



July 12, 2010

Attn: Mr. Gerardo Rios, Chief (AIR-3)
Air Division, Permits Office
United States Environmental Protection Agency, Region IX
75 Hawthorne Street
San Francisco, CA 94105

Subject: Notification of Issuance of Title V Permit Renewal for Roseville Electric

Dear Mr. Rios:

Placer County Air Pollution Control District is issuing a Title V Permit Renewal for Roseville Electric, with an Expiration Date of July 12, 2015. A copy of the final permit is attached. Please let me know, at (530) 745-2322, if there is any information that you need, or if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Todd K. Nishikawa", with a large, sweeping flourish above the name.

Todd K. Nishikawa
Manager, Compliance & Enforcement

Attachments Title V Operating Permit, Roseville Electric

cc: Roger Kohn, by e-mail



Placer County
AIR POLLUTION CONTROL DISTRICT

PLACER COUNTY AIR POLLUTION CONTROL DISTRICT

Roseville Electric – Roseville Energy Park

Title V Operating Permit

Permit Number: REP-001

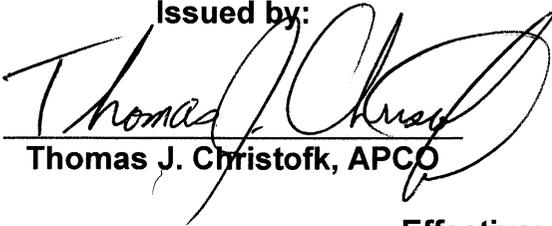
Issued To:

Roseville Electric
2090 Hilltop Circle
Roseville, CA 95747

Plant Site Location:

Roseville Energy Park
5120 Phillip Road
Roseville, CA 95747

Issued by:


Thomas J. Christofk, APCO

7-12-2010

Date

Effective: July 12, 2010

Expiration: July 12, 2015

Nature of Business: Electric Utility

SIC Code: 4911

Responsible Official:

Michelle Bertolino
Electric Utility Director
Phone: (916) 774-5602
Roseville Electric

Facility Contact:

Russ Nichols
Plant Manager
Phone: (916) 774-5631
Roseville Electric

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1.0 Facility Description and Equipment Lists

1.1 Description

Roseville Electric (the Electric Department of the City of Roseville) owns and operates a natural gas combined cycle power plant at the Roseville Energy Park, located in Roseville, California, in Township 11 North, Range 5 East, Section 23. The power plant commenced operations on October 15, 2007. The plant is rated at 120 MW, with a peaking capacity of 160 MW. The plant includes two (2) natural gas fired combustion turbines, natural gas fired duct burners, and steam turbine. Nitrogen oxide and carbon monoxide emissions are controlled with the use of dry-low-NOx combustors, oxidation catalyst, and selective catalytic reduction.

1.2 Equipment Listing

1.2.1 Sources

Combustion

Equipment	Description
Combustion Turbine, Unit #1	Siemens SGT-800 natural gas fired turbine generator, rated at 457.3 MMBtu/hr
Combustion Turbine, Unit #2	Siemens SGT-800 natural gas fired turbine generator, rated at 457.3 MMBtu/hr
Duct Burner, Unit #1	Natural gas fired duct burner, 8 element, rated at 225 MMBtu/hr
Duct Burner, Unit #2	Natural gas fired duct burner, 8 element, rated at 225 MMBtu/hr
Emergency Generator	Diesel fired engine, rated at 1133 bhp
Fire Pump	Diesel fired engine, rated at 300 bhp

General

Equipment	Description
Cooling Tower	Evaporative cooler, counter flow design

1.2.2 Emissions Control Equipment

Equipment	Description
SCR, Unit #1	Selective catalytic reduction, reduction catalyst bed, ammonia injection system
SCR, Unit #2	Selective catalytic reduction, reduction catalyst bed, ammonia injection system
Oxidation Catalyst, Unit #1	Oxidation catalyst bed
Oxidation Catalyst, Unit #2	Oxidation catalyst bed

1.3 Insignificant Activities

The following types of activities are exempted from the Title V permit requirements based on U.S. EPA's guidelines of Trivial Activities, and District Rule 507, Federal Operating Permit Program, Appendix I, List of Title V Insignificant Activities:

1. Plant maintenance and upkeep activities, such as painting.
2. Combustion emissions from propulsion of mobile sources, including forklifts.
3. The repair and maintenance shop activities not related to primary business activities.

4. Portable generators, portable steam cleaners, portable pumps, and water heaters/steam cleaners that are exempt from District and State portable equipment regulations.
5. Unheated cleaning equipment and office janitorial activities and equipment and consumer use of janitorial products and consumer use of office equipment and products.
6. Non-electric space heating.
7. Fuel storage tanks (200 gallon capacity) for the emergency generator and fire pump.
8. Oil-containing reservoirs for gas and steam turbines, oil-containing transformers, and used oil tank.
9. Sulfuric acid and ammonia tanks.
10. Natural gas compression and storage equipment.
11. Laboratory fume hoods and vents used for quality control.
12. Welding, soldering, and cutting operations, where hazardous air pollutant emissions are less than 0.5 tons/yr.
13. Surface coating and solvent cleaning, where operations are exempt from District permitting (utilize less than 1 gallon per day of VOC containing materials).
14. Refrigeration units that contain less than 50 lb of refrigerant.
15. Abrasive blasting operations that meet District and State requirements.

2.0 Specific Unit Conditions

2.1 Turbines

2.1.1 Emission rates from each gas turbine and heat recovery steam generator exhaust during startup and shutdown shall not exceed the following:

Combustion Turbine Emission Limitations during Startup and Shutdown		
Pollutant	Maximum Pounds Per Hour (worst-case turbine)	Pounds per Startup or Shutdown (both turbines combined)
NOx	37.1	122.8
CO	89.5	204.8

Origin: Final Determination of Compliance, Condition 55

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.2 Emission rates from each gas turbine and heat recovery steam generator exhaust, except during startup and/or shutdown, or excursions shall not exceed the following:

Combustion Turbine Emission Limitations Per Turbine Excluding Startup And Shutdown	
Pollutant	Pounds/Hour
CO	6.2 (three-hour rolling average)
NOx	5.1 (one-hour average)
PM-10	4.7
SOx	1.0
VOCs	1.8

Origin: FDOC, Condition 57

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.3 Quarterly emissions shall not exceed the levels shown below:

Gas Turbines							
Pollutant	Lbs/hr Max Two Turbine	Lbs/day Max Two Turbines	Quarter 1 (lbs/quarter) Two turbines	Quarter 2 (lbs/quarter) Two Turbines	Quarter 3 (lbs/quarter) Two turbines	Quarter 4 (lbs/quarter) Two Turbines	Tons/Year Two Turbines
NOx	74.2	406.0	15,399	12,965	17,496	15,422	30.64
CO	179.0	629.5	26,787	32,590	28,175	29,862	58.71
VOCs	39.4	223.1	5,791	7,306	6,630	6,848	13.29
PM-10	6.4	211.8	16,300	13,692	17,789	17,569	32.67
SOx	1.3	44.0	3,385	2,843	3,694	3,648	6.78

Origin: FDOC, Condition 60

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.4 The ammonia slip shall not exceed 10 ppmv @15% O₂. Compliance with ammonia slip shall be demonstrated by using the following calculation procedure:

Ammonia slip ppmv @ 15% O₂ = ((a-(bxc/1,000,000))x1,000,000)/b) x d
where

a = ammonia injection rate (lb/hr)/17 (lb/lb.mol.)

b = dry exhaust gas flow rate (lb/hr)/29(lb/lb.mol.)

c = change in measured NOx concentration ppmv at 15% O₂ across catalyst

d = correction factor

The correction factor shall be derived annually during compliance testing by comparing the measured and calculated ammonia slip.

Origin: FDOC, Condition 51

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.5 The emissions from the gas turbine after air pollution controls shall not exceed the following:

Gas Turbine PPMV Limitations Excluding Startup, Shutdown and Excursions		
NOx	CO	VOC
2.0 ppmvd @ 15% O ₂ , 1-hour average	4 ppmvd @ 15% O ₂ , 3-hour average	2 ppmvd @ 15% O ₂ , 1-hour average

Origin: FDOC, Condition 52

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.6 The 2.0 ppmvd NOx emission limit is averaged over 1 hour at 15 percent oxygen, dry basis. The limit shall not apply to the first six (6) 1-hour average NOx emissions above 2.0 ppmvd, dry basis at 15% O₂, in any calendar quarter period for each combustion gas turbine provided that it meets all of the following requirements:

1. This equipment operates under any one of the qualified conditions described below:
 - a. Rapid combustion turbine load changes due to the following conditions:
 - i. Load changes initiated by the California ISO or a successor entity when the plant is operating under Automatic Generation Control; or
 - ii. Activation of a plant automatic safety or equipment protection system which rapidly decreases turbine load
 - b. The first two 1-hour reporting periods following the initiation/shutdown of a fogging system injection pump
 - c. The first two 1-hour reporting periods following the initiation/shutdown of combustion turbine water injection
 - d. The first two 1-hour reporting periods following the initiation of HRSG duct burners
 - e. Events as the result of technological limitations identified by the operator and approved in writing by the District.
2. The 1-hour average NOx emissions above 2.0 ppmv, dry basis at 15% O₂, did not occur as a result of operator neglect, improper operation or maintenance, or qualified breakdown under Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance. Notification to the District is required within two hours of a qualified event.
3. The qualified operating conditions described in (A) above are recorded in the plant's operating log within 24 hours of the event, and in the CEMS by 5 p.m. the next business day following the qualified operating condition. The notations in the log and CEMS must describe the date and time of entry into the log/CEMS and the plant operating conditions responsible for NOx emissions exceeding the 2.0 ppmv 1-hour average limit. In addition, these excursions must be identified in the CEMS quarterly reports.
4. The 1-hour average NOx concentration for periods that result from a qualified operating condition does not exceed 25 ppmv, dry basis at 15 percent O₂.
5. All NOx emissions during these events shall be included in all calculations of hourly, daily, and annual mass emission rates as required by this permit.

Origin: FDOC, Condition 53

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.7 Startup is defined as the period beginning with turbine light-off (firing) until the unit meets the lb/hr and ppmv emission limits in this permit. Shutdown is defined as the period beginning with initiation of turbine shutdown sequence and ending with cessation of firing of the gas turbine engine. Startup and shutdown durations shall not exceed 3.0 hours and 1 hour, respectively, per occurrence.

Origin: FDOC, Condition 21

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.8 NOx, excluding the thermal stabilization period (i.e. startup period which is not to exceed 3 hours), shall not exceed the following levels under load conditions:

9 x EFF/25 ppm, @ 15% O2, averaged over 15 minutes:

Where: EFF(efficiency) is the higher of the following:

$$EFF_1 = \frac{3412 \times 100\%}{AHR}$$

AHR = Actual Heat Rate at HHV of Fuel (BTU/KW-HR)]

or

$$EFF_2 = \frac{MRE \times LHV}{HHV}$$

MRE = Manufacturer's Rated Efficiency with Air Pollution Equipment at LHV, which is the manufacturer's continuous rated percent efficiency of the gas turbine with air pollution equipment after correction from LHV to HHV of the fuel at peak load for that facility.

Origin: FDOC, Condition 22

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.9 The gas turbines shall be fired exclusively on pipeline grade natural gas.

Origin: FDOC, Condition 10

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.10 Roseville Electric shall install a selective catalytic reduction (SCR) system and an oxidation catalyst on the gas turbine. The SCR and oxidation catalyst equipment shall be operated whenever the gas turbine is operated except during commissioning.

Origin: FDOC, Condition 15

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.11 The gas turbine engine and generator lube oil vents shall be equipped with mist eliminators.

Origin: FDOC, Condition 16

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.12 The gas turbine engines shall be fired exclusively on pipeline quality natural gas with a sulfur content no greater than 0.50 grains of sulfur compounds per 100 dry scf of natural gas.

Origin: FDOC, Condition 20

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.13 The hours of operation of each gas turbine shall not exceed the following:

Power Plant Gas Turbine Operating Schedule					
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Total operating hours	2,096	1,864	2,132	2,145	8,237

Origin: FDOC, Condition 13

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.1.14 Daily emissions shall not exceed the following rates:

Facility Daily Emission Limits (lbs)				
Pollutant	Two Turbines	Cooling Tower	Diesel Emergency Generator	Diesel Fire Pump
NOx	406.0	--	4.31	1.72
CO	629.5	--	0.84	0.09
VOC	223.1	--	0.16	0.05
PM-10	226.8	16.3	0.14	0.03
SO2	47.1	--	0.10	0.19

Origin: FDOC, Condition 59

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.2 Cooling Tower

2.2.1 PM-10 emission rate shall not exceed the following:

Cooling Tower Emission Limitations					
Pollutant	Pounds Per Day	Quarter 1 (Pounds/quarter)	Quarter 2 (Pounds/quarter)	Quarter 3 (Pounds/quarter)	Quarter 4 (Pounds/quarter)
PM-10	16.3	1,471	1,487	1,504	1,504

Origin: FDOC, Condition 70

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.2.2 Compliance with the PM-10 emission limit shall be demonstrated as follows: PM-10 = cooling water recirculation rate * total dissolved solids concentration in the blowdown water * design drift rate.

Origin: FDOC, Condition 71

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.2.3 No hexavalent chromium containing compounds shall be added to the cooling water.

Origin: FDOC, Condition 66

Authority: Rule 904, Airborne Toxic Control Measure, Hexavalent Chromium Emissions from Cooling Towers [adopted 05/07/91]

District Only

2.2.4 Drift eliminator drift rate shall not exceed 0.0005% of the circulating water flow.

Origin: FDOC, Condition 67

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.2.5 Daily emissions shall not exceed the following rates:

Facility Daily Emission Limits (lbs)				
Pollutant	Two Turbines	Cooling Tower	Diesel Emergency Generator	Diesel Fire Pump
NOx	406.0	--	4.31	1.72
CO	629.5	--	0.84	0.09
VOC	223.1	--	0.16	0.05
PM-10	226.8	16.3	0.14	0.03
SO2	47.1	--	0.10	0.19

Origin: FDOC, Condition 59

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.3 Fire Pump

2.3.1 The sulfur content of the diesel fuel used shall not exceed 15 ppm by weight.

Origin: FDOC, Condition 88

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.3.2 Nitrogen oxide emissions from the fire pump diesel engine shall not exceed 6.9 grams per brake horsepower - hour. This may be demonstrated by manufacturer's emissions data sheet.

Origin: FDOC, Condition 94

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.3.3 PM-10 emissions from the fire pump diesel engine shall not exceed 0.4 grams per brake horsepower - hour. This may be demonstrated by manufacturer's emissions data sheet.

Origin: FDOC, Condition 95

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.3.4 The fire pump diesel engine shall meet the requirements of the California Air Resources Board Airborne Toxic Control Measure for Stationary Compression Ignition Engines when it becomes effective.

Origin: FDOC, Condition 96

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

District Only

2.3.5 Operation for maintenance and testing of the diesel engine fire pump shall be limited to 30 hours per year.

Origin: FDOC, Condition 86

Authority: Rule 502, New Source Review § 110 [amended 11/03/94]

District Only

2.3.6 Operation for other than maintenance and testing purposes shall be limited to involuntary interruptions of electrical power. Operation shall not exceed 24 hours without prior authorization by the District Air Pollution Control Officer.

Origin: FDOC, Condition 87

Authority: Rule 502, New Source Review § 110 [amended 11/03/94]

District Only

2.3.7 Daily emissions shall not exceed the following rates:

Facility Daily Emission Limits (lbs)				
Pollutant	Two Turbines	Cooling Tower	Diesel Emergency Generator	Diesel Fire Pump
NOx	406.0	--	4.31	1.72
CO	629.5	--	0.84	0.09
VOC	223.1	--	0.16	0.05
PM-10	226.8	16.3	0.14	0.03
SO2	47.1	--	0.10	0.19

Origin: FDOC, Condition 59

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.4 Emergency Generator

2.4.1 The sulfur content of the diesel fuel used shall not exceed 15 ppm by weight.

Origin: FDOC, Condition 101

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.4.2 Nitrogen oxide emissions from the emergency generator diesel engine shall not exceed 6.9 grams per brake horsepower - hour. This may be demonstrated by manufacturer's emissions data sheet.

Origin: FDOC, Condition 107

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.4.3 PM-10 emissions from the emergency generator diesel engine shall not exceed 0.4 grams per brake horsepower - hour. This may be demonstrated by manufacturer's emissions data sheet.

Origin: FDOC, Condition 108

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.4.4 The engine shall meet the requirements of the California Air Resources Board Airborne Toxic Control Measure for Stationary Compression Ignition Engines when it becomes effective.

Origin: FDOC, Condition 109

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

District Only

2.4.5 Operation for maintenance and testing of the emergency diesel engine and generator shall be limited to 30 hours per year.

Origin: FDOC, Condition 99

Authority: Rule 502, New Source Review § 110 [amended 11/03/94]

District Only

2.4.6 Operation for other than maintenance and testing purposes shall be limited to involuntary interruptions of electrical power. Operation shall not exceed 24 hours without prior authorization by the District Air Pollution Control Officer.

Origin: FDOC, Condition 100

Authority: Rule 502, New Source Review § 110 [amended 11/03/94]

District Only

2.4.7 Daily emissions shall not exceed the following rates:

Facility Daily Emission Limits (lbs)				
Pollutant	Two Turbines	Cooling Tower	Diesel Emergency Generator	Diesel Fire Pump
NOx	406.0	--	4.31	1.72
CO	629.5	--	0.84	0.09
VOC	223.1	--	0.16	0.05
PM-10	226.8	16.3	0.14	0.03
SO2	47.1	--	0.10	0.19

Origin: FDOC, Condition 59

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

2.5 Facility-Wide Emissions

2.5.1 Total facility emissions shall not exceed the following quarterly emission rates:

Facility Quarterly Emission Limits					
Pollutant	Quarter 1 (lbs)	Quarter 2 (lbs)	Quarter 3 (lbs)	Quarter 4 (lbs)	Year (tons/year)
NOx	15,546	13,412	17,646	15,572	31.09
CO	27,121	33,872	28,515	30,202	59.86
VOC	5,832	7,455	6,672	6,890	13.42

PM-10	17,673	15,513	19,168	19,158	35.95
SO2	3,400	2,893	3,709	3,663	6.83

Origin: FDOC, Condition 63

Authority: Rule 502, New Source Review 301 § 302 [amended 11/03/94]

3.0 Facility-Wide Conditions

3.1 Opacity (Rule 202 and 203)

Stack emission opacity as dark or darker than Ringelmann No. 1 (20% opacity) for period or periods aggregating more than three (3) minutes in any one hour is prohibited and is in violation of District Rule 202, Visible Emissions.

Origin: FDOC, Conditions 48, 91 and 104

Authority: Rule 202, Visible Emissions [amended 05/20/85]

3.2 Nuisance (Rule 205)

No emissions are permitted, from any source, which are a nuisance per District Rule 205, Nuisance.

Origin: FDOC, Condition 47, 69, 90 and 103

Authority: Rule 205, Nuisance [amended 05/24/77]

District Only

3.3 PM Limit (Rule 207)

In accordance with District Rule 207, Particulate Matter, Roseville Electric shall not release or discharge from any source or single processing unit, exclusive of sources emitting combustion contaminants only, particulate matter in excess of 0.1 gr/dscf at standard conditions.

Origin: Rule 207, Particulate Matter [amended 10/19/93]

Authority: Rule 207, Particulate Matter [amended 10/19/93]

District Only

3.4 Specific Contaminant Limit (Rule 210)

Particulate matter emissions shall not exceed 0.1 grains per cubic foot of gas calculated at 12 percent CO at standard conditions.

Sulfur compound emissions calculated as SO₂ shall not exceed 0.2 percent by volume. (Rule 210).

Origin: FDOC, Conditions 49, 50, 92, 93, 105, and 106

Authority: Rule 210, Specific Contaminants [amended 10/19/93]

3.5 Process PM Limit (Rule 211)

Roseville Electric shall not discharge in any one hour from any source of emissions, solid particulate matter in excess of the amount calculated using the following equations:

For Process rates less than 30 tons per hour;

$$E = 3.59 P^{0.62}$$

For Process weight > 30 tons per hour;

$$E = 17.31 P^{0.16}$$

Where:

E = Emission limit in pounds per hour

P = Process weight rate in tons per hour

Origin: Rule 211, Process Weight [amended 10/19/93]

Authority: Rule 211, Process Weight [amended 10/19/93]

3.6 Fugitive Dust (Rule 228)

3.6.1 A person shall not cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area (including disturbance as a result of the raising and/or keeping of animals or by vehicle use), such that the presence of such dust remains visible in the atmosphere beyond the boundary line of the emission source.

Origin: Rule 228, Fugitive Dust, Section 301 [amended 04/10/03]

Authority: Rule 228, Fugitive Dust, Section 301 [amended 04/10/03]

District Only

3.6.2 In addition to the requirements of Rule 202, Visible Emissions, a person shall not cause or allow fugitive dust generated by active operations, an open storage pile, or a disturbed surface area, such that the fugitive dust is of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke as dark or darker in shade as that designated as No. 2 on the Ringelmann Chart (i.e. 40% opacity), as published by the United States Bureau of Mines.

Origin: Rule 228, Fugitive Dust, Section 301 [amended 04/10/03]

Authority: Rule 228, Fugitive Dust, Section 302 [amended 04/10/03]

District Only

3.6.3 All service roads and plant areas shall be maintained in a manner that effectively controls fugitive dust and prevents the violations of the California Health and Safety Code Section 41700 and District Rule 205, Nuisance, and District Rule 228, Fugitive Dust.

Origin: Rule 205, Nuisance [amended 05/24/77], and Rule 228, Fugitive Dust [amended 04/10/03]

Authority: Rule 205, Nuisance [amended 05/24/77], and Rule 228, Fugitive Dust [amended 04/10/03]

District Only

3.7 Inspection Authority

The authorized District agents shall have the right of entry to any premises on which an air pollution emission source is located for the purpose of inspecting such source, including securing samples of emissions therefrom, or any records required to be maintained therewith by the District.

Origin: FDOC, Condition 115

Authority: Rule 402, Authority to Inspect [amended 05/24/77]

3.8 Report Upsets (Rule 404)

Roseville Electric shall notify the District within two (2) normal District business hours of detection of any upset conditions, breakdown or scheduled maintenance which cause emissions in excess of limits established by District Rule 404.

Origin: FDOC, Condition 117

Authority: Rule 404, Upset Conditions, Breakdown, or Scheduled Maintenance § B.1 [amended 06/19/79]

District Only

3.9 Source Record Keeping and Reporting (Rule 408)

Upon notification from the District, Roseville Electric shall maintain records of the nature and amounts of emissions from any stationary source and/or any other information as may be deemed necessary by the District to determine whether such source is in compliance with applicable emission limitations or other control measures. The Air Pollution Control Officer may require that such records be certified by a professional engineer, registered in the State of California. Such studies shall be at the expense of the person causing the emissions. The information recorded shall be summarized and reported to the District, on forms or formats as furnished by the District, and shall be submitted within 45 days after the end of the reporting period. Reporting periods are January 1 - June 30 and July 1 - December 31, except that the initial report period shall commence on the date the District issues notification of the record keeping requirements. Information reported by Roseville Electric and copies of the summarizing reports submitted to the District shall be retained by Roseville Electric for 5 years after the date on which the pertinent report is submitted

Origin: Rule 408, Source Record Keeping and Reporting [amended 05/24/77]

Authority: Rule 408, Source Record Keeping and Reporting [amended 05/24/77]

3.10 General District Permit Requirements (Rule 501)

3.10.1 Permit Revision (Rules 501 and 507)

3.10.1.1 Revisions to this Title V Permit to Operate may be requested pursuant to District Rule 501, General Permit Requirements, Section 400 and District Rule 507, Title V Permit to Operate, Sections 302.6 and 302.7.

Origin: Rule 501, General Permit Requirements § 400 [amended 11/03/94]; Rule 507 § 302.6 and § 302.7 [amended 04-17-01]

Authority: Rule 501, General Permit Requirements § 400 [amended 11/03/94]; Rule 507 § 302.6 and § 302.7 [amended 04/17/01]

3.10.1.2 Revisions to this permit may be requested pursuant to District Rule 501, General Permit Requirements, Section 403.

Origin: Rule 501, General Permit Requirements, Section 403

Authority: Rule 501 § 403

3.10.2 Equipment Modification AC Required (Rule 501)

3.10.2.1 Authorization to construct the equipment listed and as prescribed in the approved plans and specifications is hereby granted, subject to the specified permit conditions. The construction and operation of listed equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted in the conditions. Deviation from the approved plans is not permissible without first securing approval for the changes from the District Air Pollution Control Officer.

Origin: FDOC, Condition 112

Authority: Rule 501, General Permit Requirements § 300 [amended 11/03/94]

3.10.2.2 After obtaining any required pre-construction permits, a responsible official shall submit a standard District application for each emissions unit affected by a proposed permit revision that qualifies as a significant permit modification or a minor permit modification.

Origin: Rule 507, Federal Operating Permit Program, § 302.6, § 302.7 [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program [amended 04/17/01]

3.10.2.3 Any alteration of the subject equipment, including a change in the method of operation, shall be reported to the District. Such alternations may require an Authority to Construct Permit.

Origin: FDOC, Condition 118

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

3.10.3 Limit Exceedance Prohibited (Rule 501)

Exceeding any of the limiting condition is prohibited without prior application for, and the subsequent granting of a permit modification pursuant to District Rule 501, General Permit Requirements, Section 400.

Origin: FDOC, Condition 119

Authority: Rule 501, General Permit Requirements § 400 [amended 11/03/94]; Rule 507, Federal Operating Permit Program § 302.6, § 302.7 [amended 04/17/01]

3.10.4 Operating Compliance Plan

Roseville Electric shall maintain an Operating Compliance Plan for the new CTG/HRSG which will assure that the air pollution control equipment will be properly maintained and that necessary operational procedures are in place to continuously achieve compliance with this permit. The Operating Compliance Plan shall include a description of the process monitoring program and devices to be used.

1. The plan shall specify the frequency of surveillance checks that will be made of process monitoring devices and indicators to determine continued operation within permit limits. A record or log of individual surveillance checks shall be kept to document performance of the surveillance.
2. The plan shall include the frequency and methods of calibrating the process monitoring devices.
3. The plan shall specify for each emission control device:
 - a. Operation and maintenance procedures that will demonstrate continuous operation of the emission control device during emission producing operations; and
 - b. Records that must be kept to document the performance of required periodic maintenance procedures.
4. The plan shall identify what records will be kept to comply with air pollution control requirements and regulations and the specific format of the records. These records shall include at least the Recordkeeping information required by this permit. The information must include emission monitoring evaluations, calibration checks and adjustments, and maintenance performed on such monitoring systems.

5. The plan shall be submitted to the District 30 days prior to startup of the gas turbines. The plan must be implemented upon approval by the District Air Pollution Control Officer.
6. The plan shall be resubmitted to the District for approval upon any changes to compliance procedures described in the plan, or upon the request of the District Air Pollution Control Officer

Origin: FDOC, Condition 11

Authority: Rule 501, General Permit Requirements § 503.c [amended 11/03/94]

3.10.5 Toxics Hot Spots Compliance (Rule 501)

Compliance of the permitted facility is required with the provisions of the "Air Toxics 'Hot Spots' Information and Assessment Act" of 1987 (Health and Safety Code Sections 44300 et seq.).

Origin: FDOC, Condition 121

Authority: HSC § 44300 et seq.; Rule 501, General Permit Requirements § 303.1 [amended 11/03/94]

District Only

3.10.6 Change of Ownership (Rule 501)

3.10.6.1 In the event of a change of ownership, an application must be submitted to the District.

Origin: Rule 501, General Permit Requirements § 303 [amended 11/03/94]

Authority: Rule 501, General Permit Requirements § 303 [amended 11/03/94]

3.10.6.2 Upon any change in control or ownership of facilities constructed, operate, or modified under authority of this Title V Permit to Operate, the requirements contained in this Title V Permit to Operate shall be binding on all subsequent owners and operators.

Origin: FDOC, Condition 120

Authority: Rule 501, General Permit Requirements § 303.1 [amended 11/03/94]

3.10.7 Permit Posting (Rule 501)

This permit shall be maintained on the premises of the subject equipment.

Origin: FDOC, Condition 114

Authority: Rule 501, General Permit Requirements § 303.1 [amended 11/03/94]

3.10.8 Permit Not Permission to Violate Laws (Rule 501)

This Title V Permit to Operate does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, of the Health and Safety Code of the State of California or the Rules and Regulations of the Air Pollution Control District. The permit(s) cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other governmental agencies.

Origin: Rule 501, General Permit Requirements § 303.6 [amended 11/03/94]

Authority: Rule 501, General Permit Requirements § 303.6 [amended 11/03/94]

3.10.9 Equipment Must Operate as Specified (Rule 501)

Operation of equipment must be conducted in compliance with all data and specifications submitted with the application under which it was originally issued an Authority to Construct or Permit to Operate.

Origin: Rule 501, General Permit Requirements § 303.3 [amended 11/03/94]

Authority: Rule 501, General Permit Requirements § 303.3 [amended 11/03/94]

3.11 New Source Review Requirements (Rule 502)

3.11.1 Violations

In the event of any violation of the District Rules and Regulations, Roseville Electric shall take action to end such violation.

Origin: FDOC, Condition 116

Authority: Rule 502, New Source Review [amended 08/09/01]

3.11.2 Notify District of Facility Modifications

Prior to modification as defined in District Rule 502 Section 227, the plant manager, or designee, shall

report to the District immediately any changes in production rates or operation schedules, changes in operation methods or fuel characteristics, the addition to or removal of permitted equipment, and changes of any facilities or systems installed or used to achieve compliance with the District Rules and Regulations in addition to the terms and conditions of this Title V Permit to Operate.

Origin: Rule 502, New Source Review [amended 08/09/01], Rule 507, Federal Operating Permit Program § 222 and 302.6 Permit Modification [amended 04/17/01]

Authority: Rule 502, New Source Review [amended 08/09/01], Rule 507, Federal Operating Permit Program § 222 and 302.6 Permit Modification [amended 04/17/01]

3.11.3 General Operating Condition

Operation of permitted equipment shall be limited to the maximum rates and schedules of operation, and the specified process materials of approved plans and specifications submitted to the District in application submittals unless otherwise prescribed in these conditions

Origin: Rule 502, New Source Review § 303 [amended 11/03/94]

Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

3.12 Emission Statement (Rule 503)

Roseville Electric shall provide the District with a written emission statement showing actual emissions of volatile organic compounds and oxides of nitrogen. Pursuant to District Rule 503 Roseville Electric shall submit this emission statement on a form or in a format specified by the Air Pollution Control Officer. The statement shall contain the following information:

1. Information contained in the California Air Resources Board's Emission Inventory Turn Around Document as described in Instructions for the Emission Data System Review and Update Report; and
2. Actual emissions of volatile organic compounds and oxides of nitrogen, in tons per year, for the calendar year prior to the preparation of the emission statement; and
3. Information regarding seasonal or diurnal peaks in the emission of affected pollutants; and
4. Certification by a responsible official of Roseville Electric that the information contained in the emission statement is accurate to the best knowledge of the individual certifying the emission statement.

Origin: FDOC Condition 42

Authority: Rule 503, Emission Statement [amended 09/21/93]

District Only

3.13 Transfer of Ownership (Rule 507)

Prior to the transfers of ownership or operational control of a stationary source, the Air Pollution Control Officer must receive a written agreement which specifies a date for the transfer of permit responsibility, coverage, and liability from the current to the prospective owner.

Origin: Rule 507, Federal Operating Permit Program § 202.4 Transfer [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 202.4 Transfer [amended 04/17/01]

3.14 Permit Compliance (Rule 507)

Roseville Electric shall comply with all permit conditions.

Origin: Rule 507, Federal Operating Permit Program § 402.2k [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2k [amended 04/17/01]

3.15 Hexavalent Chromium (Rule 904)

Any use of Hexavalent Chromium in the cooling towers is prohibited per District Rule 904, Airborne Toxic Control Measure, Hexavalent Chromium Emissions from Cooling Towers.

Origin: FDOC, Condition 66

Authority: Rule 904, Airborne Toxic Control Measure, Hexavalent Chromium Emissions from Cooling Towers [adopted 05/07/91]

District Only

3.16 Miscellaneous Federal Requirements

3.16.1 Protection of Stratospheric Ozone

Maintenance, service, repair or disposal of appliances containing ozone depleting compounds as defined in Appendix A and Appendix B to Subpart A of 40 CFR Part 82 shall be performed by persons

certified by a technician certification program approved pursuant to 40 CFR Part 82.161.

Origin: 40 CFR Part 82, Protection of Stratospheric Ozone

Authority: 40 CFR Part 82, Protection of Stratospheric Ozone

3.16.2 Chemical Accident Prevention Provisions

If, as defined in 40 CFR Part 68.3, Roseville Electric becomes subject to 40 CFR Part 68, then Roseville Electric shall submit a risk management plan (RMP) by the date specified in 40 CFR Part 68.10. A certification of compliance with this condition shall be included as part of the annual certification required by this Title V permit to operate.

Origin: 40 CFR Part 68, Chemical Accident Prevention Provisions

Authority: 40 CFR Part 68, Chemical Accident Prevention Provisions

3.16.3 National Emission Standards for Hazardous Air Pollutants, Asbestos

For demolition and renovation projects involving material containing Asbestos, Roseville Electric shall comply with the requirements of 40 CFR 61, National Emission Standards for Hazardous Pollutants, Sections 60.145 through 61.147.

Origin: 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants, Subpart M

Authority: 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants, Subpart M

3.16.4 General Federal Requirement

Roseville Electric shall operate the stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60, and 61 and all other applicable federal, state and local air quality regulations.

Origin: 40 CFR § Parts 52, 60, and 61

Authority: 40 CFR § Parts 52, 60, and 61

3.17 Portable Equipment

Any equipment, including portable equipment, shall comply with all applicable requirements while operating at the facility, including District Permit and Prohibitory Regulations, or be State-registered portable equipment. State-registered portable equipment shall comply with State registration requirements. A copy of the State registration shall be readily available whenever the State-registered portable equipment is at the facility.

Origin: FDOC, Condition 110

Authority: Rule 501, General Permit Requirements [amended 11/03/94]; HSC § 41753

3.18 Acid Rain

Roseville Electric shall comply with the Federal Acid Rain Program requirements (Title IV of the Federal Clean Air Act, 40 CFR Parts 72 – 78), including:

1. Sulfur dioxide (SO₂) emissions allowances must be obtained, according to procedures established in regulations under Title IV of the Federal Clean Air Act, for SO₂ emissions from the natural gas fired turbines.
2. The Acid Rain permit application is incorporated by reference into this permit.
3. This permit does not allow the use of SO₂ emission allowances as a defense for noncompliance with any applicable federal or District requirement.
4. This permit does not relieve the permittee of the responsibility to conduct, maintain, and operated in compliance with all applicable Federal or District requirements.

Origin: Rule 507, Federal Operating Permit Program, § 402.2k [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program, § 402.2k [amended 04/17/01]; 40 CFR Part 72 - 78

3.19 Good Operational Practices

All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this Title V permit shall be operated and maintained in good working order, consistent with good air pollution control practices, and be operated as efficiently as possible so as to minimize air

pollutant emissions including during startup, shutdown, and malfunction.

Origin: Rule 507, Federal Operating Permit Program, § 402.2k [amended 04/17/01]

Authority: 40 CFR Part 60, § 60.4333

3.20 New Source Performance Standards, Subpart A and Subpart Db

The boiler must comply with all of the provisions of 40 CFR Part 60, Subpart Db ("Standards of Performance for Industrial, Commercial, Institutional Steam Generation Units), and the general provisions of the 40 CFR Part 60 Subpart A (General Provisions of New Source Performance Standards), including:

1. Utilization of credible evidence or information to determine compliance (40 CFR 60.11(g)).
2. Concealment of emissions (40 CFR 60.12).
3. CEMS data collection procedures and collection frequency (40 CFR 60.13(e)).
4. CEMS installation and location procedures (40 CFR 60.13(f)).
5. CEMS data handling procedures (40 CFR 60.13(h)).
6. Alternative monitoring requests (40 CFR 60.13(i) and (j)).
7. General notification and reporting requirements (40 CFR 60.19).

Origin: Rule 507, Federal Operating Permit Program, § 402.2k [amended 04/17/01]

Authority: 40 CFR Part 60, § 60.1-60.19

4.0 Standard Terms and Conditions

4.1 Permit Life/Term and Posting

This Title V Permit to Operate shall expire five years from the time of issuance. Permit expiration terminates Roseville Electric's right to operate unless a timely renewal application is submitted.

Origin: Rule 507, Federal Operating Permit Program § 402.2.p [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.p [amended 04/17/01]

4.2 Payment of Fees

Roseville Electric shall pay all District fees including any supplemental annual fee, as calculated the procedures specified in Section 403 of District Rule 507, on a timely basis. Failure to remit fees on a timely basis shall result in the forfeiture of this Title V Permit to Operate. Operation without a permit subjects the source to potential enforcement action by the District and the U.S. EPA pursuant to § 502(a) of the Clean Air Act.

Origin: Rule 507, Federal Operating Permit Program § 402.2.o [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.o [amended 04/17/01]

4.3 Right of Entry

The Regional Administrator, the Executive Officer of the California Air Resources Board, the Air Pollution Control Officer, or their authorized representatives, upon the presentation of credentials, shall be permitted:

1. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Title V Permit to Operate; and
2. At reasonable times to have access to, inspect and copy any records required to be kept under the terms and conditions of this Title V Permit to Operate; and
3. To inspect any equipment at the stationary source, operation, work practices, emission-related activities or method required in this Title V Permit to Operate; and
4. To sample emissions from the source or other monitoring activities.

Origin: Rule 507, Federal Operating Permit Program § 402.2.j [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.j [amended 04/17/01]

4.4 Severability

The provisions of this Title V Permit to Operate are severable, and, if any provision of this Title V Permit to Operate is held invalid, the remainder of this Title V Permit to Operate shall not be affected thereby.

Origin: Rule 507, Federal Operating Permit Program § 402.2.m [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.m [amended 04/17/01]

4.5 Need to Halt or Reduce Activity Not a Defense

Roseville Electric shall not use the "need to halt or reduce a permitted activity in order to maintain compliance" as a defence for non-compliance with any permit condition.

Origin: Rule 507, Federal Operating Permit Program § 402.2.k.4 [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.k.4 [amended 04/17/01]

4.6 Modification, Revocation, Reopening for Cause

This Title V Permit to Operate may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by Roseville Electric for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay any permit condition.

Origin: Rule 507, Federal Operating Permit Program § 402.2 k.5 [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2 k.5 [amended 04/17/01]

4.7 Submit Information and Records

Within a reasonable time period, Roseville Electric shall furnish any information requested by the Air Pollution Control Officer, in writing, for the purpose of determining:

1. Compliance with the permit, or
2. Whether or not cause exists for a permit or enforcement action.

For information claimed to be confidential, Roseville Electric may furnish such information directly to the Air Pollution Control Officer along with a claim of confidentiality.

Origin: Rule 507, Federal Operating Permit Program § 402.2.k.6 [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.k.6 [amended 04/17/01]

4.8 Duty to Comply

Roseville Electric shall comply with provisions of this Title V Permit to Operate. Any permit noncompliance constitutes grounds for enforcement action; for permit termination, revocation and re-issuance, or modification; or for denial for a permit renewal application.

Origin: Rule 507, Federal Operating Permit Program § 402.2 k.1 and 402.2.k.3 [amended 04-/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2 k.1 and 402.2.k.3 [amended 04/17/01]

4.9 Property Rights

This Title V Permit to Operate does not convey property rights or exclusive privilege of any sort.

Origin: Rule 507, Federal Operating Permit Program § 402.2.k.2 [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.k.2 [amended 04/17/01]

4.10 Duty to Apply for Renewal

Roseville Electric shall apply for renewal of this Title V Permit to Operate no earlier than 18 months before the date of expiration nor later than 6 months before the date of expiration.

Origin: Rule 507, Federal Operating Permit Program § 302.4 [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 302.4 [amended 04/17/01]

4.11 Emergency Provisions

4.11.1 Emergency Definition

An "emergency" is any situation arising from a sudden and reasonably unforeseeable event beyond the control of Roseville Electric (e.g., an act of God) which causes the exceedance of a technology-based emission limitation under a permit and requires immediate corrective action to restore compliance. An "emergency" shall not include noncompliance as a result of improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

Origin: Rule 507, Federal Operating Permit Program § 212 [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 212 [amended 04/17/01]

4.11.2 Effect of an Emergency

An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the reporting requirements have been met.

Origin: 40 CFR § 70.6(g) (2)

Authority: 40 CFR § 70.6(g) (2)

4.11.3 Affirmative Defense

The affirmative defense of an emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

1. Roseville Electric complied with the requirements of Rule 404, Upset conditions, Breakdown and Scheduled Maintenance, and the emergency provisions contained in all applicable federal requirements; and
2. That within two weeks of an emergency event, the responsible official submitted to the District a properly signed, contemporaneous log or other relevant evidence which demonstrates that:
 - a. An emergency occurred;
 - b. Roseville Electric can identify the cause(s) of the emergency;
 - c. The facility was being properly operated at the time of the emergency;
 - d. All steps were taken to minimize the emissions resulting from the emergency; and
 - e. Within two working days of the emergency event, Roseville Electric provided the District with a description of the emergency and any mitigating or corrective actions taken.

Origin: District Rule 507, Federal Operating Permit Program § 402.2.I [amended 04/17/01]

Authority: District Rule 507, Federal Operating Permit Program § 402.2.I [amended 04/17/01]

4.11.4 Burdens of Proof

In any enforcement proceeding, Roseville Electric has the burden of proof for establishing that an emergency occurred.

Origin: Rule 507, Federal Operating Permit Program § 402.2.I.3 [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.I.3 [amended 04/17/01]

4.12 Voluntary Emissions Caps

To the extent applicable federal requirements provide for averaging emissions increases and decreases within a stationary source without case-by-case approval, a responsible official may request, subject to approval by the Air Pollution Control Officer, to permit one or more emissions unit(s) under a voluntary emissions cap. The permit for each emissions unit shall include federally-enforceable conditions requiring that:

1. All applicable federal requirements, including those authorizing emissions averaging, are complied with;
2. No individual emissions unit shall exceed any emissions limitation, standard, or other requirement;
3. Any emissions limitation, standard, or other requirement shall be enforced through continuous emission monitoring, where applicable; and
4. All affected emissions units under a voluntary emissions cap shall be considered to be operating in violation of the permit, if the voluntary emissions cap is exceeded.

Origin: Rule 507, Federal Operating Permit Program § 402.2.r [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.r [amended 04/17/01]

4.13 Agency Addresses

Notifications or correspondence as required by this Title V Permit to Operate shall be forwarded to the following addresses:

1. Director, Air Division (Attn.: AIR-3)
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105
2. Air Pollution Control Officer
Placer County Air Pollution Control District
3091 County Center Drive, Suite 240
Auburn, CA 95603
Facsimile: 530-745-2373
E-Mail: District@placer.ca.gov

Origin: General Information

Authority: General Information

4.14 Reopening Permit for Cause

This Title V Permit to Operate shall be reopened and revised under any of the following circumstances including, but are not limited to, the following:

1. The need to correct a material mistake or inaccurate statement;
2. The need to revise or revoke a permit to operate to assure compliance with applicable federal requirements;
3. The need to incorporate any new, revised, or additional applicable federal requirements, if the remaining authorized life of the permit is 3 years or greater, no later than 18 months after the promulgation of such requirement (where less than 3 years remain in the authorized life of the permit, the Air Pollution Control Officer shall incorporate these requirements into the permit to operate upon renewal).

Origin: Rule 507, Federal Operating Permit Program § 401.8 [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.1.8 [amended 04/17/01]

4.15 Permit Revision Exemption

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V Permit to Operate.

Origin: Rule 507, Federal Operating Permit Program § 402.2.u [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.u [amended 04/17/01]

4.16 Indemnification

Roseville Electric has an obligation to defend and indemnify the District against third party challenges in

accordance with District Rule 411.

Origin: Rule 411, Indemnification of District [adopted 02/14/08]

Authority: Rule 411, Indemnification of District [adopted 02/14/08]

District Only

5.0 Alternative Operating Scenarios

5.1 Upset Conditions

For periods when Roseville Electric operates pursuant to the requirements of the Rule 404 (Upset Conditions, Breakdown or Scheduled Maintenance) and/or the qualified operating conditions for short term NOx excursions per condition 2.1.6 and/or the Emergency Provisions under 40 CFR 70.6(g), Roseville Electric will comply with all the relevant notification, monitoring, reporting and record keeping requirements contained in Rule 404, Rule 502, and 40 CFR 70.6(g).

Origin: Rule 507, Federal Operating Permit Program § 402.2.q [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.q [amended 04/17/01]

6.0 Monitoring, Testing, Record Keeping, and Reporting

6.1 General Monitoring, Record Keeping and Reporting and Testing Requirements

6.1.1 The Air Pollution Control Officer, at any time, may require such information, analyses, plans, or specifications which will disclose the nature, extent, quality, or degree of air contaminants which are, or may be, discharged by the source for which the permit was issued or applied. The Air Pollution Control Officer may require that such disclosures be certified by a professional engineer registered in the State of California. A responsible official representing the owner or operator shall certify the truth, accuracy and completeness of disclosures. Studies necessary to provide such information, shall be at the expense of the owner or operator of the source for which a permit was issued or applied.

Origin: Rule 501, General Permit Requirements § 407 [amended 11/03/04]; HSC § 42303

Authority: Rule 501, General Permit Requirements § 407 [amended 11/03/04]; HSC § 42303

6.1.2 40 CFR 60 Subpart GG – Standards of Performance for Stationary Gas Turbines

The gas turbines are required to meet the notification, recordkeeping and performance test requirements of this regulation. Roseville Electric must submit a written quarterly excess emission report to the Administrator.

Origin: FDOC, Condition 64a

Authority: 40 CFR 60

6.2 Monitoring

6.2.1 General

6.2.1.1 Frequency

Monitoring (sampling, testing, recording) shall be performed at a frequency sufficient to yield accurate, reliable and representative data with which the source's compliance with applicable limits or conditions can be demonstrated.

Origin: Rule 501, General Permit Requirements § 503.1, § 503.2 [amended 11/03/04]

Authority: Rule 501, General Permit Requirements § 503.1, § 503.2 [amended 11/03/04]

6.2.1.2 Methods

All monitoring, analytical methods, compliance certification, test methods, equipment management, and statistical procedures shall be consistent with any applicable federal requirement, including those pursuant to Sections 114(a)(3) and 504(b) of the Federal Clean Air Act, and 40 CFR Part 64.

Origin: Rule 501, General Permit Requirements

Authority: Rule 501, General Permit Requirements

6.2.2 Turbines

6.2.2.1 The gas turbines shall be equipped with continuously recording, nonresettable fuel gas flowmeters on each unit.

Origin: FDOC, Condition 17

Authority: Rule 501, General Permit Requirements § 405, § 303 [amended 11/03/94]; HSC § 42301

6.2.3 Emergency Generator

6.2.3.1 A non-resettable hour meter shall be in place on the engine set to record the hours of operation.

Origin: FDOC, Condition 98

Authority: Rule 501, General Permit Requirements [amended 11/03/94]; HSC § 41753; California Code of Regulations, Title 17, § 93115

6.2.3.2 Records of operation and maintenance (for the emergency generator) shall be kept by the Owner or Operator for a period of five years and shall be made available to the District upon request. Information required for reporting to the District includes, but is not limited to:

1. The hours of operation the engine was run for maintenance and testing.
2. The hours of operation the engine was run during interruption of electrical power.

3. Records of the sulfur content of the diesel fuel used.

Origin: FDOC, Condition 102

Authority: Rule 501, General Permit Requirements [amended 11/03/94]; HSC § 41753; California Code of Regulations, Title 17, § 93115

6.2.4 Emergency Fire Pump

6.2.4.1 A non-resettable hour meter shall be in place on the engine set to record the hours of operation.

Origin: FDOC, Condition 85

Authority: Rule 501, General Permit Requirements [amended 11/03/94]; HSC § 41753; California Code of Regulations, Title 17, § 93115

6.2.4.2 Records of operation and maintenance shall be kept by the Owner or Operator for a period of five years and shall be made available to the District upon request. Information required for reporting to the District includes, but is not limited to:

1. The hours of operation the engine was run for maintenance and testing.
2. The hours of operation the engine was run during interruption of electrical power.
3. Records of the sulfur content of the diesel fuel used.

Origin: FDOC, Condition 89

Authority: Rule 501, General Permit Requirements [amended 11/03/94]; HSC § 41753; California Code of Regulations, Title 17, § 93115

6.3 Continuous Emissions Monitoring Systems (CEMS)

6.3.1 Each gas turbine exhaust shall be equipped with continuously recording emissions monitor for NO_x, CO, and O₂ dedicated to this unit. Continuous emission monitor shall meet the requirements of 40 CFR parts 60 and 75, and shall be capable of monitoring emissions during startups and shutdowns as well as normal operating conditions. The system shall be installed and operational prior to the cessation of commissioning when their operability will be confirmed by source testing.

Origin: FDOC, Condition 18

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.3.2 Valid excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for the purposes of this Title V Permit to Operate.

Origin: Rule 501, General Permit Requirements [amended 11/03/94]

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.3.3 Roseville Electric shall submit a CEMS QA/QC plan to the District for approval. Approval should also be required for any future changes to the plan.

Origin: FDOC, Condition 28

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.3.4 Roseville Electric shall submit to the District, prior to issuance of a Permit to Operate, information correlating the control system operating parameters to the associated NO_x, CO, PM-10, VOC and SO_x emissions. This information may be used by the District Air Pollution Control Officer to determine compliance where there is no continuous emission monitoring system available or when the continuous emission monitoring system is not operating properly.

Origin: FDOC, Condition 29

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.3.5 Audits of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District.

Origin: FDOC, Condition 39

Authority: Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance § C [amended 06/19/79]; Rule 501, General Permit Requirements § 303, § 304.2.c [amended 11/03/94]; HSC § 42706, § 42301

6.3.6 Roseville Electric shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F.

Origin: FDOC, Condition 40

Authority: 40 CFR Part 60, Appendix F

6.3.7 CEM Breakdown Procedures

In the event of a breakdown of monitoring equipment, Roseville Electric shall notify the Air Pollution Control Officer and initiate repairs. Roseville Electric shall notify the Air Pollution Control Officer of the intent to shut down any monitoring equipment at least 24 hours prior to the event. A breakdown of monitoring equipment or shutdown for scheduled maintenance which persists longer than ninety-six (96) hours shall constitute a violation of any applicable emission limitation or restriction prescribed by District Rules and Regulations, unless Roseville Electric has obtained an Emergency Variance pursuant to Rule 404.

Origin: Rule 507, Federal Operating Permit Program § 402.2.1 [amended 04/17/01]; Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance [amended 06/19/79]; Rule 501, General Permit Requirements § 304.2 [amended 11/03/94]

Authority: Rule 507, Federal Operating Permit Program § 402.2.1 [amended 04/17/01]; Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance [amended 06/19/79]; Rule 501, General Permit Requirements § 304.2 [amended 11/03/94]

District Only

6.3.8 CEM Polling

6.3.8.1 Roseville Electric shall install and maintain equipment, facilities, software and systems at the facility and at the District office that will allow the District to poll or receive electronic data from the CEMS. Roseville Electric shall make CEMS data available for automatic polling of the daily records. Roseville Electric shall make hourly records available for manual polling within no more than a one hour delay. The basic elements of this equipment include a telephone line, modem and data logger. Alternatively, an internet based system may be used. The costs of installing and operating this equipment, excluding District costs, shall be borne by Roseville Electric.

Origin: FDOC, Condition 12a

Authority: Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance § C [amended 06/19/79]; Rule 501, General Permit Requirements § 304.2.c [amended 11/03/94]; HSC § 42706

6.3.8.2 Upon notice by the District that the facility's polling system is not operating, Roseville Electric shall provide the data by a District-approved alternative format and method for up to a maximum of 30 days.

The polling data is not a substitute for other required record keeping or reporting.

Origin: FDOC, Condition 12b,c.

Authority: Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance § C [amended 06/19/79]; Rule 501, General Permit Requirements § 304.2.c [amended 11/03/94]; HSC § 42706

6.4 Testing

6.4.1 General

6.4.1.1 The District may require the conduct of emissions testing or analysis deemed necessary to demonstrate compliance with applicable requirements. If the District determines that tests are required, a written notice will be provided to Roseville Electric.

Origin: Rule 501, General Permit Requirements § 303, § 304, § 507 [amended 11/03/94]

Authority: Rule 501, General Permit Requirements § 303, § 304, § 507 [amended 11/03/94]

6.4.1.2 Except as otherwise specified in District rules, regulations, or permit conditions the test methods used for determining compliance with emission limits shall be the appropriate method:

1. Adopted by the California Air Resources Board and cited in Title 17, California Code of Regulations, Division 3, Subchapter 8, Compliance with Non-vehicular Emission Standards; or

2. Identified in 40 CFR part 50, Appendix M, Recommended Test Methods for State Implementation Plans; or
3. Identified in 40 CFR part 60, Appendix A, Test Methods; or
4. Any alternative method approved by the Air Pollution Control Officer.

Note: The Air Pollution Control Officer shall request the review of the alternate test methods by the U.S. Environmental Protection Agency and the California Air Resources Board.

Origin: Rule 501, General Permit Requirements § 501.1 [amended 11/03/94]

Authority: Rule 501, General Permit Requirements § 501.1 [amended 11/03/94]

6.4.1.3 All required testing shall be subject to the following:

1. A written test plan shall be submitted to the Air Pollution Control Officer detailing the sampling methods, analytical methods or detection principles to be used, at least thirty (30) days prior to the actual testing.
2. Independent testing contractors and analytical laboratories shall be California Air Resources Board certified to perform the test or analysis conducted.
3. Emissions limit testing shall be conducted as close as achievable to the full output process rates. RATA testing shall be conducted at 50% of full output or above.
4. The conditions and equipment in operation during testing shall be recorded.
5. Installed instrumentation readings for parameters affecting emission character or extent shall be recorded.
6. The test evaluation results shall be reported to the District within sixty (60) days of testing.

Origin: Rule 501, General Permit Requirements § 307, § 407, § 501.1 [amended 11/03/94]

Authority: Rule 501, General Permit Requirements § 307, § 407, § 501.1 [amended 11/03/94]

6.4.1.4 If the District finds that additional performance tests are required to determine compliance with District Rules and Regulations and conditions of this permit, reasonable written notice shall be provided to Roseville Electric. The performance tests shall be subject to the following restrictions (Rule 501):

1. At least thirty (30) days prior to the actual testing, a written test plan shall be submitted to the District Air Pollution Control Officer detailing the sampling methods, analytical methods or detection principles to be used. The prior written approval of the District Air Pollution Control Officer is required for the use of alternate test methods.
2. The District may require, upon reasonable written notice, the conduct by Roseville Electric of such emissions testing or analysis as may be deemed necessary by the District to demonstrate compliance with District Rules and Regulations and the limiting conditions of this permit.
3. Testing shall be conducted in accordance with 40 CFR 60, Appendix A, Methods, or equivalent methods approved by the State of California Air Resources Board (CARB) by reference in Title 17 of the California Administrative Code, or other methods specified by Roseville Electric and approved in writing by the District Air Pollution Control Officer. Independent testing contractors and analytical laboratories shall be CARB certified for the test or analysis conducted. Particulate matter testing, if requested, shall include both filterable and condensed particulate matter (e.g. Method 5 modified to include impinger catch).
4. A report of the testing shall be submitted to the District no later than sixty (60) days after the source test is performed.

Origin: FDOC, Condition 122

Authority: Rule 501, General Permit Requirements § 307, § 407, and § 501 [amended 11/03/94]

6.4.1.5 The gas turbine exhaust stacks shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods. Access ladders and/or stairs and platforms shall allow easy access to the sampling ports.

Origin: FDOC, Condition 19

Authority: Rule 501, General Permit Requirements § 405, § 303 [amended 11/03/94]; HSC § 42301

6.4.1.6 The District may hire an independent contractor to conduct performance testing on an unannounced basis.

Origin: Rule 501, General Permit Requirements § 407 [amended 11/03/94]; Rule 603, Analysis Feed [amended 08/08/96]; HSC § 42303

Authority: Rule 501, General Permit Requirements § 407 [amended 11/03/94]; Rule 603, Analysis Feed [amended 08/08/96; HSC § 42303]

6.4.2 Cooling Towers

An analysis of the cooling tower water shall be performed within 180 days of initial operation and annually thereafter.

Origin: FDOC, Condition 68

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.4.3 Turbines

6.4.3.1 A performance test shall be conducted annually for each combustion turbine/heat recovery steam generator unit.

Origin: FDOC, Condition 44

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.4.3.2 Compliance with the cold start NO_x, and CO mass emission limits shall be demonstrated for each of the gas turbines by performance testing no later than 180 days after initial operation and at least once every seven years thereafter by an ARB certified independent test firm.

Origin: FDOC, Condition 45

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.4.3.3 The following test methods shall be used PM-10: EPA Method 202 (front half and back half), NO_x: EPA Method 20, CO: EPA Method 10, VOC: EPA Method 18, and fuel gas sulfur content: ASTM D3246. Alternative test methods as approved by the District may also be used to address the source testing requirements of this permit.

Origin: FDOC, Condition 46

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.5 Record Keeping

6.5.1 All records which are required to be maintained by this permit shall be maintained for a period of five years and shall be made readily available for District inspection upon request. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P. paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the CARB, and the EPA.

Origin: FDOC, Condition 35

Authority: 40 CFR, Part 51, Appendix P. paragraphs 5.0 through 5.3.3

6.5.2 A gas turbine operating log shall be kept which includes, on a daily basis; the actual Pacific Standard Time start-up and stop time, total hours of operation, type and quantity of fuel used (liquid/gas). This information shall be available for inspection at any time from the date of entry.

Origin: FDOC, Condition 31

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.5.3 Hourly records of NO_x and CO emission concentrations (ppmv @ 15% O₂), and hourly, daily, and quarterly records of NO_x and CO emissions shall be kept. Ongoing compliance with the CO emission limits during normal operation shall be deemed compliance with the VOC emission limits during normal operation.

Origin: FDOC, Condition 32

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.5.4 Records of SO_x lb/hr, lb/day, and lb/quarter emissions shall be kept. SO_x emissions shall be based on fuel use records, natural gas sulfur content, and mass balance calculations.

Origin: FDOC, Condition 33

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.5.5 The following records shall be kept: occurrence, duration, and type of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during

which a continuous monitoring system or monitoring device was inoperative, maintenance of any continuous emission monitor emission measurements, total daily and rolling twelve month average hours of operation, hourly quantity of fuel used, and gross three hour average operating load.

Origin: FDOC, Condition 34

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.5.6 The Air Pollution Control Officer may require record keeping to verify or maintain compliance or any exemption.

Origin: Rule 501, General Permit Requirements § 503.1, § 503.2 [amended 11/03/04]

Authority: Rule 501, General Permit Requirements § 503.1, § 503.2 [amended 11/03/04]

6.5.6.1 Roseville Electric shall maintain records of all required monitoring data and support information associated with any applicable federal requirement in a permanent form suitable for inspection including:

1. Date, place, and time of sampling;
2. Operating conditions at the time of sampling;
3. Date, place, and method of analysis; and
4. The company or entity that performed the analyses;
5. Results of the analysis;
6. Copies of all reports as required by applicable federal requirements; and

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

6.5.6.2 Roseville Electric shall comply with all record keeping requirements deemed necessary by the Air Pollution Control Officer to ensure compliance with all applicable federal requirements; and

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

6.5.6.3 Roseville Electric shall support information which includes information on Continuous Monitoring Equipment operations including:

1. All calibration and maintenance records,
2. All original recordings for continuous monitoring instrumentation, and
3. Performance and all other information required by 40 CFR 60.

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

6.5.6.4 All required monitoring data and support information shall be retained for a period of at least 5 years.

Origin: Rule 507, Federal Operating Permit Program § 402.2.f.3 [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.f.3 [amended 04/17/01]

6.5.6.5 All records shall be made available to District inspectors upon request.

Origin: Rule 503, General Permit Requirements § 503.1 [amended 11/03/94]

Authority: Rule 503, General Permit Requirements § 503.1 [amended 11/03/94]

6.6 Reporting and Notifications

6.6.1 Roseville Electric shall promptly report to the Air Pollution Control Officer any deviation from permit requirements, including that attributable to upset conditions (as defined in District Rule 404). All reports of a deviation from permit requirements shall include the probable cause of the deviation and any preventive or corrective action taken. Prompt reporting is as soon as reasonably possible, but no later than two (2) hours after the deviation is detected during normal APCD business hours.

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.f.3 [amended 04/17/01]

District Only

6.6.2 Roseville Electric shall submit deviation monitoring reports at least every six months. Monitoring reports shall identify any deviation from permit requirements, including those previously reported to the Air Pollution Control Officer as required by this permit. Monitoring reports shall be submitted

within 45 days of the end of the reporting period (Reporting periods are January 1 - June 30 and July 1 - December 31) and each monitoring report shall be accompanied by a written statement from the responsible official which certifies the truth, accuracy, and completeness of the report.

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

6.6.3 Roseville Electric shall submit compliance schedule progress reports on any compliance schedule at least semi-annually. Progress reports shall contain:

1. The date when compliance will be achieved;
2. An explanation of why compliance was not, or will not be, achieved by the scheduled date; and
3. A log of any preventive or corrective actions taken.

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

6.6.4 Roseville Electric shall provide source test information annually regarding the exhaust gas NO_x concentration at ISO conditions corrected to 15 percent oxygen on a dry basis, and the demonstrated percent efficiency (EFF) of the turbine unit.

Origin: FDOC, Condition 30

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.6.5 Roseville Electric shall notify the District of any breakdown condition as soon as reasonably possible, but no later than two District business hours after its detection.

Origin: FDOC, Condition 36

Authority: HSC § 42706

District Only

6.6.6 Any violation of any emission standard listed in this permit which is indicated by the CEMS shall be reported to the District no later than 96 hours after such occurrence per California Health and Safety Code 42706.

Origin: FDOC, Condition 37

Authority: California Health and Safety Code 42706

District Only

6.6.7 The District shall be notified in writing within seven calendar days following the correction of any breakdown condition. The breakdown notification 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 methods utilized to restore normal operations.

Origin: FDOC, Condition 38

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

District Only

6.6.8 Any alteration of the subject equipment, including a change in the method of operation, shall be reported to the District. Such alternations may require an Authority to Construct Permit.

Origin: Rule 501, General Permit Requirements [amended 11/03/94]

Authority: Rule 501, General Permit Requirements [amended 11/03/94]

6.6.9 Quarterly Reports -- Excess Emissions and CEM Performance Report

Roseville Electric shall submit a written report to the Air Pollution Control Officer for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable 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; and a negative declaration when no excess emissions occurred.

Origin: FDOC, Condition 41

Authority: Rule 507, Federal Operating Permit Program [amended 04/17/01]

7.0 Compliance Plan and Certification

7.1 Compliance Plan

Roseville Electric shall implement a compliance plan. A copy of this compliance plan shall be attached and posted along with this Title V Permit to Operate. The compliance plan shall:

1. Describes the compliance status of an emissions unit with respect to each applicable federal requirement;
2. Describes how compliance will be achieved if an emissions unit is not in compliance with an applicable federal requirement at the time of permit issuance;
3. Assures that an emissions unit will continue to comply with those permit conditions with which it is in compliance; and
4. Assures that an emissions unit will comply, on a timely basis, with any applicable federal requirement that will become effective during the permit term.

Origin: Rule 507, Federal Operating Permit Program § 402.2.h [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.h [amended 04/17/01]

7.2 Compliance Certification

Roseville Electric shall submit compliance certification reports to the U.S. EPA and the Air Pollution Control Officer every twelve (12) months. The certification report shall:

1. Identify all permit terms or conditions and the means of monitoring each term or condition.
2. Include the compliance status and method(s) used to determine compliance for the current time period and over the entire reporting period of each term or condition.
3. Include any additional inspection, monitoring, or entry requirement that may be promulgated pursuant to Sections 114(a) and 504(b) of the Federal Clean Air Act between reports.
4. Be submitted on District approved forms for the compliance certification.
5. Be submitted within 45 days after the end of the reporting period of January 1-December 31.

The responsible official will certify in writing the truth, accuracy, and completeness of the certification report.

Origin: Rule 507, Federal Operating Permit Program § 402.2.n [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.n [amended 04/17/01]

7.3 Compliance Schedules

7.3.1 Should any emissions unit in compliance with applicable federal requirements become noncompliant during the certification period, Roseville Electric shall develop and submit to the District a compliance schedule. The compliance schedule shall:

1. Resemble and be at least as stringent as that contained in any judicial consent decree, administrative order, or schedule approved by the District hearing board.
2. Include:
 - a. A statement that the emissions unit will continue to comply with those federal requirements with which it is still in compliance;
 - b. A statement that the emissions unit will comply, on a timely basis, with any applicable federal requirement that may become effective during the remaining term of this Title V Permit to Operate.
 - c. A list of all preventive or corrective actions or activities taken or proposed to be taken, and the dates when these activities have or will be performed and completed.

The compliance schedule, once approved by the District, shall be incorporated into the compliance certification plan and the revised plan affixed to this Title V Permit to Operate.

7.3.2 Roseville Electric shall submit progress reports consistent with the applicable compliance schedule at least semi-annually, or more frequently if specified in the applicable schedule requirements or requested by the District. Progress reports shall include:

1. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and; and the date when compliance will be achieved;
2. A log or record of dates when such activities, milestones or compliance was achieved; and
3. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted or taken.

Origin: Rule 507, Federal Operating Permit Program § 402.2.i [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.i [amended 04/17/01]

ACID RAIN PERMIT

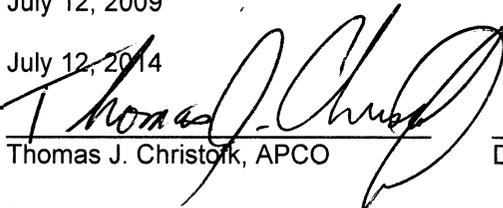
Issued to: Roseville Electric, Roseville Energy Park

Location: 5120 Phillip Road, Roseville, CA 95747

Effective date: July 12, 2009

Expiration date: July 12, 2014

Issued by:


Thomas J. Christofk, APCO

7-12-2010
Date

Statement of Basis:

1. Placer County Air Pollution Control District issues this permit pursuant to District Rule 507 Section 402.2(s), in compliance with the Title IV of the Federal Clean Air Act and 40 CFR Parts 72 – 78.

2. The permit covers the Roseville Electric (the Electric Department of the City of Roseville) natural gas combined cycle power plant at the Roseville Energy Park, located in Roseville, California, in Township 11 North, Range 5 East, Section 23. The plant is rated at 120 MW, with a peaking capacity of 160 MW. The plant includes two (2) natural gas fired combustion turbines, natural gas fired duct burners, and steam turbine. Nitrogen oxides (NO_x) and carbon monoxide (CO) emissions are controlled with the use of dry-low-NO_x combustors, oxidation catalyst, and selective catalytic reduction.

Emission Requirements:

3. Sulfur dioxide (SO₂) emissions allowances must be obtained, according to procedures established in regulations under Title IV of the Federal Clean Air Act, for SO₂ emissions from the two (2) natural gas fired turbines. Nitrogen oxides (NO_x) allowances are not required.

Permit Application:

4. The attached permit application is incorporated by reference into this permit.

Additional Requirements:

5. This permit does not allow the use of SO₂ emission allowances as a defense for noncompliance with any applicable federal or District requirement.

6. This permit does not relieve Roseville Electric of the responsibility to conduct, maintain, and operate in compliance with all applicable Federal or District requirements.

**Reports and Queries
Account Balance Report
01/15/2009**

Account Information

Account Number: 056298FACLT
Account Detail (Mini Detail) **Account Name:** Roseville Energy Park **Programs:** ARP

Representative Information

Primary

Alternate

Name: Russ Nichols

Name: Matt Garner

Company/Agency: City of Roseville, CA

Company/Agency: City of Roseville, CA

Title:

Title:

Address: 5120 Phillip Road

Address: 5120 Phillip Rd

Roseville, CA 95747

Roseville, CA 95747

Phone: (916) 774-5361

Phone: (916) 746-1691

Fax:

Fax:

Alternate:

Alternate:

Email: rnichols@roseville.ca.us

Email: mgarner@roseville.ca.us

People Detail Layout

Allowance Holdings

Program	Allowance Type	Transaction Type	Year	Serial Range	Total
ARP	Initial Allocation	Private Transfer	2005	5492289-5492309	21
ARP	Initial Allocation	Private Transfer	2010	6851696-6851729	34
ARP	Initial Allocation	Private Transfer	2015	3563547-3563596	50

Basic Table Layout



Roseville Electric
Roseville Energy Park
5120 Phillip Road
Roseville, California 95747

July 19, 2006

Ms. Donna Stone
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

Subject: Roseville Energy Park (03-AFC-1)
Title IV Acid Rain Permit

Dear Donna:

Enclosed is a copy of the Title IV Acid Rain Permit application package for the Roseville Energy Park, which was submitted to the U.S. Environmental Protection Agency today. The application package is also being sent to the Placer County Air Pollution District by copy of this letter.

If you have any questions regarding this information, please contact me at (916) 780-1171.

Sincerely,

A handwritten signature in cursive script that reads "Andrea Grenier".

Andrea Grenier
REP Compliance Manager

cc: Todd Nishikawa, PCAPCD



2090 Hilltop Circle
Roseville, CA 95747
Office (916) 746-1650
FAX (916) 746-1655
TDD (916) 774-5220
www.RosevilleElectric.org

July 17, 2006

Robert Baker
Air Division
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street
San Francisco, CA 94105

Subject: Roseville Energy Park – ORIS Code 56298
Submittal of Acid Rain Permit Application

Dear Mr. Baker:

Enclosed is Roseville Electric's Acid Rain Permit Application and Certificate of Representation for the Roseville Energy Park, a nominal 160 MW combined cycle, natural gas fired power plant currently under construction in Roseville, California. The project is subject to the requirements of the Title IV Acid Rain Program. The project is expected to commence operation by early May 2007. Copies of the Certificate of Representation and the Acid Rain Permit are being sent to the designated representative in Washington DC. In addition to submitting this application and accompanying Certificate of Representation, Roseville Electric will participate in the SO₂ allowance program. Prior to commencement of operation, Roseville will submit a CEMS Certification Protocol as well as the errata test results.

If you have any questions regarding this application, please contact me at (916) 774-5631.

Sincerely,

A handwritten signature in black ink, appearing to read 'Russ Nichols'.

Russ Nichols
Power Plant Manager

cc: USEPA Clean Air Markets Division, Washington D.C.

STEP 3**Read the
standard
requirements****Permit 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 unit 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 unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; 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).
- (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.

**STEP 3,
Cont'd.**

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 unit 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 unit that has excess emissions in any calendar year shall:

(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 of a new certificate of representation changing the designated representative;

(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.

Plant Name
(from Step 1)
Roseville Energy
Park

Liability, Cont'd.

**Step 3,
Cont'd.**

(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. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(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:

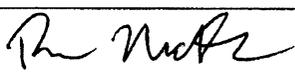
- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
- (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.

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.

STEP 4

**Read the
certification
statement,
sign, and
date**

Name Russ Nichols	
Signature 	Date 7/18/06



Certificate of Representation

For more information, see instructions and refer to 40 CFR 72.24

This submission is: New Revised (revised submissions must be complete; see instructions)

STEP 1
Identify the source by plant name, State, and ORIS code.

Plant Name: Roseville Energy Park	State: CA	ORIS Code: 56298
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STEP 2
Enter requested information for the designated representative.

Name: Russ Nichols	
Address: 5120 Phillip Road, Roseville, CA 95474	
Phone Number: (916) 774-5361	Fax Number:
E-mail address (if available): rnichols@roseville.ca.us	

STEP 3
Enter requested information for the alternate designated representative, if applicable.

Name	
Phone Number	Fax Number:
E-mail address (if available)	

STEP 4: Complete Steps 5 and 6, read the certifications, sign and date.

I certify that I was selected as the designated representative or alternate designated representative, as applicable, by an agreement binding on the owners and operators of the affected source and each affected unit at the source.

I certify that I have given notice of the agreement, selecting me as the 'designated representative' for the affected source and each affected unit at the source identified in this certificate of representation, in a newspaper of general circulation in the area where the source is located or in a State publication designed to give general public notice.

I certify that I have all necessary authority to carry out my duties and responsibilities under the Acid Rain Program on behalf of the owners and operators of the affected source and of each affected unit at the source and that each such owner and operator shall be fully bound by my actions, inactions, or submissions.

I certify that I shall abide by any fiduciary responsibilities imposed by the agreement by which I was selected as designated representative or alternate designated representative, as applicable.

I certify that the owners and operators of the affected source and of each affected unit at the source shall be bound by any order issued to me by the Administrator, the permitting authority, or a court regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, an affected unit, or where a utility or industrial customer purchases power from an affected unit under life-of-the-unit, firm power contractual arrangements, I certify that:

I have given a written notice of my selection as the designated representative or alternate designated representative, as applicable, and of the agreement by which I was selected to each owner and operator of the affected source and of each affected unit at the source; and

Allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement or, if such multiple holders have expressly provided for a different distribution of allowances by contract, that allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in accordance with the contract.

The agreement by which I was selected as the alternate designated representative, if applicable, includes a procedure for the owners and operators of the source and affected units at the source to authorize the alternate designated representative to act in lieu of the designated representative.

Plant Name (from Step 1) Roseville Energy Park
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Certificate - Page 2

Page 2 of 2

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.

 Signature (designated representative)	Date 7/18/06
Signature (alternate designated representative)	Date

STEP 5
Provide the name of every owner and operator of the source and identify each affected unit they own and/or operate.

Name				City of Roseville			Owner	Operator
ID#	1	ID#	2	ID#	ID#	ID#	ID#	ID#
ID#		ID#		ID#		ID#		ID#

Name				<input type="checkbox"/> Owner <input type="checkbox"/> Operator		
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#

Name				<input type="checkbox"/> Owner <input type="checkbox"/> Operator		
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#

STEP 6

For any new affected units listed at STEP 5 that have not commenced commercial operation, enter the projected date on which the unit is expected to commence commercial operation.

ID# 1	Projected Commence Commercial Operation Date: 05/02/2007
ID# 2	Projected Commence Commercial Operation Date: 05/02/2007
ID#	Projected Commence Commercial Operation Date:
ID#	Projected Commence Commercial Operation Date: