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# Roseville Energy Park

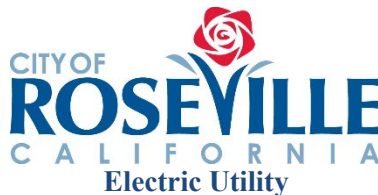
License #03-AFC-1 issued April 13, 2005

# Roseville State Power Augmentation Power Site

License #21-TPG-01 issued September 8, 2021

## **Petition for Amendment**

Submitted by:



Prepared by:  
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116 S. Grant Street  
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## Table of Contents

1.	Introduction .....	1
1.1.	Project Overview: Purpose of this Petition .....	2
1.2.	Information Requirements for Post-Certification Project Changes .....	3
2.	Description of the Project Change .....	3
2.1.	Section 1769 (A)(1)(A): A Description Of The Proposed Change, Including New Language For Any Conditions Of Certification That Will Be Affected. ....	3
2.2.	Section 1769 (A)(1)(B): A Discussion Of The Necessity For The Proposed Change And An Explanation Of Why The Change Should Be Permitted. ....	4
2.3.	Section 1769(A)(1)(C): A Description Of Any New Information Or Change In Circumstances That Necessitated The Change. ....	4
2.4.	Section 1769(A)(1)(D): An Analysis Of The Effects That The Proposed Change May Have On The Environment And Proposed Measures To Mitigate Any Significant Environmental Effects. ....	4
2.5.	Section 1769(A)(1)(E): An Analysis Of How The Proposed Change Would Affect The Project's Compliance With Applicable Laws, Ordinances, Regulations, And Standards.....	4
2.6.	Section 1769(A)(1)(F): A Discussion Of How The Proposed Change Would Affect The Public. 5	
2.7.	Section 1769(A)(1)(G): A List Of Current Assessor's Parcel Numbers And Owners' Names And Addresses For All Parcels Within 500 Feet Of Any Affected Project Linears And 1000 Feet Of The Project Site.....	5
2.8.	Section 1769(A)(1)(H): Discussion Of The Potential Effect On Nearby Property Owners, Residents, And The Public. ....	5
2.9.	Section 1769(A)(1)(I):A discussion of any exemptions from the California Environmental Quality Act, commencing with section 21000 of the Public Resources Code, that the project owner believes may apply to approval of the proposed change. ....	5
	<b>Conclusions</b> .....	6

## 1. Introduction

The City of Roseville Electric Utility (“Roseville” or “REU”) is submitting this Petition for a Amendment (“Petition”) to merge the Roseville State Power Augmentation Power Site License (21-TPG-01), internally referred to as the Roseville Peakers or RPEAK into the Roseville Energy Park License (03-AFC-1).

RPEAK was certified in response to Governor Newsom’s July 30, 2021, Proclamation of a State of Emergency for California because of sudden and severe energy shortages resulting from extreme drought, wildfires, and record-breaking heat events throughout the Western United States. To take immediate action to reduce the strain on energy infrastructure and increase energy capacity, the Governor authorized the California Energy Commission (“CEC”) to license new emergency and temporary power generators of 10 megawatts (“MW”) or more that the CEC determined could deliver net peak energy before October 31, 2021. Using the CEC’s Order number 21-0817-2 establishing a self-certification process, on September 2, 2021, REU filed a self-certification application with the CEC requesting a license to temporarily host and operate two 33.6 MW General Electric (“GE”) TM2500-G4 gas turbine package units to be located near the south-eastern corner of the existing Roseville Energy Park (“REP”) site. On September 8, 2021, the CEC granted a license to operate the RPEAK emergency and temporary power generators. In November 2024, REU took ownership of the RPEAK turbines from the California Department of Water Resource (“CDWR”). 21-TPG-01’s certification would otherwise terminate on September 8, 2026, absent the merger requested in this Petition.

Both the REP and RPEAK operate under a consolidated Title V Operating Permit issued by the Placer County Air Pollution Control District (“PCAPCD”), Permit Number REP-001, with an Effective Date of August 3, 2023 and as such, both REP and RPEAK units combined must operate within the Facility-wide Emissions annual and quarterly limits. This will not change with the approval of the Petition. Additionally, the CEC approval of RPEAK provided that the project would be allowed to operate outside of emergencies once they are able to “comply with all local, state, and federal regulatory requirements.” (TN #: 239619, Approval of License for Roseville State Power Augmentation Power Site, p. 2.) The Commission determined compliance with all local, state, and federal requirements in July 2025. (TN #265011, Determination that No Petition to Amend is Required for Increase in Operating Hours.)

As discussed with Commission Staff, REU would agree with the proposal to merge the Roseville State Power Augmentation Power Site certification (21-TPG-01) into the Roseville Energy Park (03-AFC-1) certification.

The merged projects already operate under a consolidated Title V Permit to Operate. No changes to any Conditions of Certification are required. The merged projects will file a single, consolidated Annual Compliance Report (“ACR”) on the REP annual reporting date each July, eliminating duplicative reporting requirements. Finally, with the merger, the Commission should confirm that the conditions set forth in the emergency approval have been terminated, that the

original expiration of the temporary license on September 8, 2026 is no longer applicable and that the 21-TPG-01 docket is closed.

### 1.1. Project Overview: Purpose of this Petition

REU is filing this Petition for Amendment. The procedural history is instructive:

- On July 30, 2021, Governor Newsom issued a Proclamation of a State of Emergency for California because of sudden and severe energy shortages resulting from extreme drought, wildfires, and record-breaking heat events throughout the Western United States.
- To take immediate action to reduce the strain on energy infrastructure and increase energy capacity, the Governor authorized the CEC to license new emergency and temporary power generators of 10 MW or more that the CEC determines will deliver net peak energy before October 31, 2021.
- The CEC then issued Order number 21-0817-2 establishing a self-certification process for licensing new emergency and temporary power generators.
- On September 2, 2021, REU filed a self-certification application with the CEC requesting a license to temporarily host and operate two 33.6 MW GE TM2500-G4 gas turbine package units to be located near the south-eastern corner of the REP site. On September 8, 2021, the CEC granted a license to operate the RPEAK emergency and temporary power generators.
- Subsequently, on September 13, 2021 the PCAPCD issued an Authority to Construct and Temporary Permits to Operate #AC-REPR-21C and #AC-REPR-21D which were renewed in 2022 and then replaced with Operating Permit #REPR-20-03 and #REPR-20-04 on October 1, 2023 and renewed annually thereafter.
- The two TM2500 units commenced commercial operation in September 2021.
- In November 2024, REU took ownership of the turbines and these units are no longer restricted to running exclusively during declared emergency conditions. A Title V Operating Permit was provided to the Staff by PCAPCD on August 15, 2023. The current PCAPCD Operating Permits were issued on October 7, 2025 and reflect a 2,200 operating hour limitation for each simple cycle turbine. The PCAPCD approvals are included for convenience as Attachment A hereto.
- REU now proposes to modify the existing Roseville Energy Park License #03-AFC-1 to include the two RPEAK TM2500 G4 turbines and to close temporary license #21-TPG-01, which expires September 8, 2026.

The modification will not result in an increase to the REP Facility-wide emission limits. In addition, REU requests that the two 33.6 MW turbines be referred to as the “Roseville Peakers (RPEAK),” and no longer be called the “Roseville State Power Augmentation Power Site,” consistent with REU’s ownership of the former CDWR turbines. (TN # 260105.)

## 1.2. Information Requirements for Post-Certification Project Changes

This Petition is being submitted in accordance with CCR Title 20, Public Utilities and Energy. Section 1769(a)(1) of this Title provides the requirements for Post Certification Petitions for Changes in Project Design, Operation or Performance and Amendments to the Commission Decision.

## 2. Description of the Project Change

### 2.1. Section 1769 (A)(1)(A): A Description Of The Proposed Change, Including New Language For Any Conditions Of Certification That Will Be Affected.

REU is proposing to amend the Roseville Energy Park license (#03-AFC-1) to include the RPEAK TM2500 G4 turbines and to close the Roseville State Power Augmentation Power Site docket (#21-TPG-01), affirming the ability of the peakers to operate without any term limitations, effectively removing the original expiration of the temporary license on September 8, 2026. Closing the emergency docket does not require any amendments to any Conditions of Certification.

All of Roseville's generation capacity is either used to meet local demand or offered at market rates to other California utilities as conforming Resource Adequacy ("RA") under CAISO or the Balancing Authority of Northern California ("BANC"), as applicable. The Roseville Energy Park and RPEAK units are critical for ensuring reliable electricity supply to Roseville customers and for supporting grid operations throughout the BANC and CAISO systems. On November 1, 2024, REU took ownership of the turbines. RPEAK is no longer restricted to running exclusively during declared emergency conditions.

This petition for amendment seeking to merge RPEAK into the REP certification effectively represents a change in the listed REP project equipment, and REU does not propose any change to either the REP or RPEAK project design, operation or performance requirements. No Conditions of Certification will be affected by merging of RPEAK into the REP license.

Amendment of the REP license for the project to include the RPEAK units will streamline reporting obligations and eliminate duplicative air quality and periodic reporting currently conducted under the separate REP and RPEAK licenses. This petition will therefore result in the following periodic and air quality reporting to include information for the RPEAK turbines:

1. Annual Compliance Report (REP Condition of Certification COM-7, with other REP Conditions of Certification adding to the information annually reported)
2. Quarterly Air Quality Report (REP Condition of Certification AQ-SC6, with other air quality conditions adding information be reported on a quarterly basis)

Additionally, REU is in the process of reviewing and if necessary as a result of the

merger, updating the numerous REP operational plans where required.

## **2.2. Section 1769 (A)(1)(B): A Discussion Of The Necessity For The Proposed Change And An Explanation Of Why The Change Should Be Permitted.**

The change should be permitted as the proposed amendment will allow the RPEAK turbines to continue to provide critically needed grid support and reliability. The proposed modifications respond to the need for reliable, fast-starting energy to support California renewable energy integration, climate goals, and reliability needs. Additionally, as the RPEAK turbines are highly efficient and employ current emissions control technologies, they will be available to operate in place of less efficient, higher polluting units in the state. The co-location of REP and RPEAK takes advantage of existing infrastructure both within the site and grid infrastructure in the vicinity. The proposed amendment will thus serve critical reliability needs, assist renewable integration, and will provide local resource adequacy capacity in the BANC and the CAISO balancing authorities.

## **2.3. Section 1769(A)(1)(C): A Description Of Any New Information Or Change In Circumstances That Necessitated The Change.**

Roseville was able to acquire ownership of the RPEAK from CDWR in late 2024. (TN # 260105, TN #264839.) The proposed modifications allow Roseville to optimize its energy portfolio by maximizing the benefits afforded by the larger combined cycle REP and the smaller, quick starting RPEAK turbines.

## **2.4. Section 1769(A)(1)(D): An Analysis Of The Effects That The Proposed Change May Have On The Environment And Proposed Measures To Mitigate Any Significant Environmental Effects.**

The merger of the two certification is administrative in nature. There are no potentially significant environmental effects associated with this proposed administrative change.

## **2.5. Section 1769(A)(1)(E): An Analysis Of How The Proposed Change Would Affect The Project's Compliance With Applicable Laws, Ordinances, Regulations, And Standards.**

The proposed Modifications will not impact REU's ability to comply with applicable LORS.

**2.6. Section 1769(A)(1)(F): A Discussion Of How The Proposed Change Would Affect The Public.**

The proposed modifications will not adversely affect the public. The proposed changes do not result in any significant environmental impacts and the project will remain in compliance with applicable laws, ordinances, regulations, and standards.

**2.7. Section 1769(A)(1)(G): A List Of Current Assessor's Parcel Numbers And Owners' Names And Addresses For All Parcels Within 500 Feet Of Any Affected Project Linears And 1000 Feet Of The Project Site.**

Consistent with privacy and security considerations, the Project Owner will provide a list of neighboring property owners directly to the Compliance Project Manager (“CPM”).

**2.8. Section 1769(A)(1)(H): Discussion Of The Potential Effect On Nearby Property Owners, Residents, And The Public.**

The proposed changes will have no significant environmental effects and will be in compliance with applicable LORS. Therefore, the proposed changes will have no impact on nearby property owners, residents, or the public.

**2.9. Section 1769(A)(1)(I): A discussion of any exemptions from the California Environmental Quality Act, commencing with section 21000 of the Public Resources Code, that the project owner believes may apply to approval of the proposed change.**

Section 1769(a)(1)(I) requires a discussion of any exemptions from the California Environmental Quality Act. The merger of the two Certifications will not result in any changes to the operations of these permitted facilities and thus will not result in any direct or reasonably foreseeable indirect physical change in the environment. The merger is administrative in nature.

The CEC’s power plant siting process is a certified state regulatory program under the California Environmental Quality Act. (Pub. Resources Code, § 21080.5; 14 C.C.R. §§ 15250-15253.) As a certified state regulatory program, the Commission’s approvals are exempt from the procedural elements of CEQA, though it must adhere to the substantive requirements of CEQA. The CEC’s detailed certification process is commonly described as “CEQA-equivalent.”

CEQA defines a “Project” in pertinent part as “...an activity which may cause either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment.” (Pub. Resources Code § 21065.) This administrative action (combining two certifications) will not result in any changes to the “design, operation, or performance requirements,” of either project and thus is not a CEQA “Project.”



This Petition presents an administrative change, which are categorically exempt from CEQA pursuant to Section 15061(b)(3), the “Common Sense Exemption.” This exemption provides that “[w]here it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.” (14 CCR § 15061(b)(3).) In this case, there is no possibility that the proposed change may have a significant effect on the environment. The current operations of the Project are not a new CEQA “Project,” but are part of the existing environmental baseline.

Once a project is approved, CEQA does not require that it be analyzed anew every time an action is required to implement the project. Specifically, where an Environmental Impact Report (“EIR”), or in this case the CEC’s CEQA-equivalent certification, has been prepared for a project, CEQA expressly prohibits agencies from requiring a subsequent or supplemental EIR, except in specified circumstances, e.g., where the project will have more severe impacts as a result of substantial changes to the project or the circumstances under which it is undertaken. (14 CCR § 15162). As discussed herein, the administrative change of this merger does not trigger any such requirement. The proposed project will not result in any changes. Therefore, the proposed modifications are categorically exempt from CEQA pursuant to the “Common Sense Exemption.”

### **Conclusions**

REU appreciates the Commission approval of this Petition for Amendment to make these changes. This petition presents an administrative action (combining two certifications) and will not result in any changes to either the REP or RPEAK project “design, operation, or performance requirements.”

As discussed with Commission Staff, REU would agree with the proposal to merge the Roseville State Power Augmentation Power Site certification (21-TPG-01) into the Roseville Energy Park (03-AFC-1) certification. The merged projects already operate under a consolidated Title V Permit to Operate. No changes to any Conditions of Certification are required. The merged projects will file a single, consolidated ACR on the REP reporting each July, eliminating duplicative reporting requirements. Finally, with the merger, the Commission should confirm that the conditions set forth in the emergency approval have been terminated, that the original expiration of the temporary license on September 8, 2026 is no longer applicable and that the 21-TPG-01 docket is closed.

**ATTACHMENT A**

**PLACER COUNTY AIR POLLUTION CONTROL DISTRICT  
APPROVALS**



Placer County Air Pollution Control District  
110 Maple Street  
Auburn, California 95603  
(530) 745-2330 - Fax (530) 745-2373

## PERMIT TO OPERATE

**ISSUED TO:**

ROSEVILLE ENERGY PARK  
5120 PHILLIP RD  
ROSEVILLE, CA 95747

**PERMIT NUMBER:** REPR-20-03

**FACILITY LOCATION:**

ROSEVILLE ENERGY PARK  
5120 PHILLIP RD  
ROSEVILLE, CA 95747

**VALID FROM:**

10/1/2025 - 9/30/2026

Erik C. White  
Air Pollution Control Officer

10/07/2025  
Issue Date

**PROCESS DESCRIPTION:** COMBUSTION TURBINE GENERATOR #5

### EQUIPMENT

No.	Equipment	Rating
1	Combustion Turbine Generator (CTG) #5, Manufacturer: General Electric, Model: TM2500-G4; Serial # 679-341, Natural Gas Fired, Simple Cycle with Single Annular Combustors with Water Injection, Heat Input Rating (HHV) 366.1 MMBtu/hr; Nominal MW Rating: 33.6 MW	366.1 MMBtu/hr
2	Selective Catalytic Reduction (SCR) with Integrated Ammonia Injection System, Manufacturer: Braden-Americas, Inc., Serial Number: 25101	--
3	Carbon Monoxide (CO) Oxidation Catalyst, Manufacturer: Braden-Americas, Inc., Serial Number: 146 to 92	--
4	Continuous Emissions Monitoring System (CEMS)	--

**TOTAL RATINGS** – MMBtu/hr- 366.1.

## **OPERATING CONDITIONS**

1. The CTG exhaust stack shall be designed and maintained such that it includes permanent provisions, consistent with the United States Environmental Protection Agency's (U.S. EPA) Method 1 design requirements, to allow the adequate collection of stack gas samples. Access ladders and/or stairs and platforms shall allow easy access to the sampling locations.
2. Roseville Electric shall fire the CTG exclusively on pipeline-quality natural gas with a maximum sulfur content of 0.5 grains per 100 standard cubic feet. To demonstrate compliance with this limit, the operator of the CTG shall possess a current, valid purchase contract, tariff sheet, or transportation contract for the fuel, specifying the total sulfur content. PG&E monthly sulfur data may be used provided that such data can be demonstrated to be representative of the gas delivered to Roseville Energy Park. Alternatively, the operator may choose to sample and analyze the gas from each supply source at least monthly to determine the sulfur content of the gas.
3. Roseville Electric shall not operate the unit such that the heat input rate to the CTG exceeds 366.1 MMBtu (HHV) per hour.
4. Roseville Electric shall not operate the unit such that the heat input to the CTG exceeds 201,355 MMBtu (HHV) per calendar quarter, not including heat input attributable to startup and shutdown periods as defined in conditions 10 and 11.
5. Roseville Electric shall not operate the unit such that the heat input to the CTG exceeds 805,420 MMBtu (HHV) per calendar year, not including heat input attributable to startup and shutdown periods as defined in conditions 10 and 11.
6. Roseville Electric shall not operate the CTG such that the hours of operation exceed 550 hours per calendar quarter.
7. Roseville Electric shall not operate the CTG such that the hours of operation exceed 2,200 hours per year.
8. Roseville Electric shall ensure that the CTG is abated by the properly operated and properly maintained SCR system and carbon monoxide oxidation catalyst whenever fuel is combusted at the source and that the corresponding SCR catalyst bed has reached its minimum operating temperature.
9. Roseville Electric shall install, maintain, and operate continuous plant monitors and a continuous emissions monitoring system (CEMS) during all hours of operation, including gas turbine startup and shutdown periods. The instruments shall operate at all times of operation of the CTG including start-up, shutdown, upset, and malfunction, except as allowed by District Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance. If necessary to comply with this requirement, Roseville Electric shall install dual-span monitors. The type, specifications, and location of these monitors shall be subject to District review and approval. The following parameters shall be monitored under this section:
  - a. Firing hours, turbine water injection rates, and fuel flow rates for the CTG;

- b. Oxygen concentration, nitrogen oxides concentration, and carbon monoxide concentration at the exhaust point of the CTG;
- c. Ammonia (NH<sub>3</sub>) injection rate at the SCR system.

Roseville Electric shall record the above parameters at least every 15 minutes (excluding normal calibration periods and when the monitored source is not in operation) and shall summarize the above parameters for each clock hour. Roseville Electric shall use the parameters measured above and District approved calculation methods to calculate the following CTG parameters

- d. Heat input rate;
- e. The concentration of NO<sub>x</sub> and CO, corrected to 15% O<sub>2</sub> (corrected), and the mass emission rates of NO<sub>x</sub> and CO for the CTG.

10. Startup is defined as the lesser of the following:

- a. The period of time from CTG fuel flow initiation until the CTG achieves compliance with the NO<sub>x</sub> and CO emission concentration limits in Condition 34 for two consecutive minutes; or,
- b. The first 30 minutes of continuous fuel flow to the CTG after fuel flow is initiated.

11. Shutdown is defined as the lesser of the following:

- a. The period of time beginning from non-compliance with the NO<sub>x</sub> or CO concentration emission limits, associated with the initiation of the CTG shutdown sequence, until termination of fuel flow to the CTG; or,
- b. The first 15-minute period immediately prior to termination of fuel flow to the CTG.

12. Roseville Electric shall limit the total CTG startup events to no more than 6 startups per day, 190 startups per calendar quarter, and 760 startups per calendar year.

13. Roseville Electric shall limit the total CTG shutdown events to no more than 6 shutdowns per day, 190 shutdowns per calendar quarter, and 760 shutdowns per calendar year.

14. Roseville Electric shall ensure that Roseville Energy Park complies with the requirements to hold SO<sub>2</sub> allowances in 40 CFR 72.9(c)(1).

### **REPORTING AND RECORDKEEPING**

15. 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.

16. For each calendar day, Roseville Electric shall calculate and record the total firing hours, the average hourly fuel flow rates, turbine water injection rates, CTG power production rates, and regulated pollutant concentration and emission rates. The data should be recorded as specified below:

- a. The average heat input rate for every clock hour that the turbine is in operation;
  - b. The average NO<sub>x</sub> mass emission rate (as NO<sub>2</sub>), CO mass emission rate, and corrected NO<sub>x</sub> and CO emission concentrations, for every clock hour;
  - c. For each calendar day, the average hourly heat input rates, corrected NO<sub>x</sub> and CO emission concentrations, and NO<sub>x</sub> and CO mass emission rates of the CTG;
  - d. For each calendar month, the cumulative total NO<sub>x</sub> mass emissions and cumulative total CO mass emissions, for each calendar quarter and the previous consecutive twelve-month period for all CTGs and HRSG duct burners operated at Roseville Energy Park.
17. Roseville Electric shall calculate and record, on a daily basis, the volatile organic compound (VOC) mass emissions, fine particulate matter (PM<sub>10</sub>) mass emissions (including condensable particulate matter), and sulfur oxides (SO<sub>x</sub>) mass emissions (as SO<sub>2</sub>) from the CTG. Roseville Electric shall use the actual heat input rates measured pursuant to Condition 9, actual gas turbine start-up times, actual gas turbine shutdown times, and District-approved emission factors developed pursuant to source testing under Condition 30 to calculate these emissions. Roseville Electric shall present the calculated emissions in the following format:
  - a. For each calendar day, VOC, PM<sub>10</sub>, and SO<sub>x</sub> emissions, summarized for each CTG;
  - b. On a monthly basis, the cumulative total VOC, PM<sub>10</sub>, and SO<sub>x</sub> mass emissions, for each calendar quarter and calendar year for all CTGs and HRSG duct burners operated at Roseville Energy Park.
18. Roseville Electric shall ensure compliance with the continuous emission monitoring requirements of 40 CFR Part 60 and 40 CFR Part 75.
19. Roseville Electric shall submit all reports to the District (including, but not limited to quarterly CEM reports, excess emissions reports, equipment upset/breakdown reports, etc.) as required by District Rules and Regulations.
20. 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 U.S. EPA.
21. Roseville Electric shall notify the District of any violations of these permit conditions. Notification shall be submitted in a timely manner, in accordance with all applicable District Rules and Regulations. Notwithstanding the notification and reporting requirements given in any District Rule or Regulation, Roseville Electric shall submit written notification (email or facsimile is acceptable) to the District within 96 hours of the violation of any permit condition.
22. 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.

23. 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.
24. 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 permitted, and the methods utilized to restore normal operations.
25. Calibration Gas Audits (CGAs) of the continuous emissions monitors shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with U.S. 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.
26. Roseville Electric shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emissions monitoring equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F.
27. Roseville Electric shall submit a written report to the District 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.
28. Roseville Electric shall provide the District with a written emission statement showing actual emissions of VOCs and NO<sub>x</sub>. Pursuant to District Rule 503, Roseville Electric shall submit this emission statement on a form or in a format specified by the District. The statement shall contain the following information:
  - a. Actual emissions of VOCs and NO<sub>x</sub>, in tons per year, for the calendar year prior to the preparation of the emission statement;
  - b. Information regarding seasonal or diurnal peaks in the emission of affected pollutants;
  - c. 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.
29. Roseville Electric shall maintain an Operating Compliance Plan for the new CTG 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.

- a. 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.
- b. The plan shall include the frequency and methods of calibrating the process monitoring devices.
- c. The plan shall specify for each emission control device:
  - i. Operation and maintenance procedures that will demonstrate continuous operation of the emission control device during emission producing operations; and,
  - ii. Records that must be kept to document the performance of required periodic maintenance procedures.
- d. 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.
- e. The plan shall be submitted to the District no later than 30 days after startup of the CTG. The plan must be implemented upon approval by the District Air Pollution Control Officer.
- f. 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.

### **PERFORMANCE TESTING**

30. On an annual basis, and within fourteen (14) months of the previous source test, Roseville Electric shall conduct District approved source testing on the CTG to determine compliance with the emission limitations specified in Conditions 34. The source tests shall determine concentrations and mass emissions of NO<sub>x</sub>, CO, VOC, and NH<sub>3</sub>. Fuel-based emission factors (lbs/MMBtu) for VOCs, SO<sub>x</sub> (as SO<sub>2</sub>) and PM<sub>10</sub> shall be established using the annual source test data. The source tests shall be performed while the CTG is operating at peak load firing conditions (100% load plus or minus 25%). The source tests shall include a minimum of three compliance runs, with a minimum run time of 30 minutes per run.
31. Roseville Electric shall test for (as a minimum): moisture content, stack gas flow rate, oxygen concentration, NO<sub>x</sub> concentration and mass emissions (as NO<sub>2</sub>), CO concentration and mass emissions, VOC concentration and mass emissions, fuel sulfur content and from it, SO<sub>x</sub> mass emissions (as SO<sub>2</sub>), and total fine particulate matter emissions (PM<sub>10</sub>), including condensable particulate matter. All testing shall be performed using U.S. EPA



approved test methods. Alternative test methods can be used with explicit approval of the District. Roseville Electric shall submit the source test results to the District within 60 days of conducting the tests.

32. Before the execution of the source tests, Roseville Electric shall submit to the District a source test protocol detailing the proposed scope and source test methods. The protocol shall be submitted to the District no later than thirty (30) days prior to the scheduled test date. The District will notify Roseville Electric of any necessary modifications to the plan; otherwise, the plan shall be deemed approved. Roseville Electric shall incorporate the District's comments into the test plan.
33. On an annual basis, Roseville Electric shall verify the accuracy of the CEMS by conducting a relative accuracy test audit (RATA). The RATA shall satisfy the applicable performance specification requirements in Appendix B of 40 CFR Part 60 as well as the quality assurance and quality control procedures of 40 CFR Part 75. Roseville Electric shall submit the RATA results to the District within 60 days of conducting the audit.

### **EMISSION LIMITATIONS**

34. Roseville Electric shall ensure that the CTG complies with emission limits established in (a) through (g) below. The limits in (a) through (e) do not apply during a CTG startup or shutdown, as defined in Conditions 10 and 11, respectively:
  - a. NO<sub>x</sub> mass emissions (calculated as NO<sub>2</sub>) at the exhaust of the CTG shall not exceed 2.71 pounds per hour;
  - b. The NO<sub>x</sub> emission concentration at the exhaust of the CTG shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O<sub>2</sub>, averaged over any 1-hour period;
  - c. CO mass emissions at the exhaust of the CTG shall not exceed 2.64 pounds per hour;
  - d. The CO emission concentration at the exhaust of the CTG shall not exceed 4.0 ppmv, on a dry basis, corrected to 15% O<sub>2</sub> averaged over any 1-hour period;
  - e. VOC mass emissions (calculated as CH<sub>4</sub>) at the exhaust of the CTG shall not exceed 0.66 pounds per hour;
  - f. PM<sub>10</sub> mass emissions at the exhaust of the CTG shall not exceed 4.0 pounds per hour;
  - g. SO<sub>x</sub> mass emissions (calculated as SO<sub>2</sub>) at the exhaust of the CTG shall not exceed 0.40 pounds per hour.
35. Roseville Electric shall ensure that the mass emissions at the exhaust of the CTG during startup and shutdown do not exceed the limits established below:
  - a. NO<sub>x</sub> (calculated as NO<sub>2</sub>):
    - i. 3.10 pounds per startup;
    - ii. 3.40 pounds per shutdown;

- iii. 6.50 pounds during any hour with startup and/or shutdown.
  - b. CO:
    - i. 19.40 pounds per startup;
    - ii. 21.60 pounds per shutdown;
    - iii. 41.00 pounds during any hour with startup and/or shutdown.
  - c. VOC (calculated as CH<sub>4</sub>):
    - i. 0.80 pounds of VOC per startup;
    - ii. 0.90 pounds of VOC per shutdown;
    - iii. 1.70 pounds of VOC during any hour with startup and/or shutdown.
- 36. Roseville Electric shall ensure that the quarterly emissions from the CTG, including emissions generated during gas turbine startups, shutdowns, and malfunctions, do not exceed the limits established in (a) through (e) below. Compliance with mass emissions of VOCs, PM<sub>10</sub>, and SO<sub>x</sub> shall be demonstrated by using the heat input-based emission factors established in Condition 30 multiplied by the CTG's quarterly fuel consumption or heat input:
  - a. NO<sub>x</sub> mass emissions (calculated as NO<sub>2</sub>) at the exhaust of the CTG shall not exceed 2,726 pounds per quarter;
  - b. CO mass emissions at the exhaust of the CTG shall not exceed 9,242 pounds per quarter;
  - c. VOC mass emissions (calculated as CH<sub>4</sub>) at the exhaust of the CTG shall not exceed 686 pounds per quarter;
  - d. PM<sub>10</sub> mass emissions at the exhaust of the CTG shall not exceed 2,770 pounds per quarter;
  - e. SO<sub>x</sub> mass emissions (calculated as SO<sub>2</sub>) at the exhaust of the CTG shall not exceed 277 pounds per quarter.
- 37. Roseville Electric shall ensure that the annual emissions from the CTG, including emissions generated during gas turbine startups, shutdowns, and malfunctions, do not exceed the limits established in (a) through (e) below. Compliance with mass emissions of VOCs, PM<sub>10</sub>, and SO<sub>x</sub> shall be demonstrated by using the heat input-based emission factors established in Condition 30 multiplied by the CTG's annual fuel consumption or heat input:
  - a. NO<sub>x</sub> mass emissions (calculated as NO<sub>2</sub>) at the exhaust of the CTG shall not exceed 5.45 tons per year;
  - b. CO mass emissions at the exhaust of the CTG shall not exceed 18.48 tons per year;
  - c. VOC mass emissions (calculated as CH<sub>4</sub>) at the exhaust of the CTG shall not exceed 1.37 tons per year;
  - d. PM<sub>10</sub> mass emissions at the exhaust of the CTG shall not exceed 5.54 tons per year;

- e. SOx mass emissions (calculated as SO<sub>2</sub>) at the exhaust of the CTG shall not exceed 0.55 tons per year.

38. Roseville Electric shall ensure that the quarterly emissions from all permitted stationary sources, including all four CTGs, all duct burners from the two HRSGs, and the water cooling towers, do not exceed the limits established in **Table 1** below. Compliance with mass emissions of VOCs, PM<sub>10</sub>, and SOx shall be demonstrated by using the heat input-based emission factors established in Condition 30 multiplied by the applicable fuel consumption or heat input. (Basis: Rule 502, Section 303 Offset Requirements)

**Table 1 – Roseville Energy Park Quarterly and Annual Emission Limits**

Pollutant	Quarter 1 (lbs)	Quarter 2 (lbs)	Quarter 3 (lbs)	Quarter 4 (lbs)	Annual (tons/year)
NOx	15,546	13,412	17,646	15,572	31.09
CO	27,121	33,872	28,515	30,202	59.86
VOCs	5,832	7,455	6,672	6,890	13.42
PM <sub>10</sub>	17,673	15,513	19,168	19,158	35.76
SOx	3,400	2,893	3,709	3,663	6.83

39. No emissions are permitted, from any source, which are a nuisance per District Rule 205, Nuisance.
40. 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.
41. Particulate matter emissions shall not exceed 0.1 grains per cubic foot of gas calculated at 12 percent CO at standard conditions per District Rule 207, Particulate Matter.
42. Sulfur compound emissions calculated as SO<sub>2</sub> shall not exceed 0.2 percent by volume per District Rule 210, Specific Contaminants.
43. Ammonia emission concentrations at the exhaust of the CTG shall not exceed 10.0 ppmv, on a dry basis, corrected to 15% O<sub>2</sub>.
44. Compliance with the ammonia concentration limit in Condition 43 shall be demonstrated by using the following calculation procedure:

$$\text{Ammonia slip ppmv @ 15\% O}_2 = ((a - (b \times c / 1,000,000)) \times 1,000,000 / b) \times d.$$

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% O<sub>2</sub> across catalyst,

d = correction factor

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

45. The SCR system's catalyst shall be replaced, repaired, or otherwise reconditioned within 24 months of the ammonia slip exceeding 7 ppm @ 15% O<sub>2</sub>, as determined by an annual source test.

### **GENERAL CONDITIONS**

46. Authorization to operate the equipment listed and as prescribed in the approved plans and specifications is hereby granted, subject to the specified permit conditions. The operation of listed equipment shall be conducted in compliance with all data and specifications submitted with the application under which the initial permit was 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's Air Pollution Control Officer. (Basis: Rule 501)
47. This permit shall be maintained on the premises of the subject equipment. (Basis: Rule 501)
48. 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. (Basis: Rule 402)
49. In the event of any violation of the District Rules and Regulations, Roseville Electric shall take action to end such violation. (Basis: Rule 502)
50. Roseville Electric shall notify the District within two hours of any upset conditions, breakdown or scheduled maintenance which cause emissions in excess of limits established by District Rules and Regulations. (Basis: Rule 404)
51. Any alteration of the subject equipment, including a change in the method of operation, shall be reported to the District. Such alterations may require an Authority to Construct Permit. (Basis: Rule 501)
52. Exceeding any of the limiting conditions is prohibited without prior application for, and the subsequent granting of a permit modification. (Basis: Rule 501)
53. In the event of a change of ownership, an application must be submitted to the District. Upon any change in control or ownership of facilities constructed, operated, or modified under authority of this permit, the requirements contained in this Permit to Operate shall be binding on all subsequent owners and operators. (Basis: Rule 501)
54. Compliance of the permitted facility is required with the provisions of the AB2588 "Air Toxics 'Hot Spots' Information and Assessment Act" of 1987. (Basis: Health and Safety Code Sections 44300 et seq.)

55. Performance Test Requirements: If the District finds that additional performance tests are required to determine compliance with District Rules and Regulations and/or conditions of this Permit to Operate, reasonable written notice shall be provided to Roseville Electric. The performance tests shall be subject to the following restrictions (Basis: Rule 501):
- a. At least thirty (30) days prior to the actual testing, a written test plan shall be submitted to the District detailing the sampling methods, analytical methods or detection principles to be used. The prior written approval of the District is required for the use of alternate test methods.
  - b. 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/or state or federal regulations and the limiting conditions of this permit.
  - c. 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. 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 condensable particulate matter (e.g. Method 5 modified to include impinger catch).
  - d. A report of the testing shall be submitted to the District no later than sixty (60) days after the source test is performed.
56. The applicant/Permittee has an obligation to defend and indemnify the District against third party challenges. (Basis: Rule 411)



Placer County Air Pollution Control District  
110 Maple Street  
Auburn, California 95603  
(530) 745-2330 - Fax (530) 745-2373

## PERMIT TO OPERATE

**ISSUED TO:**

ROSEVILLE ENERGY PARK  
5120 PHILLIP RD  
ROSEVILLE, CA 95747

**PERMIT NUMBER:** REPR-20-04

**FACILITY LOCATION:**

ROSEVILLE ENERGY PARK  
5120 PHILLIP RD  
ROSEVILLE, CA 95747

**VALID FROM:**

10/1/2025 - 9/30/2026

Erik C. White  
Air Pollution Control Officer

10/07/2025  
Issue Date

**PROCESS DESCRIPTION:** COMBUSTION TURBINE GENERATOR #6

### EQUIPMENT

No.	Equipment	Rating
1	Combustion Turbine Generator (CTG) #6, Manufacturer: General Electric, Model: TM2500-G4; Serial # 679-344, Natural Gas Fired, Simple Cycle with Single Annular Combustors with Water Injection, Heat Input Rating (HHV) 366.1 MMBtu/hr; Nominal MW Rating: 33.6 MW	366.1 MMBtu/hr
2	Selective Catalytic Reduction (SCR) with Integrated Ammonia Injection System, Manufacturer: Braden-Americas, Inc., Serial Number: 25101	--
3	Carbon Monoxide (CO) Oxidation Catalyst, Manufacturer: Braden-Americas, Inc., Serial Number: 146 to 92	--
4	Continuous Emissions Monitoring System (CEMS)	--

**TOTAL RATINGS** – MMBtu/hr- 366.1.

## **OPERATING CONDITIONS**

1. The CTG exhaust stack shall be designed and maintained such that it includes permanent provisions, consistent with the United States Environmental Protection Agency's (U.S. EPA) Method 1 design requirements, to allow the adequate collection of stack gas samples. Access ladders and/or stairs and platforms shall allow easy access to the sampling locations.
2. Roseville Electric shall fire the CTG exclusively on pipeline-quality natural gas with a maximum sulfur content of 0.5 grains per 100 standard cubic feet. To demonstrate compliance with this limit, the operator of the CTG shall possess a current, valid purchase contract, tariff sheet, or transportation contract for the fuel, specifying the total sulfur content. PG&E monthly sulfur data may be used provided that such data can be demonstrated to be representative of the gas delivered to Roseville Energy Park. Alternatively, the operator may choose to sample and analyze the gas from each supply source at least monthly to determine the sulfur content of the gas.
3. Roseville Electric shall not operate the unit such that the heat input rate to the CTG exceeds 366.1 MMBtu (HHV) per hour.
4. Roseville Electric shall not operate the unit such that the heat input to the CTG exceeds 201,355 MMBtu (HHV) per calendar quarter, not including heat input attributable to startup and shutdown periods as defined in conditions 10 and 11.
5. Roseville Electric shall not operate the unit such that the heat input to the CTG exceeds 805,420 MMBtu (HHV) per calendar year, not including heat input attributable to startup and shutdown periods as defined in conditions 10 and 11.
6. Roseville Electric shall not operate the CTG such that the hours of operation exceed 550 hours per calendar quarter.
7. Roseville Electric shall not operate the CTG such that the hours of operation exceed 2,200 hours per year.
8. Roseville Electric shall ensure that the CTG is abated by the properly operated and properly maintained SCR system and carbon monoxide oxidation catalyst whenever fuel is combusted at the source and that the corresponding SCR catalyst bed has reached its minimum operating temperature.
9. Roseville Electric shall install, maintain, and operate continuous plant monitors and a continuous emissions monitoring system (CEMS) during all hours of operation, including gas turbine startup and shutdown periods. The instruments shall operate at all times of operation of the CTG including start-up, shutdown, upset, and malfunction, except as allowed by District Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance. If necessary to comply with this requirement, Roseville Electric shall install dual-span monitors. The type, specifications, and location of these monitors shall be subject to District review and approval. The following parameters shall be monitored under this section:
  - a. Firing hours, turbine water injection rates, and fuel flow rates for the CTG;

- b. Oxygen concentration, nitrogen oxides concentration, and carbon monoxide concentration at the exhaust point of the CTG;
- c. Ammonia (NH<sub>3</sub>) injection rate at the SCR system.

Roseville Electric shall record the above parameters at least every 15 minutes (excluding normal calibration periods and when the monitored source is not in operation) and shall summarize the above parameters for each clock hour. Roseville Electric shall use the parameters measured above and District approved calculation methods to calculate the following CTG parameters

- d. Heat input rate;
- e. The concentration of NO<sub>x</sub> and CO, corrected to 15% O<sub>2</sub> (corrected), and the mass emission rates of NO<sub>x</sub> and CO for the CTG.

10. Startup is defined as the lesser of the following:

- a. The period of time from CTG fuel flow initiation until the CTG achieves compliance with the NO<sub>x</sub> and CO emission concentration limits in Condition 34 for two consecutive minutes; or,
- b. The first 30 minutes of continuous fuel flow to the CTG after fuel flow is initiated.

11. Shutdown is defined as the lesser of the following:

- a. The period of time beginning from non-compliance with the NO<sub>x</sub> or CO concentration emission limits, associated with the initiation of the CTG shutdown sequence, until termination of fuel flow to the CTG; or,
- b. The first 15-minute period immediately prior to termination of fuel flow to the CTG.

12. Roseville Electric shall limit the total CTG startup events to no more than 6 startups per day, 190 startups per calendar quarter, and 760 startups per calendar year.

13. Roseville Electric shall limit the total CTG shutdown events to no more than 6 shutdowns per day, 190 shutdowns per calendar quarter, and 760 shutdowns per calendar year.

14. Roseville Electric shall ensure that Roseville Energy Park complies with the requirements to hold SO<sub>2</sub> allowances in 40 CFR 72.9(c)(1).

### **REPORTING AND RECORDKEEPING**

15. 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.

16. For each calendar day, Roseville Electric shall calculate and record the total firing hours, the average hourly fuel flow rates, turbine water injection rates, CTG power production rates, and regulated pollutant concentration and emission rates. The data should be recorded as specified below:



- a. The average heat input rate for every clock hour that the turbine is in operation;
  - b. The average NO<sub>x</sub> mass emission rate (as NO<sub>2</sub>), CO mass emission rate, and corrected NO<sub>x</sub> and CO emission concentrations, for every clock hour;
  - c. For each calendar day, the average hourly heat input rates, corrected NO<sub>x</sub> and CO emission concentrations, and NO<sub>x</sub> and CO mass emission rates of the CTG;
  - d. For each calendar month, the cumulative total NO<sub>x</sub> mass emissions and cumulative total CO mass emissions, for each calendar quarter and the previous consecutive twelve-month period for all CTGs and HRSG duct burners operated at Roseville Energy Park.
17. Roseville Electric shall calculate and record, on a daily basis, the volatile organic compound (VOC) mass emissions, fine particulate matter (PM<sub>10</sub>) mass emissions (including condensable particulate matter), and sulfur oxides (SO<sub>x</sub>) mass emissions (as SO<sub>2</sub>) from the CTG. Roseville Electric shall use the actual heat input rates measured pursuant to Condition 9, actual gas turbine start-up times, actual gas turbine shutdown times, and District-approved emission factors developed pursuant to source testing under Condition 30 to calculate these emissions. Roseville Electric shall present the calculated emissions in the following format:
  - a. For each calendar day, VOC, PM<sub>10</sub>, and SO<sub>x</sub> emissions, summarized for each CTG;
  - b. On a monthly basis, the cumulative total VOC, PM<sub>10</sub>, and SO<sub>x</sub> mass emissions, for each calendar quarter and calendar year for all CTGs and HRSG duct burners operated at Roseville Energy Park.
18. Roseville Electric shall ensure compliance with the continuous emission monitoring requirements of 40 CFR Part 60 and 40 CFR Part 75.
19. Roseville Electric shall submit all reports to the District (including, but not limited to quarterly CEM reports, excess emissions reports, equipment upset/breakdown reports, etc.) as required by District Rules and Regulations.
20. 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 U.S. EPA.
21. Roseville Electric shall notify the District of any violations of these permit conditions. Notification shall be submitted in a timely manner, in accordance with all applicable District Rules and Regulations. Notwithstanding the notification and reporting requirements given in any District Rule or Regulation, Roseville Electric shall submit written notification (email or facsimile is acceptable) to the District within 96 hours of the violation of any permit condition.
22. 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.

23. 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.
24. 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 permitted, and the methods utilized to restore normal operations.
25. Calibration Gas Audits (CGAs) of the continuous emissions monitors shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with U.S. 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.
26. Roseville Electric shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emissions monitoring equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F.
27. Roseville Electric shall submit a written report to the District 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.
28. Roseville Electric shall provide the District with a written emission statement showing actual emissions of VOCs and NO<sub>x</sub>. Pursuant to District Rule 503, Roseville Electric shall submit this emission statement on a form or in a format specified by the District. The statement shall contain the following information:
  - a. Actual emissions of VOCs and NO<sub>x</sub>, in tons per year, for the calendar year prior to the preparation of the emission statement;
  - b. Information regarding seasonal or diurnal peaks in the emission of affected pollutants;
  - c. 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.
29. Roseville Electric shall maintain an Operating Compliance Plan for the new CTG 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.

- a. 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.
- b. The plan shall include the frequency and methods of calibrating the process monitoring devices.
- c. The plan shall specify for each emission control device:
  - i. Operation and maintenance procedures that will demonstrate continuous operation of the emission control device during emission producing operations; and,
  - ii. Records that must be kept to document the performance of required periodic maintenance procedures.
- d. 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.
- e. The plan shall be submitted to the District no later than 30 days after startup of the CTG. The plan must be implemented upon approval by the District Air Pollution Control Officer.
- f. 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.

### **PERFORMANCE TESTING**

30. On an annual basis, and within fourteen (14) months of the previous source test, Roseville Electric shall conduct District approved source testing on the CTG to determine compliance with the emission limitations specified in Conditions 34. The source tests shall determine concentrations and mass emissions of NO<sub>x</sub>, CO, VOC, and NH<sub>3</sub>. Fuel-based emission factors (lbs/MMBtu) for VOCs, SO<sub>x</sub> (as SO<sub>2</sub>) and PM<sub>10</sub> shall be established using the annual source test data. The source tests shall be performed while the CTG is operating at peak load firing conditions (100% load plus or minus 25%). The source tests shall include a minimum of three compliance runs, with a minimum run time of 30 minutes per run.
31. Roseville Electric shall test for (as a minimum): moisture content, stack gas flow rate, oxygen concentration, NO<sub>x</sub> concentration and mass emissions (as NO<sub>2</sub>), CO concentration and mass emissions, VOC concentration and mass emissions, fuel sulfur content and from it, SO<sub>x</sub> mass emissions (as SO<sub>2</sub>), and total fine particulate matter emissions (PM<sub>10</sub>), including condensable particulate matter. All testing shall be performed using U.S. EPA

approved test methods. Alternative test methods can be used with explicit approval of the District. Roseville Electric shall submit the source test results to the District within 60 days of conducting the tests.

32. Before the execution of the source tests, Roseville Electric shall submit to the District a source test protocol detailing the proposed scope and source test methods. The protocol shall be submitted to the District no later than thirty (30) days prior to the scheduled test date. The District will notify Roseville Electric of any necessary modifications to the plan; otherwise, the plan shall be deemed approved. Roseville Electric shall incorporate the District's comments into the test plan.
33. On an annual basis, Roseville Electric shall verify the accuracy of the CEMS by conducting a relative accuracy test audit (RATA). The RATA shall satisfy the applicable performance specification requirements in Appendix B of 40 CFR Part 60 as well as the quality assurance and quality control procedures of 40 CFR Part 75. Roseville Electric shall submit the RATA results to the District within 60 days of conducting the audit.

### **EMISSION LIMITATIONS**

34. Roseville Electric shall ensure that the CTG complies with emission limits established in (a) through (g) below. The limits in (a) through (e) do not apply during a CTG startup or shutdown, as defined in Conditions 10 and 11, respectively:
  - a. NO<sub>x</sub> mass emissions (calculated as NO<sub>2</sub>) at the exhaust of the CTG shall not exceed 2.71 pounds per hour;
  - b. The NO<sub>x</sub> emission concentration at the exhaust of the CTG shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O<sub>2</sub>, averaged over any 1-hour period;
  - c. CO mass emissions at the exhaust of the CTG shall not exceed 2.64 pounds per hour;
  - d. The CO emission concentration at the exhaust of the CTG shall not exceed 4.0 ppmv, on a dry basis, corrected to 15% O<sub>2</sub> averaged over any 1-hour period;
  - e. VOC mass emissions (calculated as CH<sub>4</sub>) at the exhaust of the CTG shall not exceed 0.66 pounds per hour;
  - f. PM<sub>10</sub> mass emissions at the exhaust of the CTG shall not exceed 4.0 pounds per hour;
  - g. SO<sub>x</sub> mass emissions (calculated as SO<sub>2</sub>) at the exhaust of the CTG shall not exceed 0.40 pounds per hour.
35. Roseville Electric shall ensure that the mass emissions at the exhaust of the CTG during startup and shutdown do not exceed the limits established below:
  - a. NO<sub>x</sub> (calculated as NO<sub>2</sub>):
    - i. 3.10 pounds per startup;
    - ii. 3.40 pounds per shutdown;

- iii. 6.50 pounds during any hour with startup and/or shutdown.
  - b. CO:
    - i. 19.40 pounds per startup;
    - ii. 21.60 pounds per shutdown;
    - iii. 41.00 pounds during any hour with startup and/or shutdown.
  - c. VOC (calculated as CH<sub>4</sub>):
    - i. 0.80 pounds of VOC per startup;
    - ii. 0.90 pounds of VOC per shutdown;
    - iii. 1.70 pounds of VOC during any hour with startup and/or shutdown.
- 36. Roseville Electric shall ensure that the quarterly emissions from the CTG, including emissions generated during gas turbine startups, shutdowns, and malfunctions, do not exceed the limits established in (a) through (e) below. Compliance with mass emissions of VOCs, PM<sub>10</sub>, and SO<sub>x</sub> shall be demonstrated by using the heat input-based emission factors established in Condition 30 multiplied by the CTG's quarterly fuel consumption or heat input:
  - a. NO<sub>x</sub> mass emissions (calculated as NO<sub>2</sub>) at the exhaust of the CTG shall not exceed 2,726 pounds per quarter;
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  - e. SO<sub>x</sub> mass emissions (calculated as SO<sub>2</sub>) at the exhaust of the CTG shall not exceed 277 pounds per quarter.
- 37. Roseville Electric shall ensure that the annual emissions from the CTG, including emissions generated during gas turbine startups, shutdowns, and malfunctions, do not exceed the limits established in (a) through (e) below. Compliance with mass emissions of VOCs, PM<sub>10</sub>, and SO<sub>x</sub> shall be demonstrated by using the heat input-based emission factors established in Condition 30 multiplied by the CTG's annual fuel consumption or heat input:
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  - b. CO mass emissions at the exhaust of the CTG shall not exceed 18.48 tons per year;
  - c. VOC mass emissions (calculated as CH<sub>4</sub>) at the exhaust of the CTG shall not exceed 1.37 tons per year;
  - d. PM<sub>10</sub> mass emissions at the exhaust of the CTG shall not exceed 5.54 tons per year;

- e. SOx mass emissions (calculated as SO<sub>2</sub>) at the exhaust of the CTG shall not exceed 0.55 tons per year.

38. Roseville Electric shall ensure that the quarterly emissions from all permitted stationary sources, including all four CTGs, all duct burners from the two HRSGs, and the water cooling towers, do not exceed the limits established in **Table 1** below. Compliance with mass emissions of VOCs, PM<sub>10</sub>, and SOx shall be demonstrated by using the heat input-based emission factors established in Condition 30 multiplied by the applicable fuel consumption or heat input. (Basis: Rule 502, Section 303 Offset Requirements)

**Table 1 – Roseville Energy Park Quarterly and Annual Emission Limits**

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40. 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.
41. Particulate matter emissions shall not exceed 0.1 grains per cubic foot of gas calculated at 12 percent CO at standard conditions per District Rule 207, Particulate Matter.
42. Sulfur compound emissions calculated as SO<sub>2</sub> shall not exceed 0.2 percent by volume per District Rule 210, Specific Contaminants.
43. Ammonia emission concentrations at the exhaust of the CTG shall not exceed 10.0 ppmv, on a dry basis, corrected to 15% O<sub>2</sub>.
44. Compliance with the ammonia concentration limit in Condition 43 shall be demonstrated by using the following calculation procedure:

$$\text{Ammonia slip ppmv @ 15\% O}_2 = ((a - (b \times c / 1,000,000)) \times 1,000,000 / b) \times d.$$

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% O<sub>2</sub> across catalyst,

d = correction factor

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

45. The SCR system's catalyst shall be replaced, repaired, or otherwise reconditioned within 24 months of the ammonia slip exceeding 7 ppm @ 15% O<sub>2</sub>, as determined by an annual source test.

### **GENERAL CONDITIONS**

46. Authorization to operate the equipment listed and as prescribed in the approved plans and specifications is hereby granted, subject to the specified permit conditions. The operation of listed equipment shall be conducted in compliance with all data and specifications submitted with the application under which the initial permit was 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's Air Pollution Control Officer. (Basis: Rule 501)
47. This permit shall be maintained on the premises of the subject equipment. (Basis: Rule 501)
48. 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. (Basis: Rule 402)
49. In the event of any violation of the District Rules and Regulations, Roseville Electric shall take action to end such violation. (Basis: Rule 502)
50. Roseville Electric shall notify the District within two hours of any upset conditions, breakdown or scheduled maintenance which cause emissions in excess of limits established by District Rules and Regulations. (Basis: Rule 404)
51. Any alteration of the subject equipment, including a change in the method of operation, shall be reported to the District. Such alterations may require an Authority to Construct Permit. (Basis: Rule 501)
52. Exceeding any of the limiting conditions is prohibited without prior application for, and the subsequent granting of a permit modification. (Basis: Rule 501)
53. In the event of a change of ownership, an application must be submitted to the District. Upon any change in control or ownership of facilities constructed, operated, or modified under authority of this permit, the requirements contained in this Permit to Operate shall be binding on all subsequent owners and operators. (Basis: Rule 501)
54. Compliance of the permitted facility is required with the provisions of the AB2588 "Air Toxics 'Hot Spots' Information and Assessment Act" of 1987. (Basis: Health and Safety Code Sections 44300 et seq.)

55. Performance Test Requirements: If the District finds that additional performance tests are required to determine compliance with District Rules and Regulations and/or conditions of this Permit to Operate, reasonable written notice shall be provided to Roseville Electric. The performance tests shall be subject to the following restrictions (Basis: Rule 501):
- a. At least thirty (30) days prior to the actual testing, a written test plan shall be submitted to the District detailing the sampling methods, analytical methods or detection principles to be used. The prior written approval of the District is required for the use of alternate test methods.
  - b. 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/or state or federal regulations and the limiting conditions of this permit.
  - c. 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. 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 condensable particulate matter (e.g. Method 5 modified to include impinger catch).
  - d. A report of the testing shall be submitted to the District no later than sixty (60) days after the source test is performed.
56. The applicant/Permittee has an obligation to defend and indemnify the District against third party challenges. (Basis: Rule 411)





**PLACER COUNTY AIR POLLUTION CONTROL DISTRICT**

**Roseville Electric – Roseville Energy Park**

**Title V Operating Permit**

**Permit Number: REP-001**

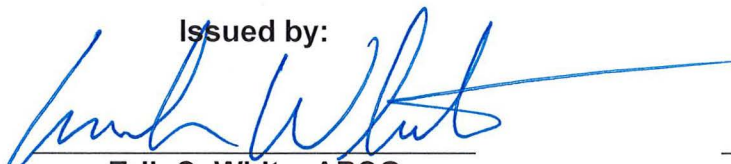
**Issued To:**

Roseville Electric  
2090 Hilltop Circle  
Roseville, CA 95747

**Plant Site Location:**

Roseville Energy Park  
5120 Phillip Road  
Roseville, CA 95747

**Issued by:**

  
Erik C. White, APCO

8/3/2023  
Date

**Effective Date:** August 3, 2023

**Expiration Date:** August 3, 2028

**Nature of Business:** Electric Utility

**SIC Code:** 4911

**Responsible Official:**

Daniel Beans  
Electric Utility Director  
Phone: (916) 774-5603  
Roseville Electric

**Facility Contact:**

Matt Garner  
Plant Superintendent  
Phone: (916) 746-1691  
Roseville Electric

# **Roseville Electric – Roseville Energy Park**

## **Title V Operating Permit**

### **Contents**

Section 1: Facility Description and Equipment Lists

Section 2: Specific Emission Unit Conditions

Section 3: Facility-Wide Conditions

Section 4: Standard Terms and Conditions

Section 5: Alternative Operating Scenarios

Section 6: Monitoring, Testing, Recordkeeping, and Reporting

Section 7: Compliance Certification

## 1.0 Facility Description and Equipment Lists

### 1.1 Description

Roseville Electric (the Electric Department of the City of Roseville) owns and operates a power plant, herein referred to as Roseville Energy Park, located in Roseville, California, in Township 11 North, Range 5 East, Section 23. The plant consists of four (4) natural gas-fired combustion turbine generators (CTGs). Two (2) of the CTGs are combined cycle turbines, equipped with heat recovery steam generator (HRSG) systems, which include supplemental natural gas-fired duct burners and a steam turbine electrical generator. The other two (2) CTGs operating at Roseville Energy Park are natural gas-fired simple cycle peaking units which are owned by the California Department of Water Resources and operated by Roseville Electric.

Nitrogen oxide (NOx) and carbon monoxide (CO) emissions from the combined cycle CTGs are controlled with the use of dry-low-NOx combustors, CO oxidation catalysts, and selective catalytic reduction systems on each of the turbines' exhaust streams. NOx and CO emissions from the simple cycle CTGs are controlled with the use of direct water injection, CO oxidations catalysts, and SCRs on the turbine exhaust streams.

The power plant commenced operations on October 15, 2007, with the commissioning of the two combined cycle CTGs and the steam turbine generator. The combined cycle CTGs each have a nominal power generation rating of 65.5 MW, and a peaking capacity of approximately 83 MW when the duct burners on the associated HRSGs are firing and the steam turbine is operated at full capacity. The simple cycle CTGs were first fired on September 15, 2021; however, they were not fully commissioned until July 5, 2022. The simple cycle CTGs each have a nominal power generation rating of 33.6 MW. Between the two combined cycle CTGs, with duct burners and the associated steam turbine, and the two simple cycle CTGs, Roseville Energy Park has a combined nominal power generation rating of 233 MW.

### 1.2 Equipment Listing

#### 1.2.1 Sources

##### Combustion

Equipment	Description
Combined Cycle Combustion Turbine Generator, CT1	Natural Gas Fired, Combined Cycle with Dry Low NOx Combustors, Manufacturer: Siemens; Model: SGT800, Serial Number: B005712, Nominal Heat Input Rating 478.6 MMBtu/hr, Nominal Power Generation Rating of 65.5 MW and Peak Capacity of 83 MW (with Duct Burners)
Combined Cycle Combustion Turbine Generator, CT2	Natural Gas Fired, Combined Cycle with Dry Low NOx Combustors, Manufacturer: Siemens; Model: SGT800, Serial Number: B005713, Nominal Heat Input Rating 478.6 MMBtu/hr, Nominal Power Generation Rating of 65.5 MW and Peak Capacity of 83 MW (with Duct Burners)
Heat Recovery Steam Generator Duct Burner, CT1	Natural Gas Fired, Manufacturer: Coen, Serial Number: 40D-14757-1-000, Nominal Heat Input Rating: 188 MMBtu/hr (LHV) and Maximum 225 MMBtu/hr
Heat Recovery Steam Generator Duct Burner, CT2	Natural Gas Fired, Manufacturer: Coen, Serial Number: 40D-14757-2-000, Nominal Heat Input Rating: 188 MMBtu/hr (LHV) and Maximum 225 MMBtu/hr
Simple Cycle Combustion Turbine Generator, CT5	Manufacturer: General Electric, Model: TM2500-G4; Serial # 679-341, Natural Gas Fired, Simple Cycle with Single Annular Combustors with Water Injection, Heat Input Rating: 366.1 MMBtu/hr, Nominal Power Generation Rating: 33.6 MW

Simple Cycle Combustion Turbine Generator, CT6	Manufacturer: General Electric, Model: TM2500-G4; Serial # 679-344, Natural Gas Fired, Simple Cycle with Single Annular Combustors with Water Injection, Heat Input Rating: 366.1 MMBtu/hr, Nominal Power Generation Rating: 33.6 MW
Emergency Generator	Emergency Generator, Diesel Engine, Manufacturer: Caterpillar, Model: 3412CDITA, Serial Number: AFN01451, Rated 1,114 bhp; 750 kW
Fire Pump	Emergency Fire Pump, Diesel Engine, Manufacturer: Clarke, Model: JU6H-UF60, Serial Number: CD6068B003958, Rated 240 bhp

### General

Equipment	Description
Cooling Tower	Cooling Tower, Four Cell, Mechanical Draft Counter - Flow Design with Drift Eliminators, Make: SPX Marley, Model: F488A-4-04, Serial Number: 256161-F488A-4-04-06

### 1.2.2 Emissions Control Equipment

Equipment	Description
Selective Catalytic Reduction, CT1	Selective Catalytic Reduction (SCR) System, Ammonia Injection System within the Heat Recovery Steam Generator, Manufacturer: Peerless, Serial Number: 70373
Selective Catalytic Reduction, CT2	Selective Catalytic Reduction (SCR) System, Ammonia Injection System within the Heat Recovery Steam Generator, Manufacturer: Peerless, Serial Number: 70373
Selective Catalytic Reduction, CT5	Selective Catalytic Reduction (SCR) System with Integrated Ammonia Injection System, Manufacturer: Braden-Americas, Inc., Serial Number: 25101
Selective Catalytic Reduction, CT6	Selective Catalytic Reduction (SCR) System with Integrated Ammonia Injection System, Manufacturer: Braden-Americas, Inc., Serial Number: 25101
Oxidation Catalyst, CT1	Carbon Monoxide Oxidation Catalyst, Manufacturer: EmeraChem ADCAT, Serial Number: 017421-CV
Oxidation Catalyst, CT2	Carbon Monoxide Oxidation Catalyst, Manufacturer: EmeraChem ADCAT, Serial Number: 017421-CV
Oxidation Catalyst, CT5	Carbon Monoxide Oxidation Catalyst, Manufacturer: Braden-Americas, Inc., Module IDs: 146 to 292
Oxidation Catalyst, CT6	Carbon Monoxide Oxidation Catalyst, Manufacturer: Braden-Americas, Inc., Module IDs: 146 to 292

### 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 (diesel) 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 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 Combined Cycle Turbine Generators – CT1 & CT2

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

Combined Cycle Combustion Turbines CT1 & CT2 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 combined cycle gas turbine and heat recovery steam generator exhaust, except during startup and/or shutdown, or excursions shall not exceed the following:

Combined Cycle Combustion Turbines CT1 & CT2 Emission Limitations Excluding Startup and Shutdown	
Pollutant	Pounds/Hour
NOx	5.1 (one-hour average)
CO	6.2 (three-hour rolling average)
VOCs	1.8
PM-10	4.7
SOx	1.0

Origin: FDOC, Condition 57

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

**2.1.3** Quarterly emissions from the combined cycle combustion turbines shall not exceed the levels shown below:

Combined Cycle Combustion Turbines CT1 & CT2 Emission Limitations – Combined Emissions							
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 from CT1 and CT2 shall not exceed 10 ppmv @15% O<sub>2</sub>. Compliance with ammonia slip shall be demonstrated by using the following calculation procedure:

$$\text{ammonia slip ppmvd @ 15\% O}_2 = d \left( a - \left( \frac{bc}{1,000,000} \right) \right) \left( \frac{1,000,000}{b} \right)$$

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 NO<sub>x</sub> concentration ppmv at 15% O<sub>2</sub> 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 selective catalytic reduction (SCR) catalyst shall be replaced, repaired or reconditioned within 24 months of an ammonia slip exceeding 7.0 parts per million (ppmvd) @ 15% O<sub>2</sub>, averaged over a 24-hour period, as determined by an annual source test.

Origin: FDOC, Condition 51

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

**2.1.6** The emissions from the combined cycle gas turbines after air pollution controls shall not exceed the following:

Combined Cycle Gas Turbines CT1 & CT2 Exhaust Concentration Limitations Excluding Startup, Shutdown and Excursions		
NO <sub>x</sub>	CO	VOC
2.0 ppmvd @ 15% O <sub>2</sub> 1-hour average	4 ppmvd @ 15% O <sub>2</sub> 3-hour average	2 ppmvd @ 15% O <sub>2</sub> 1-hour average

Origin: FDOC, Condition 52

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

**2.1.7** The 2.0 ppmvd NO<sub>x</sub> 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 NO<sub>x</sub> emissions above 2.0 ppmvd, dry basis at 15% O<sub>2</sub>, 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 NO<sub>x</sub> emissions above 2.0 ppmv, dry basis at 15% O<sub>2</sub>, 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 2.1.7(1) 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 NO<sub>x</sub> 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 NO<sub>x</sub> concentration for periods that result from a qualified operating condition does not exceed 25 ppmv, dry basis at 15 percent O<sub>2</sub>.
5. All NO<sub>x</sub> 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]

**2.1.8** Startup for the combined cycle gas turbines 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]

**2.1.9** NO<sub>x</sub> from the combined cycle gas turbines, 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:

$$Allowed\ NO_x = 9 \times \left( \frac{EFF}{25\ ppm\ @\ 15\%\ O_2\ (averaged\ over\ 15\ minutes)} \right)$$

Where:

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

$$EFF_1 = \frac{3,412 \times 100\%}{AHR}$$

*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 lower heating value (LHV), which is the manufacturer's continuous rated percent efficiency of the gas turbine with air pollution equipment after correction from LHV to higher heating value (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]

**2.1.10** The combined cycle 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]

**2.1.11** Roseville Electric shall install a selective catalytic reduction (SCR) system and an oxidation catalyst on the combined cycle gas turbines. The SCR and oxidation catalyst equipment shall be operated whenever the combined cycle gas turbines are operated except during commissioning.

Origin: FDOC, Condition 15



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

**2.1.12** The combined cycle 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]

**2.1.13** The combined cycle 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]

## **2.2 Simple Cycle Turbine Generators – CT5 & CT6**

**2.2.1** Emission rates from each simple cycle gas turbine exhaust during startup and shutdown shall not exceed the following:

Simple Cycle Combustion Turbines CT5 & CT6 Emission Limitations During Startup and/or Shutdown			
Pollutant	Pounds per Startup	Pounds per Shutdown	Pounds per Hour During Startup and/or Shutdown
NO <sub>x</sub>	3.10	3.40	6.50
CO	19.40	21.60	41.00
VOC	0.80	0.90	1.70

Origin: REPR-20-03 and REPR-20-04, Condition 35

Authority: Rule 502, New Source Review §302 [amended 08/12/2021]

**2.2.2** Emission concentrations from each simple cycle gas turbine exhaust shall not exceed the following:

Simple Cycle Combustion Turbines CT5 & CT6 Emission Concentration Limitations	
Pollutant	ppmvd @ 15% Oxygen
NO <sub>x</sub>	2.5
CO	4.0

Origin: REPR-20-03 and REPR-20-04, Condition 34

Authority: Rule 502, New Source Review §302 [amended 08/12/2021]

**2.2.3** The 2.5 ppmvd NO<sub>x</sub> 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 NO<sub>x</sub> emissions above 2.5 ppmvd, dry basis at 15% O<sub>2</sub>, 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 combustion turbine water injection.
  - c. Events as the result of technological limitations identified by the operator and approved in writing by the District.
2. The 1-hour average NO<sub>x</sub> emissions above 2.5 ppmv, dry basis at 15% O<sub>2</sub>, 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 2.2.3(1) 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 NO<sub>x</sub> emissions exceeding the 2.5 ppmv 1-hour average limit. In addition, these excursions must be identified in the CEMS quarterly reports.
4. The 1-hour average NO<sub>x</sub> concentration for periods that result from a qualified operating condition does not exceed 25 ppmv, dry basis at 15 percent O<sub>2</sub>.
5. All NO<sub>x</sub> emissions during these events shall be included in all calculations of hourly, daily, and annual mass emission rates as required by this permit.

**2.2.4** Emission rates from each simple cycle gas turbine exhaust, except during startup and/or shutdown, shall not exceed the following:

Simple Cycle Combustion Turbines CT5 & CT6 Emission Limitations Per Turbine - Excluding Startup and Shutdown	
Pollutant	Pounds/Hour
NO <sub>x</sub>	2.71
CO	2.64
VOCs	0.66
PM-10	4.00
SO <sub>x</sub>	0.20

Origin: REPR-20-03 and REPR-20-04, Condition 34

Authority: Rule 502, New Source Review §302 [amended 08/12/2021]

**2.2.5** Quarterly emissions from each simple cycle gas turbine exhaust shall not exceed the following:

Simple Cycle Combustion Turbines CT5 & CT6 Quarterly Emission Limitations Per Turbine				
Pollutant	Quarter 1 (lbs/qtr)	Quarter 2 (lbs/qtr)	Quarter 3 (lbs/qtr)	Quarter 4 (lbs/qtr)
NO <sub>x</sub>	802	802	802	802
CO	2,168	2,168	2,168	2,168
VOCs	200	200	200	200
PM-10	844	844	844	844
SO <sub>x</sub>	56	56	56	56

Origin: REPR-20-03 and REPR-20-04, Condition 36

Authority: Rule 502, New Source Review §302 [amended 08/12/2021]

**2.2.6** Roseville Electric shall fire the simple cycle gas turbines exclusively on pipeline-quality natural gas with a maximum sulfur content of 0.5 grains per 100 standard cubic feet. To demonstrate compliance with this limit, the operator shall possess a current, valid purchase contract, tariff sheet, or transportation contract for the fuel, specifying the total sulfur content. PG&E monthly sulfur data may be used provided that such data can be demonstrated to be representative of the gas delivered to Roseville Energy Park. Alternatively, the operator may choose to sample and analyze the gas from each supply source at least monthly to determine the sulfur content of the gas.

Origin: REPR-20-03 and REPR-20-04, Condition 2

Authority: Rule 502, New Source Review 301 § 302 [amended 08/12/2021]

**2.2.7** Roseville Electric shall ensure that the simple cycle gas turbines are abated by the properly operated and properly maintained SCR system and carbon monoxide oxidation catalyst whenever fuel is combusted at the source and that the corresponding SCR catalyst bed has reached its minimum operating temperature.

Origin: REPR-20-03 and REPR-20-04, Condition 8  
Authority: Rule 502, New Source Review 301 § 302 [amended 08/12/2021]

**2.2.8** The ammonia slip from CT5 and CT6 shall not exceed 10 ppmv @15% O<sub>2</sub>. Compliance with ammonia slip shall be demonstrated by using the following calculation procedure:

$$\text{ammonia slip ppmvd @ 15\% O}_2 = d \left( a - \left( \frac{bc}{1,000,000} \right) \right) \left( \frac{1,000,000}{b} \right)$$

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 NO<sub>x</sub> concentration ppmv at 15% O<sub>2</sub> across catalyst
- d = correction factor

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

Origin: REPR-20-03 and REPR-20-04, Condition 44  
Authority: Rule 502, New Source Review §302 [amended 08/12/2021]

**2.2.9** The selective catalytic reduction (SCR) catalyst shall be replaced, repaired or reconditioned within 24 months of an ammonia slip exceeding 7.0 parts per million (ppmvd) @ 15% O<sub>2</sub>, averaged over a 24-hour period, as determined by an annual source test.

Origin: REPR-20-03 and REPR-20-04, Condition 45  
Authority: Rule 502, New Source Review §302 [amended 08/12/2021]

**2.2.10** Startup for each simple cycle gas turbine is defined as the lesser of the following:

1. The period of time from fuel flow initiation until the gas turbine achieves compliance with the NO<sub>x</sub> and CO emission concentration limits in Condition 2.2.1 and 2.2.2 for two consecutive minutes; or,
2. The first 30 minutes of continuous fuel flow to the gas turbine after fuel flow is initiated.

Origin: REPR-20-03 and REPR-20-04, Condition 10  
Authority: Rule 502, New Source Review §302 [amended 08/12/2021]

**2.2.11** Shutdown for each simple cycle gas turbine is defined as the lesser of the following:

1. The period of time beginning from non-compliance with the NO<sub>x</sub> or CO concentration emission limits in Condition 2.2.2, associated with the initiation of the gas turbine shutdown sequence, until termination of fuel flow to the gas turbine; or,
2. The first 15-minute period immediately prior to termination of fuel flow to the gas turbine.

Origin: REPR-20-03 and REPR-20-04, Condition 11  
Authority: Rule 502, New Source Review §302 [amended 08/12/2021]

**2.2.12** Roseville Electric shall limit the total startup events for each simple cycle gas turbine to no more than 4 startups per day, 40 startups per calendar quarter, and 40 startups per calendar year.

Origin: REPR-20-03 and REPR-20-04, Condition 12  
Authority: Rule 502, New Source Review 301 § 302 [amended 08/12/2021]

**2.2.13** Roseville Electric shall limit the total shutdown events for each simple cycle gas turbine to no more than 4 shutdowns per day, 40 shutdowns per calendar quarter, and 40 shutdowns per calendar year.

Origin: REPR-20-03 and REPR-20-04, Condition 13  
Authority: Rule 502, New Source Review 301 § 302 [amended 08/12/2021]

**2.2.14** Roseville Electric shall not operate the simple cycle gas turbines such that the heat input rate to each unit exceeds 366.1 MMBtu (HHV) per hour, or such that the total heat input to each gas turbine exceeds 73,220 MMBtu per calendar quarter or 73,220 MMBtu per calendar year.

Origin: REPR-20-03 and REPR-20-04, Conditions 3, 4, and 5  
Authority: Rule 502, New Source Review 301 § 302 [amended 08/12/2021]

**2.2.15** Roseville Electric shall not operate the simple cycle gas turbines such that the hours of operation for each unit exceed 200 hours per calendar quarter or 200 hours per calendar year.

Origin: REPR-20-03 and REPR-20-04, Conditions 6 and 7  
Authority: Rule 502, New Source Review 301 § 302 [amended 08/12/2021]

## **2.3 Cooling Tower**

**2.3.1** 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]

**2.3.2** 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]

**2.3.3** 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**

**2.3.4** 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]

## **2.4 Fire Pump**

**2.4.1** 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]

**2.4.2** 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]

**2.4.3** 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]

**2.4.4** 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**

**2.4.5** 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**

**2.4.6** 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 87

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

**District Only**

## **2.5 Emergency Generator**

**2.5.1** 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]

**2.5.2** 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]

**2.5.3** 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]

**2.5.4** 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**

**2.5.5** 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**

**2.5.6** 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**

## 2.6 Facility-Wide Emissions

**2.6.1** 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	35.76
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]

**2.6.2** Excluding emissions from startup and shutdown events, the daily emissions from the facility's permitted equipment shall not exceed the following rates:

Facility Daily Emission Limits (lbs)					
Pollutant	Two Combined Cycle Turbines	Cooling Tower	Diesel Emergency Generator	Diesel Fire Pump	Simple Cycle Turbines (each)
NOx	406.0	--	4.31	1.72	65.04
CO	629.5	--	0.84	0.09	63.36
VOC	223.1	--	0.16	0.05	15.84
PM-10	226.8	16.3	0.14	0.03	96.00
SOx	47.1	--	0.10	0.19	4.80

Origin: FDOC, Condition 59; REPR-20-03 and REPR-20-04, Condition 34

Authority: Rule 502, New Source Review 301 § 302 [amended 08/12/2021]

### **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; REPR-20-03 and REPR-20-04, Condition 40

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; REPR-20-03 and REPR-20-04, Condition 39

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: REPR-20-03 and REPR-20-04, Condition 41

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 SO<sub>2</sub> shall not exceed 0.2 percent by volume.

Origin: FDOC, Conditions 49, 50, 92, 93, 105, and 106; REPR-20-03 and REPR-20-04, Condition 42

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; REPR-20-03 and REPR-20-04, Condition 48

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; REPR-20-03 and REPR-20-04, Condition 50

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]; REPR-20-03 and REPR-20-04, Condition 20

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 04/08/2021]; Rule 507 § 302.6 and § 302.7 [amended 04-17-01]

Authority: Rule 501, General Permit Requirements § 400 [amended 04/08/2021]; 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 [amended 04/08/2021]

Authority: Rule 501 § 403 [amended 04/08/2021]

### **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; REPR-20-03 and REPR-20-04, Condition 46

Authority: Rule 501, General Permit Requirements § 300 [amended 04/08/2021]

**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; REPR-20-03 and REPR-20-04, Condition 51

Authority: Rule 501, General Permit Requirements [amended 04/08/2021]

### **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; REPR-20-03 and REPR-20-04, Condition 52

Authority: Rule 501, General Permit Requirements § 400 [amended 04/08/2021] ; 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 combined cycle gas turbines / heat recovery steam generators and the simple cycle gas turbines 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 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; REPR-20-03 and REPR-20-04, Condition 29  
Authority: Rule 501, General Permit Requirements § 503 [amended 04/08/2021]

### **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; REPR-20-03 and REPR-20-04, Condition 54  
Authority: HSC § 44300 et seq.; Rule 501, General Permit Requirements § 303 [amended 04/08/2021]  
**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 04/08/2021]  
Authority: Rule 501, General Permit Requirements § 303 [amended 04/08/2021]

**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; REPR-20-03 and REPR-20-04, Condition 53  
Authority: Rule 501, General Permit Requirements § 303.1 [amended 04/08/2021]

### **3.10.7 Permit Posting (Rule 501)**

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

Origin: FDOC, Condition 114; REPR-20-03 and REPR-20-04, Condition 47  
Authority: Rule 501, General Permit Requirements § 303.1 [amended 04/08/2021]

### **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 [amended 04/08/2021]  
Authority: Rule 501, General Permit Requirements [amended 04/08/2021]

### **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 [amended 04/08/2021]  
Authority: Rule 501, General Permit Requirements § 303 [amended 04/08/2021]

## **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; REPR-20-03 and REPR-20-04, Condition 49  
Authority: Rule 502, New Source Review [amended 08/12/2021]

### **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 08/12/2021], Rule 507, Federal Operating Permit Program § 222 and 302.6 Permit Modification [amended 04/17/01]

Authority: Rule 502, New Source Review [amended 08/12/2021], 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 [amended 08/12/2021]

Authority: Rule 502, New Source Review [amended 08/12/2021]

### **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; REPR-20-03 and REPR-20-04, Condition 28

Authority: Rule 503, Emission Statement [amended 10/08/2020]

#### **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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 202.4 Transfer [amended 04/08/2004]

### **3.14 Permit Compliance (Rule 507)**

Roseville Electric shall comply with all permit conditions.

Origin: Rule 507, Federal Operating Permit Program § 402.2k [amended 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2k [amended 04/08/2004]

### **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 (SO<sub>2</sub>) emissions allowances must be obtained, according to procedures established in regulations under Title IV of the Federal Clean Air Act, for SO<sub>2</sub> 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 SO<sub>2</sub> 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, § 402.2s [amended 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program, § 402.2s [amended 04/08/01]; 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 04/17/2001]

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 04/08/2004]

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.o [amended 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.o [amended 04/08/2004]

### **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.p [amended 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.p [amended 04/08/2004]

### **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:

**4.3.1** 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,

**4.3.2** 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,

**4.3.3** 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,

**4.3.4** To sample emissions from the source or other monitoring activities.

Origin: Rule 507, Federal Operating Permit Program § 402.2.j [amended 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.j [amended 04/08/2004]

### **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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.m [amended 04/08/2004]

### **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 defense for non-compliance with any permit condition.

Origin: Rule 507, Federal Operating Permit Program § 402.2.k.4 [amended 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.k.4 [amended 04/08/2004]

### **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 § 401.8 [amended 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 401.8 [amended 04/08/2004]

### **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:

**4.7.1** Compliance with the permit, or

**4.7.2** 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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.k.6 [amended 04/08/2004]

#### **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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2 k.1 and 402.2.k.3 [amended 04/08/2004]

#### **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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.k.2 [amended 04/08/2004]

#### **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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 302.4 [amended 04/08/2004]

#### **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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 212 [amended 04/08/2004]

##### **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 04/08/2004]

Authority: District Rule 507, Federal Operating Permit Program § 402.2.I [amended 04/08/2004]

#### **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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.I.3 [amended 04/08/2004]

#### **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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.r [amended 04/08/2004]

#### **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  
110 Maple Street  
Auburn, CA 95603  
Facsimile: 530-745-2373  
E-Mail: [District@placer.ca.gov](mailto: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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.1.8 [amended 04/08/2004]

#### **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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.u [amended 04/08/2004]

#### **4.16 Requirement for an Indemnification Agreement**

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 02/14/2008]

Authority: Rule 411, Indemnification of District [adopted 02/14/2008]

#### **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 NO<sub>x</sub> excursions per condition 2.1.7 and 2.2.3 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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.q [amended 04/08/2004]

## **6.0 Monitoring, Testing, Recordkeeping, and Reporting**

### **6.1 General Monitoring, Recordkeeping 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 04/08/2021]; HSC § 42303

Authority: Rule 501, General Permit Requirements § 407 [amended 04/08/2021]; HSC § 42303

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

The combined cycle gas turbines, CT1 and CT2, 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 04/08/2021]

Authority: Rule 501, General Permit Requirements § 503.1, § 503.2 [amended 04/08/2021]

##### **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, including both the combined cycle gas turbines, CT1 and CT2, and the simple cycle gas turbines, CT5 and CT6, shall be equipped with continuously recording, non-resettable fuel gas flowmeters on each unit.

Origin: FDOC, Condition 17; REPR-20-03 and REPR-20-04, Condition 9

Authority: Rule 501, General Permit Requirements § 405, § 303 [amended 04/08/2021]; 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 04/08/2021]; 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 04/08/2021]; 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 04/08/2021]; 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 04/08/2021]; HSC § 41753; California Code of Regulations, Title 17, § 93115

#### **6.3 Continuous Emissions Monitoring Systems (CEMS)**

**6.3.1** Each gas turbine exhaust, including both the combined cycle gas turbines, CT1 and CT2, and the simple cycle gas turbines, CT5 and CT6, shall be equipped with continuously recording emissions monitor for NO<sub>x</sub>, CO, and O<sub>2</sub> 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; REPR-20-03 and REPR-20-04, Condition 9

Authority: Rule 501, General Permit Requirements [amended 04/08/2021]

**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 04/08/2021]

Authority: Rule 501, General Permit Requirements [amended 04/08/2021]

**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; REPR-20-03 and REPR-20-04, Condition 15

Authority: Rule 501, General Permit Requirements [amended 04/08/2021]

**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<sub>x</sub>, CO, PM-10, VOC and SO<sub>x</sub> 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 04/08/2021]

**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; REPR-20-03 and REPR-20-04, Condition 25

Authority: Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance § C [amended 06/19/79]; Rule 501, General Permit Requirements § 303, § 304.2.c [amended 04/08/2021]; 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.I [amended 04/08/2004]; Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance [amended 06/19/79]; Rule 501, General Permit Requirements § 304.2 [amended 04/08/2021]

Authority: Rule 507, Federal Operating Permit Program § 402.2.I [amended 04/08/2004]; Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance [amended 06/19/79]; Rule 501, General Permit Requirements § 304.2 [amended 04/08/2021]

#### **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 [amended 04/08/2021]; 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 [amended 04/08/2021]; 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 04/08/2021]

Authority: Rule 501, General Permit Requirements § 303, § 304, § 507 [amended 04/08/2021]

**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 04/08/2021]

Authority: Rule 501, General Permit Requirements § 501.1 [amended 04/08/2021]

**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 04/08/2021]

Authority: Rule 501, General Permit Requirements § 307, § 407, § 501.1 [amended 04/08/2021]

**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; REPR-20-03 and REPR-20-04, Condition 55

Authority: Rule 501, General Permit Requirements § 307, § 407, and § 501 [amended 04/08/2021]

**6.4.1.5** The gas turbine exhaust stacks stack, including both the combined cycle gas turbines, CT1 and CT2, and the simple cycle gas turbines, CT5 and CT6, 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; REPR-20-03 and REPR-20-04, Condition 1

Authority: Rule 501, General Permit Requirements § 405, § 303 [amended 04/08/2021]; 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 04/08/2021]; Rule 603, Analysis Feed [amended 08/08/96; HSC § 42303

Authority: Rule 501, General Permit Requirements § 407 [amended 04/08/2021]; 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 04/08/2021]

#### **6.4.3 Turbines**

**6.4.3.1** A performance test shall be conducted annually for each combined cycle combustion turbine/heat recovery steam generator unit and simple cycle combustion turbine.

Origin: FDOC, Condition 44; REPR-20-03 and REPR-20-04, Condition 30

Authority: Rule 501, General Permit Requirements [amended 04/08/2021]

**6.4.3.2** Compliance with the cold start NO<sub>x</sub>, and CO mass emission limits shall be demonstrated for each of the combined cycle gas turbines, CT1 and CT2, 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 04/08/2021]

**6.4.3.3** The following test methods shall be used PM-10: EPA Method 202 (front half and back half), NO<sub>x</sub>: 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 04/08/2021]

#### **6.5 Recordkeeping**

**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; REPR-20-03 and REPR-20-04, Condition 20

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

**6.5.2** An operating log shall be kept for each gas turbine, including both the combined cycle gas turbines, CT1 and CT2, and the simple cycle gas turbines, CT5 and CT6, 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. 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 04/08/2021]

**6.5.3** Hourly records of NO<sub>x</sub> and CO emission concentrations (ppmv @ 15% O<sub>2</sub>), and hourly, daily, and quarterly records of NO<sub>x</sub> and CO emissions shall be kept for the gas turbines, including both the combined cycle gas turbines, CT1 and CT2, and the simple cycle gas turbines, CT5 and CT6. 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; REPR-20-03 and REPR-20-04, Condition 16

Authority: Rule 501, General Permit Requirements [amended 04/08/2021]

**6.5.4** Records of SO<sub>x</sub> lb/hr, lb/day, and lb/quarter emissions shall be kept. SO<sub>x</sub> emissions shall be based on fuel use records, natural gas sulfur content, and mass balance calculations.

Origin: FDOC, Condition 33; REPR-20-03 and REPR-20-04, Condition 17

Authority: Rule 501, General Permit Requirements [amended 04/08/2021]

**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; REPR-20-03 and REPR-20-04, Condition 22

Authority: Rule 501, General Permit Requirements [amended 04/08/2021]

**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 04/08/2021]

Authority: Rule 501, General Permit Requirements § 503.1, § 503.2 [amended 04/08/2021]

**6.5.7** 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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/08/2004]

**6.5.8** 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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/08/2004]



**6.5.9** 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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/08/2004]

**6.5.10** 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.2 [amended 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.f.2 [amended 04/08/2004]

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

Origin: Rule 501, General Permit Requirements § 503.1 [amended 04/08/2021]

Authority: Rule 501, General Permit Requirements § 503.1 [amended 04/08/2021]

## **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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/08/2004]

### **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 04/08/2021]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/08/2021]

**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 04/08/2021]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/08/2021]

**6.6.4** Roseville Electric shall provide source test information annually regarding the exhaust gas NO<sub>x</sub> concentration at ISO conditions corrected to 15 percent oxygen on a dry basis, and the demonstrated percent efficiency (EFF) of the combined cycle gas turbine units, CT1 and CT2.

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; REPR-20-03 and REPR-20-04, Conditions 23 and 50

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; REPR-20-03 and REPR-20-04, Condition 21

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; REPR-20-03 and REPR-20-04, Condition 21

Authority: Rule 501, General Permit Requirements [amended 04/08/2021]

**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 04/08/2021]

Authority: Rule 501, General Permit Requirements [amended 04/08/2021]

**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; REPR-20-03 and REPR-20-04, Condition 27

Authority: Rule 507, Federal Operating Permit Program [amended 04/08/2004]

## **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. Describe the compliance status of an emissions unit with respect to each applicable federal requirement;
2. Describe 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. Assure that an emissions unit will continue to comply with those permit conditions with which it is in compliance; and,
4. Assure 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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.h [amended 04/08/2004]

### **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 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.n [amended 04/08/2004]

### **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:

**7.3.1.1** 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.

**7.3.1.2** Include:

- (1) A statement that the emissions unit will continue to comply with those federal requirements with which it is still in compliance;
- (2) 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.
- (3) 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.

Origin: Rule 507, Federal Operating Permit Program § 402.2.i [amended 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.i [amended 04/08/2004]

**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.g [amended 04/08/2004]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/08/2004]