions (BAAQMD Regulation 6-301)	Y	
Part 18	Emission Limits		
Part 18.1	Emission Limit for NOX (BAAQMD Regulation 2-2-301 BACT)	Y	
Part 18.2	Emission Limit for ammonia (BAAQMD Regulation 2-2-301 BACT)	Ν	
Part 18.3	Emission Limit for carbon monoxide (BAAQMD Regulation 2-2-301 BACT)	Y	
Part 18.4	Emission Limit for precursor organic compounds (BAAQMD Regulation 2-2-301 BACT)	Y	
Part 18.5	Emission Limit for PM10 (BAAQMD Regulation 2-2-301 BACT, cumulative increase)	Y	
Part 18.6	Emission Limit for SOX (BAAQMD Regulation 2-2-301 BACT, cumulative increase)	Y	
Part 19	Turbine Startup (cumulative increase)	Y	
Part 20	Turbine Shutdown (cumulative increase)	Y	
Part 21	Mass emission limits (cumulative increase)	Y	
Part 22	Operational Limits (cumulative increase)	¥	
Part 22(a)(i)	Hourly heat input limit (cumulative increase)	<u>Y</u>	
Part 22(a)(i)(ii)	Daily heat input limit (cumulative increase)	<u>Y</u>	
Part 22(a)(i)(iii)	Annual heat input limit (cumulative increase)	<u>Y</u>	
Part 22(a)(i)(iv)	Annual heat input limit (Basis: CCR Title 20, Chapter 11, Article 1, Section 2902)	<u>N</u>	
Part 22(b)	Requirement for PUC quality natural gas (cumulative increase)	<u>Y</u>	
Part 22(c)	Requirement for CEM (cumulative increase)	<u>Y</u>	

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 23	Monitoring requirements (Cumulative Increase, BACT, BAAQMD Regulation 2-1-403, BAAQMD Regulation 9-1-302, 40 CFR 75, 40 CFR 60)	Y	
Part 24	Source testing/RATA (40 CFR 60, BAAQMD Manual of Procedures Volume IV)	Y	
Part 25	Quality assurance program (40 CFR Part 75, Appendix B and 40 CFR Part 60, Appendix F)	Y	
Part 26	Deleted		
Part 27	Breakdowns (BAAQMD Regulation 1-208)	Y	
Part 28	Breakdown reports (BAAQMD Regulation 1-208)	Y	
Part 29a	Records of fuel use and heat input (cumulative increase)	Y	
Part 29b	Records of startups, shutdowns, and malfunctions (BAAQMD Regulation 2-2-301 BACT, cumulative increase)	Y	
Part 29c	Records of emission measurements (BAAQMD Regulation 2-2-301 BACT, cumulative increase, 40 CFR 60, 40 CFR 75)	Y	
Part 29d	Records of hours of operation (cumulative increase)	Y	
Part 29e	Records of NOX, CO, and ammonia emissions (BAAQMD Regulation 2-2-301 BACT)	Y	
Part 29f	Records of continuous emission monitoring systems (BAAQMD Regulation 1-522)	Y	
Part 30	Records retention for five years (BAAQMD Regulation 2-6-501)	Y	
Part 31a	Reports of fuel use and heat input (cumulative increase)	Y	
Part 31b	Reports of mass emission rates (BAAQMD Regulation 2-2-301 BACT, cumulative increase)	Y	
Part 31c	Reports of excess emissions (BAAQMD Regulation 2-2-301 BACT, cumulative increase)	Y	
Part 31d	Reports of nature and cause of excess emissions (BAAQMD Regulation 2-2-301 BACT, cumulative increase)	Y	
Part 31e	Reports of continuous emission monitoring systems downtime (BAAQMD Regulation 1-522)	Y	
Part 31f	Negative declarations (BAAQMD Regulation 2-2-301 BACT, cumulative increase)	Y	
Part 31g	Reports of fuel analyses (cumulative increase, 40 CFR 75)	Y	
Part 32	District Operating permit (BAAQMD Regulation 2, Rule 2, BAAQMD Regulation 2, Rule 6)	Y	
Part 33	Deleted		

Table IV - BSource-specific Applicable RequirementsS-2 DIESEL FIREWATER PUMP

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Regulation 6	Particulate Matter General requirements (12/05/07)		
Rule 1			
6-1-30 <u>3</u> 2	Ringelmann No. 2 Limitation	N	
6-1-305	Visible Particulates	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	Ν	
SIP	Particulate Matter and Visible Emissions (09/04/98)		
Regulation 6			
6-30 <u>23</u>	Ringelmann Number 2 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
Regulation			
9, Rule 1			
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
SIP Regulation	Inorganic Gaseous Pollutants, Sulfur Dioxide (06/08/99)		
<u>9, Rule 1</u>			
<u>9-1-301</u>	Limitation on Ground Level Concentrations	<u>Y</u>	
<u>9-1-304</u>	Fuel Burning (Liquid and Solid Fuels)	<u>Y</u>	
BAAQMD	Inorganic Gaseous Pollutants (7/25/07)		
Regulation			
9, Rule 8			
9-8-110.5	Limited Exemption Emergency Standby Engines	Ν	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Unlimited hours for emergency use	N	
9-8-330.2	100 hours for reliability and maintenance	N	
9-8-330.3	50 hours for reliability and maintenance	N	1/1/12
9-8-530	Emergency standby engines, monitoring and recordkeeping	N	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
40 CFR Part 63	National Emissions Standards for Hazardous Air Pollutants for		
Subpart A	Source Categories, Subpart A – General Provisions		
63.1	General Applicability of the General Provisions	Y	
63.2	Definitions	Y	

Table IV - BSource-specific Applicable RequirementsS-2 DIESEL FIREWATER PUMP

A		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.3	Units and Abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.6(a)	Compliance with standards and maintenance requirements -	Y	
	Applicability		
63.6(c)	Compliance dates for existing sources	Y	
63.6(f)(2)	Methods for determining compliance	Y	
63.6(f)(3)	Finding of compliance	Y	
63.6(g)	Use of an alternative nonopacity emission standard	Y	
63.6(i)	Compliance extension procedures and criteria	Y	
63.6(j)	Presidential compliance exemption	Y	
63.10(a)	Recordkeeping and reporting requirements, applicability and general	Y	
	information		
63.10(b)(1)	Record retention	Y	
63.10(f)	Administrator waiver of recordkeeping or reporting requirements	Y	
63.12	State authority and delegations	Y	
63.13	Addresses of air pollution control agencies and EPA Regional	Y	
00.10	Offices		
63.14	Incorporation by reference	Y	
63.15	Availability of information and confidentiality	Y	
40 CFR Part 63	National Emissions Standards for Hazardous Air Pollutants for		
Subpart ZZZZ	Stationary Reciprocating Internal Combustion Engines (RICE)		
63.6585	Applicability	Y	
63.6585(a)	Applicable to stationary RICE	Y	
63.6585(c)	Applicable to stationary RTCD	Y	
63.6590(a)(1)(iii)	Affected source under stationary RICE located at an area source of	Y	
03.0390(a)(1)(III)	HAP emissions, constructed before 6/12/06	1	
63.6590(a)(1)(iii)	Affected source under stationary RICE located at an area source of	Y	
05.0590(a)(1)(11)	HAP emissions, constructed before 6/12/06	1	
(2,(505(-)))		Y	5/2/12
63.6595(a)	Comply with applicable emission limitations and operating	1	5/3/13
(2,(505())	limitations by $5/3/13$.	Y	<u>5/3/13</u>
63.6595(c)	Comply with applicable notification requirements in 63.6645 and 40	Ĩ	3/3/13
(2,((22)))	CFR Part 63, subpart A	V	5/0/10
63.6603(a)	Comply with requirements of Table 2d, Part 4 (operating limitations	Y	5/3/13
	of Tables 1b and 2b do not apply):		
	1. Change oil & filter every 500 hours of operation or annually,		
	whichever comes first. Oil analysis program may be used to extend		
	period.		
	2. Inspect all hoses and belts every 500 hours or annually, whichever		
	comes first, and replace as necessary.		

Table IV - BSource-specific Applicable RequirementsS-2 DIESEL FIREWATER PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6605	General Requirements	Y	5/3/13
	1. Must be in compliance with applicable emission limitations and		
	operating limitations		
	2. Operate engine in a manner consistent with safety and good air		
	pollution control practices to minimize emissions.		
63.6625(e)(3)	Maintain RICE and abatement controls according to manufacturer's	Y	5/3/13
	instructions or develop own plan.		
63.6625(h)	Minimize idling, and minimize startup time to not exceed 30	Y	5/3/13
	mintutes.		
63.6640(a)	Demonstrate compliance with the requirements of Table 2d	Y	5/3/13
	according to work or management practices of Table 6, Part 9a.		
63.6640(b)	Report deviations from the requirements of Table 2d.	Y	5/3/13
63.6640(e)	Report non-compliance with the any applicable requirement of Table 8.	Y	5/3/13
63.6640(f)	Comply with requirements of (f)(1)(i) through (iii) below	Y	5/3/13
63.6640(f)(1)(i)	No time limit when engine is used for emergencies	Y	5/3/13
63.6640(f)(1)(ii)	Operation of engine for maintenance checks and readiness testing	Y	5/3/13
	limited to 100 hours per year		
63.6640(f)(1)(iii)	Operation of engine for non-emergency and not associated with	Y	5/3/13
	maintenance checks and readiness testing is limited to 50 hours,		
	which is counted towards the 100 hours per year maximum specified		
	in 63.6640(f)(1)(ii)		
63.6645(a)(5)	The notification requirements of 63.6645(a) do not apply to this engine.	Y	5/3/13
63.6655	Record Keeping	Y	5/3/13
	1. Record hours of operation		
	2. Install non-resettable hour meter		
63.6660	Instructions for Records	Y	5/3/13
63.6670	Implementation and enforcement of Subpart ZZZZ	Y	5/3/13
CCR, Title 17,	ATCM for Stationary Compression Ignition Engines	Ν	
Section 93115			
93115.5	Fuel Requirements	Ν	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-	Ν	
	Fueled CI Engine (>50 bhp) Operating Requirements and Emission		
	Standards		
93115.6(b)	In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp)	Ν	
	Operating Requirements and Emission Standards		
93115.10	Recordkeeping, Reporting and Monitoring Requirements	Ν	

Table IV - BSource-specific Applicable RequirementsS-2 DIESEL FIREWATER PUMP

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
93115.10(a)	Reporting	Ν	
93115.10(c)	Demonstration of Compliance with Emission Limits	Ν	
93115.10(e)(1)	Monitoring Equipment	Ν	
93115.10(g)	Reporting Requirements for Emergency Standby Engines	Ν	
93115.11	ATCM for Stationary CI Engines – Compliance Schedule for	Ν	
	Owners or Operators of Three or Fewer Engines (>50 bhp) Located		
	within a District		
93115.11(a)	Compliance by 1/1/06 for engines complying by reducing hours of	Ν	
	operation		
93115.12	Tiered Compliance Schedule	Ν	
93115.15	Severability	Ν	
BAAQMD	Conditions to the Permit to Operate for S-2 Diesel Firewater		
Condition	Pump		
# 22850 20137			
Part 1	Duration for reliability-related testing [Basis: "Stationary Diesel	Y	
	Engine ATCM" section 93115, title 17, CA Code of Regulations,		
	subsection (e) (2) (A) (3) or (e) (2) (B) (3)]		
Part 2	Mitigate emergency conditions [Basis: "Stationary Diesel Engine	Y	
	ATCM" section 93115, title 17, CA Code of Regulations, subsection		
	(e) (2) (A) (3) or (e) (2) (B) (3)]		
Part 3	Engine Run-time totalizing meter [Basis: "Stationary Diesel Engine	Y	
	ATCM" section 93115, title 17, CA Code of Regulations, subsection		
	(e) (4) (G) (1)]		
Part 4	Record keeping (Cumulative Increase)	Y	
Part 5	School boundaries. [Basis: "Stationary Diesel Engine ATCM"	Y	
	section 93115, title 17, CA Code of Regulations, subsection (e) (2)		
	(A) (1)] or (e) (2) (B) (2)]		

Table IV - CSource-specific Applicable RequirementsS-3 COOLING TOWER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter General Requirements (12/05/07)		
Regulation 6			

Table IV - CSource-specific Applicable RequirementsS-3 COOLING TOWER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Rule 1			
6-1-301	Ringelmann No. 1 Limitation	Ν	
6-1-305	Visible Particulates	Ν	
6-1-310	Particulate Weight Limitation	Ν	
6-1-401	Appearance of Emissions	Ν	
SIP	Particulate Matter and Visible Emissions (09/04/98)		
Regulation 6			
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

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

BAAQMD Condition #20136

Source S-1: Combustion Gas Turbine with Water Injection, General Electric LM6000 PC Sprint, natural gas fired, 49.9 MW net simple-cycle, 500 MMBtu/hr

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.
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 time beginning with the introduction of continuous fuel flow to the Gas Turbine until the requirements listed in Part 18 are met, but not to exceed 60 minutes.
Gas Turbine Shutdown Mode:	The lesser of the 30 minute period prior to the termination of fuel
Gas Turbine Shudown Mode.	flow to the Gas Turbine, or the period of time form non-
	compliance with any requirement listed in Part 18 until termination
	of fuel flow to the Gas Turbine.
Corrected Concentration:	The concentration of any pollutant (generally NO_x , CO or NH_3)
	corrected to a standard stack gas oxygen concentration. For an emission point (exhaust of a Gas Turbine) the standard stack gas oxygen concentration is 15% O ₂ by volume on a dry basis
Commissioning Activities:	All testing, adjustment, tuning, and calibration activities
	recommended by the equipment manufacturers and the
	construction contractor to insure safe and reliable steady state
	operation of the gas turbines and associated electrical delivery
	systems.
Commissioning Period:	The Period shall commence when all mechanical, electrical, and
	control systems are installed and individual system start-up has
	been completed, or when a gas turbine is first fired, whichever
	occurs first. The period shall terminate when the plant has completed performance testing and is available for commercial
	operation, or 180 days after commencement, whichever occurs first.
Precursor Organic	
Compounds (POCs):	Any compound of carbon, excluding methane, ethane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or

carbonates, and ammonium carbonate

Equipment Description

This Authority To Construct Is Issued And Is Valid For This Equipment Only While It Is In The Configuration Set Forth In The Following Description:

Installation of One Simple-Cycle Gas Turbine Generator Consisting Of:

Simple Cycle Gas Turbine, General Electric LM6000 PC, Maximum Heat Input 500 MMBtu/hr, Nominal Electrical Output 49.9 MW, Natural Gas-Fired.

Selective Catalytic Reduction NOx Control System

Ammonia Injection System (including the ammonia storage tank and control system)

Oxidation Catalyst System

Continuous emission monitoring system (CEMS) designed to continuously record the measured gaseous concentrations, and calculate and continuously monitor and record the NOx and CO concentrations in ppmvd corrected to 15% oxygen on a dry basis.

Permit Conditions for the Commissioning Period

Parts 1 through 10 shall only apply during the commissioning period as defined above. Unless noted, parts 11 through 33 shall only apply after the commissioning period has ended.

- 1. Deleted (Application #16645).
- 2. Deleted (Application #16645).
- 3. Deleted (Application #16645).
- 4. Deleted (Application #16645).
- 5. Deleted (Application #16645).
- 6. Deleted (Application #16645).
- 7. Deleted (Application #16645).
- 8. Deleted (Application #16645).

9. Deleted (Application #16645).

9-10. Deleted (Application (#16645).

<u>The Equipment For Which This Authority To Construct Is Issued May Be Operated Only When</u> <u>In Compliance With The Following Parts:</u>

- 10.11.Consistency with Analyses: Owner/Operator shall operate S-1 Gas Turbine only in accordance with all information submitted with the application (and supplements thereof) and the analyses under which this permit is issued unless otherwise noted below. (Basis: BAAQMD Regulation 2-1-403)
- 11.12.Conflicts Between Paragraphs: In the event that any Paragraph in this condition is determined to be in conflict with any other Paragraph contained herein, then, if principles of law do not provide to the contrary, the owner/operator must comply with the Paragraph most protective of air quality and public health and safety. (Basis: BAAQMD Regulation 1-102)
- 12.13.Reimbursement of Costs: The owner/operator shall reimburse all reasonable expenses, as set forth in the District's rules or regulations, incurred by the District for all activities that follow the issuance of this permit, including but not limited to permit condition implementation, compliance verification and emergency response, directly and necessarily related to enforcement of the permit. (Basis: BAAQMD Regulation 2-1-303)
- 13.14.Access to Records and Facilities: As to any condition that requires for its effective enforcement the inspection of records or facilities by representatives of the District, the Air Resources Board (ARB), the U.S. Environmental Protection Agency (U.S. EPA), or the California Energy Commission (CEC), the owner/operator shall make such records available or provide access to such facilities upon notice from representatives of the District, ARB, U.S. EPA, or CEC. Access shall mean access consistent with California Health and Safety Code Section 41510 and Clean Air Act Section 114A. (Basis: BAAQMD Regulation 1-440, 1-441)
- <u>14.15.</u>Deleted (Application #16645).
- 15.16.Operations: The owner/operator shall properly maintain and keep the gas turbine, emissions controls, CEMS and associated equipment in good operating condition at all times when the equipment is in operation. (Basis: BAAQMD Regulation 2-1-403)
- 16.17.Visible Emissions: The owner/operator shall not operate S-1 Gas Turbine if air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as or darker than Ringelmann 1 or equivalent 20% opacity. (Basis: BAAQMD Regulation 6-301)

17.18.Emissions Limits: The owner/operator shall only operate S-1 Gas Turbine if all of the

following emission limits are met:

18.1. Oxides of nitrogen (NOx) emissions from the gas turbine shall not exceed 2.5 ppmvd @ 15% O2 (3-hour rolling average), except during periods of startup and shutdown as defined in this permit. The NOx emission concentration shall be verified by a District-approved continuous emission monitoring system (CEMS) and during any required source test. (Basis: BACT)

18.2. Ammonia emissions from the gas turbine shall not exceed 10 ppmvd @ 15% O2 (1-hour rolling average), except during periods of startup and shutdown as defined in this permit. The owner/operator shall verify the ammonia concentration by a District approved corrected ammonia slip calculation . The owner/operator shall establish the correction factor during a District approved source test. (Basis: BAAQMD Regulation 2-5)

18.3. Carbon monoxide (CO) emissions from the gas turbine shall not exceed 6 ppmvd @ 15 % O2 (3-hour rolling average), except during periods of startup and shutdown as defined in this permit. The CO emission concentration shall be verified by a District-approved CEMS and during any required source test. (Basis: BACT)

18.4. Precursor organic compound (POC) emissions from the gas turbine shall not exceed 2 ppmvd @ 15% O2, except during periods of startup and shutdown as defined in this permit. The POC emission concentration shall be verified during any required source test. (Basis: BACT)

18.5. Particulate matter emissions less than ten microns in diameter (PM10) from the gas turbine shall not exceed 3.0 pounds per hour, except during periods of startup and shutdown as defined in this permit. The PM10 mass emission rate shall be verified during any required source test. (Basis: BACT & cumulative increase)

18.6. Oxides of sulfur emissions (SOx) from the gas turbine shall not exceed 1.39 pounds per hour, except during periods of startup and shutdown as defined in this permit. The SOx emission rate shall be verified during any required source test. (Basis: BACT & cumulative increase)

- 18.19.Turbine Startup: Startup of the gas turbine shall not exceed a time period of 60 minutes each per occurrence, or another time period based on good engineering practice and approved in advance by the District. The startup clock begins with the turbine's initial firing and continues until the unit meets the emission concentration limits. (Basis: Cumulative increase)
- 19:20.Turbine Shutdown: Shutdown of the gas turbine shall not exceed a time period of 30 minutes.

20.21.Mass Emission Limits: Owner/operator can only operate S-1 Gas Turbine if the total mass emissions from the S-1 Gas Turbine do not exceed the daily and annual mass emission limits listed in Table 1 below.

	Daily	Annual
Pollutant	(lb.)	(tons)
NOx (as NO ₂)	121	16.4
СО	163	29.1
POC	30	4.9
PM10	72	13.1
SOx (as SO ₂)	33	6.0

TABLE 1 – MASS EMISSION LIMITS (INCLUDING STARTUPS AND SHUTDOWNS)

The daily and annual mass limits <u>in Table 1</u> are on a calendar basis. Daily limits shall be based on average one-hour readings and annual limits shall be based on 12-month rolling average one-hour readings from the process monitors (e.g., fuel use meters), CEMS, and source test results; and the monitoring, recordkeeping and reporting conditions of this permit. (Basis: Cumulative increase)

- 21.22.Operational Limits: In order to comply with the emission limits of this rule, the owner/operator shall operate S-1 Gas Turbine only if the following operational limits are met:
 - (a) The heat input to the gas turbine shall not exceed:

(i)	Hourly:	500 MMBtu/hr (Basis: Cumulative increase)
(ii)	Daily:	12,000 MMBtu/day (Basis: Cumulative increase)
<u>(iii)</u>	Annual:	4,380,000 MMBtu/year (Basis: Cumulative increase)

- (b) Only PUC Quality natural gas (General Order 58-a) shall be used to fire the gas turbine. The natural gas shall not contain total sulfur in concentrations exceeding 1 gr./100 scf. (Basis: Cumulative increase)
- (c) The owner/operator of the gas turbine shall comply with the daily and annual emission limits listed in Table 1 by keeping running totals based on CEM data. (Basis: Cumulative increase)

- 22.23.Monitoring Requirements: The owner/operator shall not operate S-1 Gas Turbine unless the following monitoring systems are installed, maintained and available for service:
 - (a) The gas turbine exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods. (Basis: BAAQMD Regulation 2-1-403)
 - (b) The ammonia injection system shall be equipped with an operational ammonia flowmeter accurate to plus or minus five percent at full scale and calibrated once every twelve months, and injection pressure indicator (Basis: BACT)
 - (c) The gas turbine exhaust shall be equipped with continuously recording emissions monitor(s) for NOx, CO and O₂ or CO₂. Continuous emissions monitors shall comply with the requirements of 40 CFR Part 60, Appendices B and F, and 40 CFR Part 75, and shall be capable of monitoring concentrations and mass emissions during normal operating conditions and during startups and shutdowns. (Basis: 40CFR Part 60, Appendices B and F, and 40CFR Part 75)
 - (d) The fuel gas supply system shall be continuously recorded using District-approved fuel flow meters along with quarterly fuel compositional analyses for the fuel's higher heating value (wet basis). (Basis: Cumulative Increase)
 - (e) The fuel gas system shall have sample points and the total sulfur content of the fuel gas shall be analyzed on a quarterly basis. (Basis: BAAQMD Regulation 9-1-302)

23.24. Source Testing/RATA: Within sixty days after first fire of the gas turbines, and at a minimum on an annual basis thereafter, the owner/operator shall perform a relative accuracy test audit (RATA) on the CEMS in accordance with 40 CFR Part 60 Appendix B Performance Specifications. A source test shall be performed to verify compliance with part 18 at least once every 8,000 hours of turbine operation or once every three years, whichever comes first. Additional source testing may be required at the discretion of the District to address or ascertain compliance with the requirements of this permit. The written test results of the source tests shall be provided to the District within 60 days after testing. A complete test protocol shall be submitted to the District no later than 30 days prior to testing, and notification to the District at least ten days prior to the actual date of testing shall be provided so that a District observer may be present. The source test protocol shall comply with the following: measurements of NOx, CO, POC, and stack gas oxygen content shall be conducted in accordance with ARB Test Method 100; measurements of PM10 shall be conducted in accordance with ARB Test Method 5; and measurements of ammonia shall be conducted in accordance with Bay Area Air Quality Management District test method ST-1B. Alternative test methods, and source testing scope, may also be used to address the source testing requirements of the permit if approved in advance by the District. The initial and annual source tests shall include those parameters specified in the approved test protocol, and shall at a minimum include the following:

a. NOx (as NO2) – ppmvd at 15% O2 and lb/MMBtu;

- b. Ammonia ppmvd at 15% O2 (Exhaust);
- c. CO ppmvd at 15% O2 and lb/MMBtu (Exhaust);
- d. POC ppmvd at 15% O2 and lb/MMBtu (Exhaust);
- e. PM10 lb/hr (Exhaust);
- f. SOx lb/hr (Exhaust);
- g. Natural gas consumption, fuel High Heating Value (HHV), and total fuel sulfur content;
- h. Turbine load in megawatts;
- i. Stack gas flow rate (SDCFM) calculated according to procedures in U.S. EPA Method 19.
- j. Exhaust gas temperature (°F)
- k. Ammonia injection rate (lb/hr or moles/hr)
- (Basis: Cumulative increase)
- 24:25. The owner/operator shall not operate S-1 Gas Turbine until after a written quality assurance program is established in accordance with 40 CFR Part 75, Appendix B and 40 CFR Part 60 Appendix F. (Basis: 40 CFR Part 75, Appendix B and 40 CFR Part 60 Appendix F)

25.26. Deleted (Application #16645).

- 26.27. The owner/operator shall notify the District of any breakdown condition consistent with the District's breakdown regulations. (Basis: BAAQMD Regulation 1-208)
- 27.28. The District shall be notified by the owner/operator in writing in a timeframe consistent with the District's breakdown regulations following the correction of any breakdown condition. The breakdown condition shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the actions taken to restore normal operations. (Basis: BAAQMD Regulation 1-208)
- 28.29.Record keeping: The owner/operator of S-1 Gas Turbine shall not operate S-1 Gas turbine unless the following records are maintained:
 - (a) hourly, daily, quarterly and annual quantity of fuel used and corresponding heat input rates (Basis: Cumulative Increase);
 - (b) the date and time of each occurrence, duration, and type of any startup, shutdown, or malfunction along with the resulting mass emissions during such time period (Basis: BACT, Cumulative Increase);
 - (c) emission measurements from all source testing, RATAs and fuel analyses (Basis: BACT, Cumulative Increase, 40CFR60, 40CFR75);
 - (d) daily, quarterly and annual hours of operation (Basis: Cumulative Increase);
 - (e) hourly records of NOx and CO, emission concentrations and hourly ammonia injection rates and ammonia/NOx ratio (Basis: BACT)
 - (f) for the continuous emissions monitoring system; performance testing, evaluations, calibrations, checks, maintenance, adjustments, and any period of non-operation

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of any continuous emissions monitor

(Basis: BAAQMD Regulation 1-522)

- 30. All records required to be maintained by this permit shall be retained by the owner/operator for a period of five years and shall be made readily available for District inspection upon request. (Basis: BAAQMD Regulation 2-6-501)
- 31. <u>Reporting</u>: The owner/operator shall submit to the District a written report for each calendar quarter, within 30 days of the end of the quarter, which shall include:
 - (a) Daily and quarterly fuel use and corresponding heat input rates (Basis: Cumulative Increase);
 - (b) Daily and quarterly mass emission rates for all criteria pollutants during normal operations and during other periods (startup/shutdown, breakdowns) (Basis: BACT, Cumulative Increase);
 - (c) Time intervals, date, and magnitude of excess emissions (Basis: BACT, Cumulative Increase);
 - (d) Nature and cause of the excess emission, and corrective actions taken (Basis: BACT, Cumulative Increase);
 - (e) Time and date of each period during which the CEM was inoperative, except for zero and span checks, and the nature of system repairs and adjustments (Basis: BAAQMD Regulation 1-522);
 - (f) A negative declaration when no excess emissions occurred (Basis: BACT, Cumulative Increase);
 - (g) Results of quarterly fuel analyses for HHV and total sulfur content. (Basis: BACT, 40CFR75)
- 32. <u>District Operating Permit</u>: The owner/operator shall apply for and obtain all required operating permits from the District according to the requirements of the District's rules and regulations. (Basis: BAAQMD Regulations 2, Rule 2 & BAAQMD Regulation 2, Rule 6)
- 33. Deleted (Application #16645).

BAAQMD Condition # 22850 Source S-2: Diesel Firewater Pump, Clarke Model JU4H-UF40, 94 HP

1. The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing [Basis: Title 17, California Code of Regulations, Section 93115, ATCM for Stationary CI Engines]

2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with

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a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited. [Basis: Title 17, California Code of Regulations, Section 93115, ATCM for Stationary CI Engines]

3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained. [Basis: Title 17, California Code of Regulations, Section 93115, ATCM for Stationary CI Engines]

4. Records: The owner/operator shall maintain the following monthly records in a Districtapproved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.

a. Hours of operation for reliability-related activities (maintenance and testing).

- b. Hours of operation for emission testing to show compliance with emission limits.
- c. Hours of operation (emergency).
- d. For each emergency, the nature of the emergency condition.
- e. Fuel usage for each engine(s).

[Basis: Title 17, California Code of Regulations, Section 93115, ATCM for Stationary CI Engines]

5. At School and Near-School Operation: If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply: The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

a. Whenever there is a school sponsored activity (if the engine is located on school grounds) b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session. "School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, athletic field, or other areas of school property but does not include unimproved school property. [Basis: Title 17, California Code of Regulations, Section 93115, ATCM for Stationary CI Engines]

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 column 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), hourly (H), 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.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
NOx	BAAQMD	Ν		9 ppmv @ 15% O2, dry	BAAQMD	С	CEM
	9-9-301.1.3				9-9-501 and		
					BAAQMD		
					condition		
					#20136, part		
					23c		
NOx	BAAQMD	N		9 ppmv @ 15% O2, dry	BAAQMD	P/A <u>8,000</u>	Source test
	9-9-301.1.3				condition	hrs. or every	every 8,000
					#20136,	<u>3 yrs.,</u>	hrs. or every
					part 24a	whichever	3 yrs.,
						comes first	whichever
							comes first
NOx	BAAQMD	Ν		0.43 lbs/MWhr or 9 ppmv	BAAQMD	С	CEM
	9-9-301.2			@ 15% O2, dry	9-9-501 and		
					BAAQMD		
					condition		
					#19684, part		
					23c		

			T				
			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
NOx	SIP	Y		9 ppmv @ 15% O2, dry	BAAQMD	С	CEM
	9-9-301.3				9-9-501 and		
					BAAQMD		
					condition		
					#19684, part		
					23c		
	SIP	Y		9 ppmv @ 15% O2, dry	BAAQMD	P/A <u>8,000</u>	Source test
	<u>9-9-301.3</u>				condition	hrs. or every	every 8,000
					#19684,	<u>3 yrs.,</u>	hrs. or every
					part 24a	whichever	3 yrs.,
						comes first	whichever
							comes first
NOx	NSPS,	Y		75 ppmv @ 15% O2, dry	NSPS 40	С	CEM
	Subpart GG				CFR 60.334		
	40 CFR				(<u>b</u> e)		
	60.33 <mark>24</mark>						
	(a)(1) <u>and</u>						
	<u>(b)</u>						
NOx	None	Y		None	40 CFR 75.10	С	CEM
NOx	BAAQMD	Y		2.5 ppmv @ 15% O2, dry,	BAAQMD	С	CEM
	condition			3-hr rolling average except	condition		
	#20136,			during turbine startup or	#20136, part		
	part 18.1			shutdown	18.1		
NOx	BAAQMD	Y		2.5 ppmv @ 15% O2, dry,	BAAQMD	P/A <u>8,000</u>	Source test
	condition			3-hr average except during	condition	hrs. or every	every 8,000
	#20136,			turbine startup or shutdown	#20136,	<u>3 yrs.,</u>	hrs. or every
	part 18.1				part 24a	whichever	3 yrs.,
						comes first	whichever
							comes first
NOx	BAAQMD	Y		121 lb/calendar day (as	BAAQMD	С	CEM
	condition			NO2)	condition		
	#20136,				#20136,		
	part 21				part 23c		

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
NOx	BAAQMD condition #20136, part 21	Y		16.4 tons per calendar year (as NO2)	BAAQMD condition #20136, part 23c	С	CEM
СО	BAAQMD condition #20136, part 18.3	Y		6 ppmv @ 15% O2, dry, 3-hr average except during turbine startup or shutdown	BAAQMD condition #20136, parts 18.3 and 23c	С	СЕМ
СО	BAAQMD condition #20136, part 18.3	Y		6 ppmv @ 15% O2, dry, 3-hr average except during turbine startup or shutdown	BAAQMD condition #20136, part 24c	P/A <u>8,000</u> hrs. or every <u>3 yrs.,</u> whichever comes first	Source test every 8,000 hrs. or every 3 yrs., whichever comes first
СО	BAAQMD condition #20136, part 21	Y		163 lb/calendar day	BAAQMD condition #20136, part 23c	С	СЕМ
СО	BAAQMD condition #20136, part 21	Y		29.1 tons per calendar year	BAAQMD condition #20136, part 23c	С	CEM
CO2		Y		None	40 CFR 75.10	С	CEM (CO2) or CEM (O2) or fuel flow monitor
SO ₂	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		Ν	

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
SO ₂	BAAQMD	Y		300 ppm (dry)	BAAQMD	N	
	9-1-302				condition		
					#20136,		
					part 23e		
<u>SO</u> 2	<u>SIP</u>	<u>Y</u>		GLC ¹ of 0.5 ppm for 3 min		<u>N</u>	
	<u>9-1-301</u>			<u>or 0.25 ppm for 60 min or</u>			
				0.05 ppm for 24 hours			
<u>SO</u> 2	<u>SIP</u>	<u>Y</u>		<u>300 ppm (dry)</u>	BAAQMD	<u>N</u>	
	<u>9-1-302</u>				<u>condition</u>		
					<u>#20136,</u>		
					part 23e		
SO_2	NSPS	Y		0.015% (vol.)	NSPS 40	<mark>₩</mark> N	None
	40 CFR			@15% O2 (dry)	CFR		
	Subpart GG				60.334(h)(3)		
	60.333(a)						
SO_2	None	Y		None	40 CFR		Fuel
					75.11(d)(2),		measure-
					40 CFR 75,		ments,
					Appendix D,		calculations
					part 2.3		
SO_2	BAAQMD	Y		1.39 lb/ hr excluding startup	BAAQMD	P/Q	Total sulfur
	condition			and shutdown of turbines	condition		analysis
	#20136,				#20136,		
	part 18.6				part 23e		
SO_2	BAAQMD	Y		1.39 lb/ hr excluding startup	BAAQMD	P/ <u>A8,000</u>	Source test
	condition			and shutdown of turbines	condition	hrs. or every	every 8,000
	#20136,				#20136,	<u>3 yrs.,</u>	hrs. or every
	part 18.6				part 24f	whichever	3 yrs.,
						comes first	whichever comes first
SO ₂		Y		22 lb/colordor dov	BAAQMD	D/O	Total sulfur
502	BAAQMD condition	r		33 lb/calendar day	condition	P/Q	analysis
	#20136,				#20136,		anarysis
	#20136, part 21				#20136, part 23e		
1	Part ∠1				part 25e		

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
SO ₂	BAAQMD	Y		6.0 tons/calendar year	BAAQMD	P/Q	Total sulfur
202	condition	-		oro coms, caronoar year	condition	- / 2	analysis
	#20136,				#20136,		unuijons
	part 21				part 23e		
Opacity	BAAQMD	N		> Ringelmann No. 1 for no	P	N	
opuony	6-1-301			more than 3 minutes in any			
	0 1 501			hour			
Opacity	SIP 6-301	Y		> Ringelmann No. 1 for no		N	
opueny	SH 0 001	-		more than 3 minutes in any			
				hour			
Opacity	BAAQMD	Y		> Ringelmann No. 1 for no		N	
- F	condition	_		more than 3 minutes in any			
	#20136,			hour or equivalent 20%			
	part 17			opacity			
Filterable	BAAQMD	Y		0.15 grain/dscf		N	
Particulate	6-1-310			C			
FP	SIP	Y		0.15 grain/dscf		Ν	
	6-310						
PM10	BAAQMD	Y		3.0 lb/ hr for S-1	BAAQMD	P/ <u>A8,000</u>	Source test
	condition				condition	hrs. or every	every 8,000
	#20136,				#20136,	<u>3 yrs.,</u>	hrs. or every
	part 18.5				part 24e	whichever	3 yrs.,
						comes first	whichever
							comes first
PM10	BAAQMD	Y		72 lb/calendar day	BAAQMD	P/A <u>8,000</u>	Source Test
	condition				condition	hrs. or every	every 8,000
	#20136,				#20136,	<u>3 yrs.,</u>	hrs. or every
	part 21				part 24e	whichever	3 yrs.,
						comes first	whichever
							comes first

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 #20136, part 21	Y		13.1 tons/calendar year	BAAQMD condition #20136, part 24e	P/A <u>8,000</u> <u>hrs. or every</u> <u>3 yrs.,</u> <u>whichever</u> <u>comes first</u>	Source Test every 8,000 hrs. or every 3 yrs., whichever comes first
POC	BAAQMD condition #20136, part 18.4	Y		2 ppmv @ 15% O2, dry, except during turbine startup or shutdown	BAAQMD condition #20136, part 24d	P/A <u>8,000</u> hrs. or every <u>3 yrs.,</u> whichever comes first	Source test every 8,000 hrs. or every 3 yrs., whichever comes first
POC	BAAQMD condition #20136, part 21	Y		30.0 lb/calendar day	BAAQMD condition #20136, part 24d	P/ <u>A8,000</u> hrs. or every <u>3 yrs.,</u> whichever comes first	Source test every 8,000 hrs. or every 3 yrs., whichever comes first
POC	BAAQMD condition #20136, part 21	Y		4.9 ton/calendar year	BAAQMD condition #20136, part 24d	P/A <u>8,000</u> hrs. or every <u>3 yrs.,</u> whichever comes first	Source test every 8,000 hrs. or every 3 yrs., whichever comes first

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
NH ₃	BAAQMD	N		10 ppmv @ 15% O2, dry,	BAAQMD	<u>€P</u>	Calculation
	condition			except during turbine	condition		based on
	#20136,			startup or shutdown	#20136,		source test
	Part 18.2				parts 18.2 and		and NH3 to
					23b		NOx ratio at
							inlet to
							SCRDistrict
							approved
							<u>ammonia</u>
							<u>slip</u>
							calculation
							and
							correction
							factor
							determined
							by source
							test
NH ₃	BAAQMD	Ν		10 ppmv @ 15% O2, dry,	BAAQMD	P/A <u>8,000</u>	Source test
	condition			except during turbine	condition	hrs. or every	every 8,000
	#20136,			startup or shutdown	#20136,	<u>3 yrs.,</u>	hrs. or every
	Part 18.2				part 24b	whichever	3 yrs.,
						comes first	whichever
							comes first
Heat input	BAAQMD	Y		500 MM BTU/ hr (HHV),	BAAQMD	С	Fuel meter
limit	condition			3-hr average	condition		
	#20136,				#20136,		
	part 22				part 23d		
Heat input	BAAQMD	Y		500 MM BTU/ hr (HHV),	BAAQMD	P/M	Fuel
limit	condition			3-hr average	condition		composition
	#20136,				#20136,		analysis
	part 22				part 23d		

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Heat input	BAAQMD	Y		500 MM BTU/ hr (HHV),	BAAQMD	P/ <u>A8,000</u>	Source test
limit	condition			3-hr average	condition	hrs. or every	every 8,000
	#20136,				#20136,	<u>3 yrs.,</u>	hrs. or every
	part 22				part 24g	whichever	3 yrs.,
						comes first	whichever
							comes first
Heat input	BAAQMD	Y		12,000 MM BTU/day	BAAQMD	С	fuel meter,
limit	condition			(HHV)	condition		calculations
	#20136,				#20136,		
	part 22(a)(i)				part 23d		
Heat input	BAAQMD	Y		12,000 MM BTU/day	BAAQMD	P/Q	Fuel
limit	condition			(HHV)	condition		composition
	#20136,				#20136,		analysis
	part				part 31g		
	22 <u>(a)(ii)</u>						
Heat input	BAAQMD	Y		4,380,000 MM BTU/yr	BAAQMD	С	fuel meter,
limit	condition				condition		calculations
	#20136,				#20136,		
	part				part 23d		
	22 <u>(a)(iii)</u>						
Heat input	BAAQMD	Y		4,380,000 MM BTU/yr	BAAQMD	P/Q	Fuel
limit	condition				condition		composition
	#20136,				#20136,		analysis
	part 22				part 31g		
MW	N/A			None	BAAQMD	P/ <u>A8,000</u>	Source test
					condition	hrs. or every	every 8,000
					#20136,	<u>3 yrs.,</u>	hrs. or every
					part 24h	whichever	3 yrs.,
						comes first	whichever
							comes first

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Exhaust	N/A			None	BAAQMD	P/A <u>8,000</u>	Source test
Gas					condition	hrs. or every	every 8,000
Temp.					#20136,	<u>3 yrs.,</u>	hrs. or every
					part 24j	whichever	3 yrs.,
						comes first	whichever
							comes first
Stack gas	N/A			None	BAAQMD	P/A <u>8,000</u>	Source test
flow					condition	hrs. or every	every 8,000
					#20136,	<u>3 yrs.,</u>	hrs. or every
					part 24i	whichever	3 yrs.,
						comes first	whichever
							comes first
NH3	N/A			None	BAAQMD	P/ <u>A8,000</u>	Source test
injection					condition	hrs. or every	District
rate					#20136,	<u>3 yrs.,</u>	approved
					part 24k	whichever	correct
						comes first	ammonia
							slip
							calculation
							and
							correction
							factor
							determined
							by source
							test with
							source. test
							every 8,000
							hrs or every
							3 yrs,
							whichever
							comes first

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Start-up	BAAQMD			60 minutes per start-up	BAAQMD	P/E	Records
Period	condition				condition		
	#20136,				# 20057		
	part 19				<u>20136</u> ,		
					part 31(b)		
Shut-	BAAQMD			30 minutes per shutdown	BAAQMD	P/E	Records
down	condition				condition		
Period	#20136,				# 20057		
	part 20				<u>20136</u> ,		
					part 31(b)		
Fuel	40 CFR	Y		0.8 percent by weight (8000	40 CRFR	<u>₽N</u>	Fuel Sulfur
Sulfur	60.333(b)			ppmw) sulfur	60.334(h)(1)<u>4</u>		Content
Content					<u>40 CFR</u>		Testing
					60.334(h)(3)		

Table VII - A Applicable Limits and Compliance Monitoring Requirements S-1 COMBUSTION GAS TURBINE

Table VII - BApplicable Limits and Compliance Monitoring RequirementsS-2 DIESEL FIREWATER PUMP

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
SO2	BAAQMD	N		GLC ¹ of 0.5 ppm for 3 min		P/EN	Fuel
	9-1-301			or 0.25 ppm for 60 min or			certification by
				0.05 ppm for 24 hours			vendor
	BAAQMD	Y		Sulfur content of fuel		P/EN	Fuel
	9-1-304			<0.5% by weight			certification by
							vendor
<u>SO2</u>	<u>SIP</u>	<u>Y</u>		GLC ¹ of 0.5 ppm for 3 min		<u>N</u>	
	<u>9-1-301</u>			or 0.25 ppm for 60 min or			
				0.05 ppm for 24 hours			

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
			Date		Citation		Туре
\underline{SO}_2	<u>SIP</u>	<u>Y</u>		Sulfur content of fuel		<u>N</u>	
	<u>9-1-304</u>			<0.5% by weight			
Opacity	SIP	Y		< Ringelmann No 2 for		Ν	
	Regulation			more than 3 min/hr			
	6-302						
Opacity	BAAQMD	N		< Ringelmann No. 2 for		N	
	Regulation			more than 3 min/hr			
	6-1-302						
FP	SIP 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD	N		0.15 grain/dscf		Ν	
	6-1-310						
Hours of	BAAQMD	Y		Emergency use for an	BAAQMD	С	Hour meter,
operation	9-8-330.1			unlimited number of hours	9-8-530	P/E	recordkeeping
-	BAAQMD				BAAQMD		
	Condition				Condition		
	#22850				#22850 Part 3		
	Part 1						
Hours of	BAAQMD	Y		Reliability-related activities	BAAQMD	С	Hour meter,
operation	9-8-330.2			not to exceed 50 hours in	9-8-530	P/E	recordkeeping
_	BAAQMD			any consecutive 12-month	BAAQMD		
	Condition			period	Condition		
	#22850			<u>^</u>	#22850 Part 3		
	Part 1						

Table VII - BApplicable Limits and Compliance Monitoring RequirementsS-2 DIESEL FIREWATER PUMP

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 6-1-301	N		< Ringelmann NO 1 for more than 3 min/hr	N	N	
Particulate Weight	BAAQMD Regulation 6-1-310	N		0.15 grains per dscf	N	N	
Opacity	SIP Regulation 6-301	Y		< Ringelmann 1 for more than 3 min/hr	N	N	
Particulate Weight	SIP Regulation 6-310	Y		0.15 grains per dscf	Y	Ν	
Particulate Weight	BAAQMD Regulation 6-1-311	Y		40 lb/hr	N	Ν	
Particulate Weight	SIP Regulation 6-311	Y		40 lb/hr	N	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 Limits & Compliance Monitoring Requirements, of this permit.

Applicable				
Requirement	t Description of Requirement Acceptable Test Methods			
BAAQMD	Fuel Burning (Liquid and Solid	Manual of Procedures, Volume III, Method 10, Determination		
9-1-304	Fuels)	Sulfur in Fuel Oils.		
BAAQMD	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions		
6-301				
BAAQMD	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling		
6-310				
BAAQMD	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling		
6-311				
BAAQMD	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide,		
9-1-302		Continuous Sampling, or		
		ST-19B, Total Sulfur Oxides Integrated Sample		
BAAQMD	Emission Limits- Turbines Rated	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen,		
9-9-301.2	≥ 250 -500 MMBtu/hr	Continuous Sampling and		
		ST-14, Oxygen, Continuous Sampling		
BAAQMD	Emission Limits- Turbines Rated	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen,		
9-9-301.3	$\geq 10 \text{ MW w/SCR}$	Continuous Sampling and		
		ST-14, Oxygen, Continuous Sampling		
NSPS Subpart GG	Standards of Performance for S	tationary Gas Turbines (2/24/06)		
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		
NSPS 40 CFR	40 CFR 60, Appendix A	EPA Method 7, Determination of Nitrogen Oxide Emissions from		
60.8		Stationary Sources		
		EPA Method 20, Determination of Nitrogen Oxides, Sulfur		
		Dioxide, and Diluent Emissions from Stationary Gas Turbines		

Table VIII Test Methods

VIII. Test Methods

Table VIIITest Methods

Applicable				
Requirement	t Description of Requirement Acceptable Test Methods			
BAAQMI	O Condition # 20136 for S-1 Comb	oustion Gas Turbine		
Part 18.1	NOx Limit	ARB Method 100, Procedures for Continuous Gaseous Emission Stack Sampling		
Part 18.2	NH3 Limit Manual of Procedures, Volume IV, ST-1B, Ammonia, Integrated Sampling			
Part 18.3	CO Limit ARB Method 100, Procedures for Continuous Gaseous Emission Stack Sampling			
Part 18.4	POC Limit	ARB Method 100, Procedures for Continuous Gaseous Emission Stack SamplingMethod TO-12		
Part 18.5	PM10 Limit	ARB Method 5, Determination of Particulate Matter Emissions from Stationary Sources		
Part 18.6	SOx Limit	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling or ST-19B, Total Sulfur Oxides, Integrated Sample		

IX. TITLE IV ACID RAIN PERMIT

Effective February 27, 2012 through February 26, 2017

ISSUED TO:

Creed Energy Center, LLC 2425 Cordelia Road Fairfield, CA 94534

PLANT SITE LOCATION: 6150 Creed Road Suisun City, CA 94585

ISSUED BY:

Signed by Jeff McKay for Jack P. BroadbentFebruary 27, 2012Jack P. Broadbent, Executive Officer/Air Pollution Control OfficerDate

Type of Facility:Simple-Cycle Gas Turbine Peaking FacilityPrimary SIC:4911Product:Electricity

DESIGNATED REPRESENTATIVE

Name:	Fernando ParraAndrew Gundershaug
Title:	Plant Manager
Address:	2425 Cordelia Road, Fairfield, CA 94534
Phone:	(707) 399-4393

FACILITY CONTACT PERSON:

Name:	Bob IbrahimBarbara McBride
Title:	Director, Environmental SerivcesPlant Engineer
Phone:	(707) 399-4395<u>(925) 570-0849</u>

IX. Title V Acid Rain Permit

ACID RAIN PERMIT CONTENTS

- 1) Statement of Basis
- 2) SO₂ 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 the 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 Regulation 2, Rule 7.

2) SO2 ALLOWANCE ALLOCATIONS

<u>None of the sources at the facility (S-1 and S-2) is entitled to any SO₂ allowances under Table 2 of 40 CFR Part 73 for the term of this permit.</u>

	Year	2012	2013	2014	2015	2016
	SO2-allowances	None	None	None	None	None
	under Table 2 of 40					
	CFR Part 73					
S-1,	NOx Limit	This unit	is not subje	ct to the NO 2	k requiremen	ts from
Combustion		40 CFR F	Part 76 as th	is unit is not	capable of fi	ring on
Turbine		coal.				

3) COMMENTS, NOTES AND JUSTIFICATIONS

Pursuant to 40 CFR Part 72.6 (a)(3)(i), S-1 is considered a new utility unit and is subject to the acid rain permit requirements of 72.9(a).

S-1 Gas Turbine is not listed in table-2 of 40 CFR Part 73, therefore, the operator did not receive initial SO2 allowances under the Acid Rain Program.

IX. Title V Acid Rain Permit

S-1 Gas Turbine does not qualify for a new unit exemption pursuant to 40 CFR 72.7 (b) (1) since it serves a generator with a nameplate capacity greater than 25 MW

4) PERMIT APPLICATION REQUIREMENTS

The owners and operators of the facility must comply with the standard requirements and special provisions set forth in the facility's Title IV permit application, which is set forth in Section XIII. The main provisions of the regulations for natural gas fired acid rain sources, such as the ones at this facility, are the requirement to obtain one SO_2 allowance for each ton of SO_2 that is emitted, stringent monitoring requirements for NO_x , CO_2 , and SO_2 , and the stringent recordkeeping and reporting requirements. Additional acid-rain-related permit requirements are stated in Standard Condition L in Section I of this permit.

Attached as XIII. Title IV Acid Rain Application (Page 73)

X. PERMIT SHIELD

A. Non-applicable Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] do not apply to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited, as long as the reasons listed below remain valid for the source or group of sources covered by this shield.

Table X A - 1

Permit Shield for Non-applicable Requirements S-1 COMBUSTION GAS TURBINE

Citation	Title or Description		
	(Reason not applicable)		
BAAQMD	Air Pollution Episode Plan (3/20/91)		
Regulation 4			
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)		

BAAQMD Regulation 4 requires facilities emitting more than 100 tons/yr of any pollutant to submit an air pollution episode plan. Because the facility's potential to emit is limited by permit conditions to less than 100 tons/yr for all pollutants, Regulation 4 is not applicable to the facility.

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.

There are no permit shields of this type for any sources at this facility.

XI. REVISION HISTORY

This section contains the details of issuance and revision for each permit.

The initial Title V permit for this facility was issued on March 6, 2003. Initial Title V Permit (Application 5049): March 6, 2003

Significant Revision (Application 11000):

January 29, 2007

Change permit condition to allow for source test every 8,000 hrs. of turbine operation or every 3 years, whichever comes first.

Change permit condition to allow for ammonia slip calculation and correction factor determined by source test.

Renewal of Title V Permit (Application 16645): February 27, 2012

Renewal of Title V Permit (Application 28229)

XII. GLOSSARY

ACT

Federal Clean Air Act

APCO Air Pollution Control Officer

API American Petroleum Institute

ARB Air Resources Board

BAAQMD Bay Area Air Quality Management District

BACT Best Available Control Technology

BARCT Best Available Retrofit Control Technology

Basis The underlying authority that allows the District to impose requirements.

C5 An Organic chemical compound with five carbon atoms

C6 An Organic chemical compound with six carbon atoms

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CEC California Energy Commission

CEQA

California Environmental Quality Act **CEM**

A "continuous emission monitor" is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NOx concentration) in an exhaust stream.

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.

СО

Carbon Monoxide

CO2

Carbon Dioxide

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

dscf

Dry Standard Cubic Feet

dscm

Dry Standard Cubic Meter

E 6, E 9, E 12

EGT

Exhaust Gas Temperature

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

Federally Enforceable, FE

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), and also 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.

FR

Federal Register

GDF Gasoline Dispensing Facility

GLM

Ground Level Monitor

grains

1/7000 of a pound

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 40 CFR Part 63.

H2S

Hydrogen Sulfide

HHV

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60F.

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 Act and implemented by District Regulation 2, Rule 6.

MOP

The District's Manual of Procedures

MSDS

Material Safety Data Sheet

MW

Megawatts

NA

Not Applicable

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

NMOC

Non-methane Organic Compounds (Same as NMHC)

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 Act, and 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 air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

02

The chemical name for naturally-occurring oxygen gas.

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. 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

Total 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 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.

SCR

A "selective catalytic reduction" unit is an abatement device that reduces NOx concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NOx compounds to nitrogen gas.

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

SO2 Bubble

An SO2 bubble is an overall cap on the SO2 emissions from a defined group of sources, or from an entire facility. SO2 bubbles are sometimes used at refineries because combustion sources are typically fired entirely or in part by "refinery fuel gas" (RFG), a waste gas product from refining operations. Thus, total SO2 emissions may be conveniently quantified by monitoring the total amount of RFG that is consumed, and the concentration of H2S and other sulfur compounds in the RFG.

SO3

Sulfur trioxide

THC

Total Hydrocarbons (NMHC + Methane)

therm

100,000 British Thermal Unit

Title V

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

TOC

Total Organic Compounds (NMOC + Methane, Same as THC)

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VOC

Volatile Organic Compounds

Units of Measure:

its (of Measure:		
	bbl	=	barrel of liquid (42 gallons)
	bhp	=	brake-horsepower
	btu	=	British Thermal Unit
	°C	=	degrees Celsius
	°F	=	degrees Fahrenheit
	f ³	=	cubic feet
	g	=	grams
	gal	=	gallon
	gpm	=	gallons per minute
	hp	=	horsepower
	hr	=	hour
	lb	=	pound
	in	=	inches
	max	=	maximum
	m ²	=	square meter
	min	=	minute
	Μ	=	thousand
	Mg	=	mega-gram, one thousand grams
	μg	=	micro-gram, one millionth of a gram
	MM	=	million
	mm	=	millimeter
	MMbtu	=	million btu
	mm Hg	=	millimeters of Mercury (pressure)
	MW	=	megawatts
	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

Symbols:

<	=	less than
>	=	greater than
<u> </u>	=	less than or equal to
\geq	=	greater than or equal to

XIII. TITLE IV (ACID RAIN) APPLICATION



Identify the facility name, State, and plant (ORIS) United States Environmental Protection Agency Acid Rain Program

OMB No. 2060-0258 Approval expires 11/30/2012

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: 🗆 New 🗆 Revised 🕺 for ARP permit renewal

STEP 1

Creed Energy Center, LLC	CA	55625	
Facility (Source) Name	State	Plant Code	

STEP 2

code.

Enter the unit ID# for every affected unit at the affected source in column "a."

а	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
UNIT1	Yes
	Yes
20	Yes
	Yes

Creed Energy Center, LLC Facility (Source) Name (from STEP 1)

STEP 3

Read the standard

requirements.

(1) The designated representative of each affected source and each affected unit at the source shall:

 (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:

(i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and

(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

 (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
 (3) An affected unit shall be subject to the requirements under paragraph (1)

of the sulfur dioxide requirements as follows: (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

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Creed Energy Center, LLC	- Pao
Creed Energy Center, EDC	
Facility (Source) Name (from STEP 1)	

Page 3

Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.

 (2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
 (i) Pay without demand the penalty required, and pay upon demand the

(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and

(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:

(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission

<u></u>	
Creed Energy Center, LLC	Page
Facility (Source) Name (from STEP 1)	

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of a new certificate of representation changing the designated representative:

STEP 3, Cont'd. Recordkeeping and Reporting Requirements, Cont'd.

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.

(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect. (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.

(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.

(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

 Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with



any other provision of the Act, including the provisions of title I of the Act relating

STEP 3, Cont'd.

Effect on Other Authorities, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4 Read the certification statement, sign, and date.

Certification

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

Name	Andrew Gundershaug			
Signatu	e Andy Sanleshag	Date	8/29/4	