

<b>DOCKETED</b>	
<b>Docket Number:</b>	03-AFC-01C
<b>Project Title:</b>	Roseville Energy Park Compliance
<b>TN #:</b>	268922
<b>Document Title:</b>	Petition to Amend - Merging of Roseville State Power Augmentation Power Site license (21-TPG-01) into the existing REP License
<b>Description:</b>	Petition to Amend - Merging of the License of Roseville State Power Augmentation Power Site (RSPAPS) License (21-TPG-01) into the existing Roseville Energy Park (REP) License (03-AFC-01).
<b>Filer:</b>	Anwar Ali
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	3/4/2026 1:18:42 AM
<b>Docketed Date:</b>	3/4/2026



California  
**ENERGY COMMISSION**



CALIFORNIA  
**NATURAL  
RESOURCES  
AGENCY**

**DATE:** March 4, 2026

**TO:** Interested Parties

**FROM:** Anwar Ali, Compliance Project Manager

**SUBJECT: ROSEVILLE ENERGY PARK (03-AFC-01C)**  
**CEC Staff Analysis of Petition to Amend the Final Commission Decision**

On November 25, 2025, City of Roseville Electric Utility (REU), the project owner of the Roseville Energy Park (REP), filed a post certification petition (petition, [TN 267741](#)), with the California Energy Commission (CEC) requesting to amend the REP's Final Commission Decision (Decision). The project owner is proposing to merge the Roseville State Power Augmentation Power Site license (21-TPG-01) into the existing REP license.

The REP is a 160-megawatt natural gas-fired, combined-cycle electrical generating facility located in the city of Roseville, Placer County. The project was certified by the CEC on April 13, 2005, and began commercial operation on November 5, 2007.

### **Description of Proposed Change**

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The REU is seeking CEC approval of the following:

1. Amend the REP license to merge the temporary Roseville State Power Augmentation Power Site (RSPAPS) license, which includes two GE TM2500s (21-TPG-01) into the existing REP license; and
2. Permanent closure of the CEC docket for RSPAPS.

### **CEC Staff Review and Conclusions**

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California Code of Regulations, title 20, section 1769 requires a project owner to petition the CEC for the approval of any change the project owner proposes to the project, design, operation, or performance requirements of a certified facility. A change in ownership or operational responsibility also requires approval through the post-certification amendment process. Consistent with these regulations, the CEC staff (staff) has reviewed the petition to merge the two licenses covering the facility into one comprehensive license with a single set of air quality conditions.

Staff intends to recommend approval of the petition at the April 8, 2026, Business Meeting of the CEC.

The CEC's project webpage (<https://www.energy.ca.gov/powerplant/combined-cycle/roseville-energy-park>) has a link to the petition and the Staff Analysis. In the box labeled "Compliance Proceeding," click on "Docket Log" to access documents for this proceeding. If approved, the CEC's Order approving this petition will also be available from the same webpage.

This letter has been mailed to the CEC's list of interested parties and property owners of all parcels within 500 feet of any affected project linear facility and 1,000 feet of the power plant site. It has also been emailed to the Roseville Electric subscription list. The list is an automated the CEC email system by which information about this facility is emailed to parties who have subscribed. To subscribe, go to the [CEC's project webpage](#), cited above, scroll down the right side of the project's webpage to the box labeled "Subscribe," and provide the requested contact information.

Any person may comment on the Staff Analysis. Those who wish to submit comments on the analysis prior to the CEC Business Meeting may do so by using the CEC's electronic commenting feature. Go to the [CEC's project webpage](#), and click on either the "Comment on this Proceeding," or "[Submit e-Comment](#)" link. When your comments are filed, you will receive an email with a link to them.

Written comments may also be mailed or hand-delivered to:

California Energy Commission  
Docket Unit, MS-4  
Docket No. 03-AFC-01C  
715 P Street  
Sacramento, CA 95814-5512

Comments will also be accepted during the scheduled Business Meeting. All comments and materials filed with the Docket Unit will be added to the facility Docket Log and become publicly accessible on the [CEC's project webpage](#)

If you have questions about this notice, please contact Compliance Project Manager Anwar Ali, Compliance Monitoring and Enforcement Unit, Safety and Reliability Branch, at (916) 698-7498 or via e-mail at [anwar.ali@energy.ca.gov](mailto:anwar.ali@energy.ca.gov).

For information on public participation, please contact the CEC's Office of Public Advisor, Energy Equity, and Tribal Affairs at (916) 957-7910 or email at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov).

News media inquiries should be directed to the CEC's Media Office at (916) 654-4989, or by e-mail to [mediaoffice@energy.ca.gov](mailto:mediaoffice@energy.ca.gov).

Mail List: 7172  
Subscription List: Roseville Electric

**ROSEVILLE ENERGY PARK (03-AFC-01C)**  
**Petition to Amend Commission Decision**  
**EXECUTIVE SUMMARY**

Anwar Ali, Ph.D.

**INTRODUCTION**

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On November 25, 2025, City of Roseville Electric Utility (REU), the project owner of the Roseville Energy Park (REP), filed a post certification petition (petition, [TN 267741](#)), with the California Energy Commission (CEC) requesting to amend REP's Final Commission Decision (Decision). The project owner is proposing to merge the Roseville State Power Augmentation Power Site license (21-TPG-01) into the existing REP license.

The REP is a 160-megawatt (MW) natural gas-fired, combined-cycle electrical generating facility located in the city of Roseville, Placer County. The project was certified by the CEC on April 13, 2005, and began commercial operation on November 5, 2007.

**DESCRIPTION OF PROPOSED CHANGE(S)**

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The project owner is seeking CEC approval of the following:

1. Amendment of the REP license to merge the temporary RSPAPS license, which includes two TM2500 G4 Turbines (21-TPG-01) into the existing REP license; and
2. Permanent closure of the RSPAPS CEC docket.

The CEC proposes to merge the two licenses to comport with the facility being operated as one power plant and to match the local air district's unified permit. (Cal. Code Regs., tit. 20, § 1769).

**NECESSITY FOR THE PROPOSED CHANGE(S)**

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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. Taking 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 determined could 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 RSPAPS emergency and temporary power generators. Additionally, on September 13, 2021, the Placer County Air Pollution Control District (PCAPCD) issued an Authority to Construct (ATC) and Temporary Permits to Operate (PTOs). The two TM2500 units commenced commercial operation in September of 2021. The ATC and PTOs were renewed in 2022 and then renewed on October 1, 2023. The PTOs are renewed annually thereafter.

In November 2024, REU took ownership of the RSPAPS units. The current PCAPCD PTOs were issued on October 7, 2025, and reflect a 2,200 operating hour limitation for each of the simple cycle turbines.

The merging of RSPAPS license into the REP license will streamline reporting obligations and eliminate duplicative air quality and periodic reporting. As a result, the following periodic and air quality reporting will include information for the RSPAPS turbines:

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

## **CEC STAFF REVIEW AND CONCLUSION**

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The merging of RSPAPS into the REP certification combines RSPAP's operational and certified equipment into REP's project equipment. There are no changes to either the REP or RSPAPS' project design, operation or performance requirements. The merger of the two project certifications is administrative resulting in no physical change to the environment. Therefore, the merger is not an activity subject to CEQA. Under California Code of Regulations, title 14, section 15060(c)(2) and (c)(3) an activity is not subject to CEQA if the activity will not result in a direct or reasonably foreseeable indirect physical change in the environment or the activity is not a project as defined in Section 15378. To be a project, the activity must have potential for resulting in either direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment. In this case the facility is already operating, and the merger of certification does not change any of the existing operations of the facility.

Even if the merger is considered a project, the merger is exempt from CEQA under the "Common Sense Exemption" under CEQA section 15061(b)(3). There is no possibility that the proposed change may have a significant effect on the environment because

both facilities are currently certified and operational and this amendment is administrative in nature.

Amendment to the REP license, merging the RSPAPS units, will streamline reporting obligations and eliminate duplicative air quality and periodic reporting currently conducted under the separate REP and RSPAPS licenses. The merged projects will file a single consolidated annual compliance report and quarterly air quality report.

Staff has identified a list COCs that are necessary for the incorporation of the PCAPCD's Permit to Operate conditions that apply to both of the two temporary RSPAPs (General Electric TM2500-G4) turbines and REC facility. Staff has added new COCs in consideration of merging the RSPAPS units into REP license. Additionally, staff identified the existing COCs that are applicable to the merged RSPAPS turbines and REP facility. For more information, please see the attached Air Quality analysis.

**Roseville Energy Park (03-AFC-01C)**  
**Petition to Amend**  
**AIR QUALITY, PUBLIC HEALTH, AND GREENHOUSE GASES**  
**Ivan O'Brien**

The following list of conditions of certification (COCs), shown in **Table 1 AIR QUALITY**, outlines the necessary requirements to incorporate the Placer County Air Pollution Control District's Permit to Operate conditions for the two General Electric TM2500-G4 turbines into the CEC license. New COCs are being added as indicated that include new outlined requirements for the GE TM2500-G4 turbines that comport with the existing design of the equipment. Additionally, existing COCs that are unedited, but still applicable to the addition of the turbines have been listed as well.

**Table 1 AIR QUALITY**  
**Mapping of CEC and District Condition Numbering**  
**with Proposed Modifications**

<b>CEC Condition of Certification Numbering</b>	<b>Air District Permit Numbering</b>	<b>Proposed Modification</b>	<b>Description of the Condition</b>
<b>AQ-123</b> (new)	1	New	Requires design of GE TM2500-G4 exhaust stacks to be aligned with the requirements set by the EPA Method 1 design requirements
<b>AQ-124</b> (new)	2	New	Ensures that the GE TM2500-G4 is fired exclusively on pipeline-quality natural gas as well as outlines the maximum sulfur content allowed for the natural gas.
<b>AQ-125</b> (new)	3	New	Outlines the maximum heat input rate per hour of the GE TM2500-G4
<b>AQ-126</b> (new)	4	New	Outlines the maximum heat input per quarter of the GE TM2500-G4
<b>AQ-127</b> (new)	5	New	Outlines the maximum heat input per year of the GE TM2500-G4

<b>CEC Condition of Certification Numbering</b>	<b>Air District Permit Numbering</b>	<b>Proposed Modification</b>	<b>Description of the Condition</b>
<b>AQ-128</b> (new)	6	New	Outlines the maximum number of hours of operation of the GE TM2500-G4 per quarter
<b>AQ-129</b> (new)	7	New	Outlines the maximum number of hours of operation of the GE TM2500-G4 per year
<b>AQ-130</b> (new)	8	New	Requires GE TM2500 to have a properly operated and maintained SCR system as well as carbon monoxide oxidation catalyst
<b>AQ-131</b> (new)	9	New	Requires CEMS to operate at all times of GE TM2500-G4 operation
<b>AQ-132</b> (new)	10	New	Outlines the definition of a startup for the GE TM2500-G4
<b>AQ-133</b> (new)	11	New	Outlines the definition of a shutdown for the GE TM2500-G4
<b>AQ-134</b> (new)	12	New	Outlines the maximum number of startups for the GE TM2500-G4 per day, per quarter, and per year
<b>AQ-135</b> (new)	13	New	Outlines the maximum number of shutdowns for the GE TM2500-G4 per day, per quarter, and per year
<b>AQ-136</b> (new)	14	New	Requires the Project Owner to comply with SO <sub>2</sub> allowance regulation as seen in 40 CFR 72.9(c)(1)
<b>AQ-28</b> (existing)	15	None	Existing COC <b>AQ-28</b> covers the requirements of District permit Condition 15 for the GE TM2500-G4.
<b>AQ-137</b> (new)	16	New	Outlines the necessary operation and NO <sub>x</sub> and CO emissions data that needs to

<b>CEC Condition of Certification Numbering</b>	<b>Air District Permit Numbering</b>	<b>Proposed Modification</b>	<b>Description of the Condition</b>
			be recorded on a daily basis regarding the GE TM2500-G4
<b>AQ-138</b> (new)	17	New	Describes the necessary recordkeeping requirements of VOC, PM10, and SOx emissions for the GE TM2500-G4
<b>AQ-139</b> (new)	18	New	Requires the Project Owner to comply with the continuous emission monitoring (CEM) requirements set by 40 CFR Part 60 and 40 CFR Part 75
<b>AQ-140</b> (new)	19	New	Requires the Project Owner to submit all necessary reports to the air district.
<b>AQ-35</b> (existing)	20	None	Existing COC <b>AQ-35</b> covers the requirements of District permit Condition 20 for the GE TM2500-G4.
<b>AQ-37</b> (existing)	21	None	Existing COC <b>AQ-37</b> covers the requirements of District permit Condition 21 for the GE TM2500-G4.
<b>AQ-34</b> (existing)	22	None	Existing COC <b>AQ-34</b> covers the requirements of District permit Condition 22 for the GE TM2500-G4.
<b>AQ-36</b> (existing)	23	None	Existing COC <b>AQ-36</b> covers the requirements of District permit Condition 23 for the GE TM2500-G4.
<b>AQ-38</b> (existing)	24	None	Existing COC <b>AQ-38</b> covers the requirements of District permit Condition 24 for the GE TM2500-G4.
<b>AQ-39</b> (existing)	25	None	Existing COC <b>AQ-39</b> covers the requirements of District permit Condition 25 for the GE TM2500-G4.

<b>CEC Condition of Certification Numbering</b>	<b>Air District Permit Numbering</b>	<b>Proposed Modification</b>	<b>Description of the Condition</b>
<b>AQ-40</b> (existing)	26	None	Existing COC <b>AQ-40</b> covers the requirements of District permit Condition 26 for the GE TM2500-G4.
<b>AQ-41</b> (existing)	27	None	Existing COC <b>AQ-41</b> covers the requirements of District permit Condition 27 for the GE TM2500-G4.
<b>AQ-42</b> (existing)	28	None	Existing COC <b>AQ-42</b> (parts b, c, and d) covers the requirements of District permit Condition 28 for the GE TM2500-G4.
<b>AQ-11</b> (existing)	29	None	Existing COC <b>AQ-11</b> covers the requirements of District permit Condition 29 for the GE TM2500-G4.
<b>AQ-141</b> (new)	30	New	Requires the Project Owner to conduct source testing on the GE TM2500-G4 turbines
<b>AQ-142</b> (new)	31	New	Outlines the required data that needs to be tested for GE TM2500-G4 turbines
<b>AQ-143</b> (new)	32	New	Requires the Project Owner to submit source testing protocol to the District 30 days prior to scheduled test date
<b>AQ-144</b> (new)	33	New	Requires an annual relative accuracy test audit (RATA) for CEMS accuracy
<b>AQ-145</b> (new)	34	New	Outlines emission concentration limits and hourly emission limits during normal operation of the GE TM2500-G4
<b>AQ-146</b> (new)	35	New	Outlines emission limits during startup or shutdown of the GE TM2500-G4

<b>CEC Condition of Certification Numbering</b>	<b>Air District Permit Numbering</b>	<b>Proposed Modification</b>	<b>Description of the Condition</b>
<b>AQ-147</b> (new)	36	New	Outlines quarterly emission limits of the GE TM2500-G4
<b>AQ-148</b> (new)	37	New	Outlines annual emission limits of the GE TM2500-G4
<b>AQ-149</b> (new)	38	New	Outlines the facility-wide quarterly and annual emission limits
<b>AQ-47</b> (existing)	39	None	Existing COC <b>AQ-47</b> covers the requirements of District permit Condition 39 for the GE TM2500-G4.
<b>AQ-48</b> (existing)	40	None	Existing COC <b>AQ-48</b> covers the requirements of District permit Condition 40 for the GE TM2500-G4.
<b>AQ-49</b> (existing)	41	None	Existing COC <b>AQ-49</b> covers the requirements of District permit Condition 41 for the GE TM2500-G4.
<b>AQ-50</b> (existing)	42	None	Existing COC <b>AQ-50</b> covers the requirements of District permit Condition 42 for the GE TM2500-G4.
<b>AQ-51</b> (existing)	43	None	Existing COC <b>AQ-51</b> covers the requirements of District permit Condition 43 for the GE TM2500-G4.
<b>AQ-51</b> (existing)	44	None	Existing COC <b>AQ-51</b> covers the requirements of District permit Condition 44 for the GE TM2500-G4.
<b>AQ-51</b> (existing)	45	None	Existing COC <b>AQ-51</b> covers the requirements of District permit Condition 45 for the GE TM2500-G4.
<b>AQ-112</b> (existing)	46	None	Existing COC <b>AQ-112</b> covers the requirements of District

<b>CEC Condition of Certification Numbering</b>	<b>Air District Permit Numbering</b>	<b>Proposed Modification</b>	<b>Description of the Condition</b>
			permit Condition 46 for the GE TM2500-G4.
<b>AQ-114</b> (existing)	47	None	Existing COC <b>AQ-114</b> covers the requirements of District permit Condition 47 for the GE TM2500-G4.
<b>AQ-115</b> (existing)	48	None	Existing COC <b>AQ-115</b> covers the requirements of District permit Condition 48 for the GE TM2500-G4.
<b>AQ-116</b> (existing)	49	None	Existing COC <b>AQ-116</b> covers the requirements of District permit Condition 49 for the GE TM2500-G4.
<b>AQ-117</b> (existing)	50	None	Existing COC <b>AQ-117</b> covers the requirements of District permit Condition 50 for the GE TM2500-G4.
<b>AQ-118</b> (existing)	51	None	Existing COC <b>AQ-118</b> covers the requirements of District permit Condition 51 for the GE TM2500-G4.
<b>AQ-119</b> (existing)	52	None	Existing COC <b>AQ-119</b> covers the requirements of District permit Condition 52 for the GE TM2500-G4.
<b>AQ-120</b> (existing)	53	None	Existing COC <b>AQ-120</b> covers the requirements of District permit Condition 53 for the GE TM2500-G4.
<b>AQ-121</b> (existing)	54	None	Existing COC <b>AQ-121</b> covers the requirements of District permit Condition 54 for the GE TM2500-G4.
<b>AQ-122</b> (existing)	55	None	Existing COC <b>AQ-122</b> covers the requirements of District permit Condition 55 for the GE TM2500-G4.

<b>CEC Condition of Certification Numbering</b>	<b>Air District Permit Numbering</b>	<b>Proposed Modification</b>	<b>Description of the Condition</b>
<b>AQ-150</b> (new)	56	New	Requires the Project Owner to defend and indemnify the PCAPCD against third party challenges.

**The following new conditions of certification apply to each of the two General Electric TM2500-G4 Combustion Turbine Generators unless indicated otherwise. These conditions already apply to the facility through the PCAPCD's permit:**

**AQ-123 The General Electric TM2500-G4 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.**

**Verification: The Project owner shall make the power plant site and appropriate records available for inspection upon reasonable notice from the PCAPCD or CPM.**

**AQ-124 The Project Owner shall fire the General Electric TM2500-G4 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 GE TM2500-G4 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.**

**Verification: The Project owner shall submit to the CPM the most recent PG&E monthly sulfur data or fuel testing analysis performed as part of the Quarterly Air Quality Report required in Conditions of Certification AQ-SC6.**

**AQ-125**      **The Project Owner shall not operate the General Electric TM2500-G4 unit such that the heat input rate to the CTG exceeds 366.1 MMBtu (HHV) per hour.**

**Verification: The Project owner shall include all necessary operational data to demonstrate compliance with the limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-126**      **The Project Owner shall not operate the General Electric TM2500-G4 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 AQ-132 and AQ-133.**

**Verification: The Project owner shall include all necessary operational data to demonstrate compliance with the limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-127**      **The Project Owner shall not operate the General Electric TM2500-G4 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 AQ-132 and AQ-133.**

**Verification: The Project owner shall include all necessary operational data to demonstrate compliance with the limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-128**      **The Project Owner shall not operate the General Electric TM2500-G4 such that the hours of operation exceed 550 hours per calendar quarter.**

**Verification: The Project owner shall include all necessary operational data to demonstrate compliance with the limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-129**      **The Project Owner shall not operate the General Electric TM2500-G4 such that the hours of operation exceed 2,200 hours per year.**

**Verification: The Project owner shall include all necessary operational data to demonstrate compliance with the limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-130 The Project Owner shall ensure that the General Electric TM2500-G4 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.**

**Verification: The Project owner shall include the operational status of the SCR and oxidation catalyst during all hours of operation as part of the Quarterly Air Quality Report required by Condition of Certification AQ-SC6.**

**AQ-131 The Project Owner 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 General Electric TM2500-G4 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, the Project Owner 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.**

**The Project Owner 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. The Project Owner 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 NOx and CO, corrected to 15% O2 (corrected), and the mass emission rates of NOx and CO for the CTG.**

**Verification: The Project owner shall provide all necessary operational data to demonstrate compliance with this Condition as part of the Quarterly Air Quality Report required by Condition of Certification AQ-SC6.**

**AQ-132 Startup is defined as the lesser of the following:**

- a. The period of time from the General Electric TM2500-G4 fuel flow initiation until the General Electric TM2500-G4 achieves compliance with the NOx and CO emission concentration limits in Condition AQ-145 for two consecutive minutes; or,**
- b. The first 30 minutes of continuous fuel flow to the General Electric TM2500-G4 after fuel flow is initiated.**

**Verification: The Project Owner shall include all necessary operational data to demonstrate compliance with the limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-133 Shutdown is defined as the lesser of the following:**

- a. The period of time beginning from non-compliance with the NOx or CO concentration emission limits, associated with the initiation of the General Electric TM2500-G4 shutdown sequence, until termination of fuel flow to the General Electric TM2500-G4; or,**
- b. The first 15-minute period immediately prior to termination of fuel flow to the General Electric TM2500-G4.**

**Verification: The Project Owner shall include all necessary operational data to demonstrate compliance with the limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6**

**AQ-134**      **The Project Owner shall limit the total General Electric TM2500-G4 startup events to no more than 6 startups per day, 190 startups per calendar quarter, and 760 startups per calendar year.**

**Verification: The Project Owner shall include all necessary operational data to demonstrate compliance with the limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-135**      **The Project Owner shall limit the total General Electric TM2500-G4 shutdown events to no more than 6 shutdowns per day, 190 shutdowns per calendar quarter, and 760 shutdowns per calendar year.**

**Verification: The Project Owner shall include all necessary operational data to demonstrate compliance with the limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-136**      **The Project Owner shall ensure that the Roseville Energy Park complies with the requirements to hold SO<sub>2</sub> allowances in 40 CFR 72.9(c)(1).**

**Verification: The Project owner shall include all necessary operational data to demonstrate compliance with the limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-137**      **For each calendar day, the Project Owner shall calculate and record the total firing hours, the average hourly fuel flow rates, turbine water injection rates, General Electric TM2500-G4 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 NOx and CO emission concentrations, and NOx and CO mass emission rates of the CTG;
- d. For each calendar month, the cumulative total NOx 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 the Roseville Energy Park.

**Verification: The Project owner shall submit to the CPM all data identified in this condition as part of the Quarterly Air Quality Report required by Condition of Certification AQ-SC6.**

**AQ-138 The Project Owner shall calculate and record, on a daily basis, the volatile organic compound (VOC) mass emissions, fine particulate matter (PM10) mass emissions (including condensable particulate matter), and sulfur oxides (SOx) mass emissions (as SO<sub>2</sub>) from the General Electric TM2500-G4 . The Project Owner shall use the actual heat input rates measured pursuant to AQ-131, actual gas turbine start-up times, actual gas turbine shutdown times, and District-approved emission factors developed pursuant to source testing under Condition AQ-141xx to calculate these emissions. The Project owner shall present the calculated emissions in the following format:**

- a. For each calendar day, VOC, PM10, and SOx emissions, summarized for each CTG;
- b. On a monthly basis, the cumulative total VOC, PM10, and SOx mass emissions, for each calendar quarter and calendar year for all CTGs and HRSG duct burners operated at Roseville Energy Park.

**Verification: The Project owner shall include all necessary operational data to demonstrate compliance with this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-139 The Project Owner shall ensure compliance with the continuous emission monitoring requirements of 40 CFR Part 60 and 40 CFR Part 75.**

**Verification: The Project owner shall include all necessary operational data to demonstrate compliance with the limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-140 The Project Owner 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.**

**Verification: The Project Owner shall include all applicable documents and reports that are outlined in this condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-141 On an annual basis, and within fourteen (14) months of the previous source test, the Project Owner shall conduct District approved source testing on the General Electric TM2500-G4 to determine compliance with the emission limitations specified in AQ-145. 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.**

**Verification: The Project owner shall submit to the CPM source testing protocols 30 days prior to the planned source test date. The Project owner shall submit to the CPM the results of a source test no less than 60 days following the actual source test date.**

**AQ-142 The Project Owner 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. The Project**

**Owner shall submit the source test results to the District within 60 days of conducting the tests.**

**Verification: The Project owner shall submit to the CPM the results of a source test no less than 60 days following the actual source test date.**

**AQ-143 Before the execution of the source tests, the Project Owner 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 the Project Owner of any necessary modifications to the plan; otherwise, the plan shall be deemed approved. The Project Owner shall incorporate the District's comments into the test plan.**

**Verification: The Project owner shall submit to the CPM source testing protocols 30 days prior to the planned source test date.**

**AQ-144 On an annual basis, the Project Owner 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. The Project Owner shall submit the RATA results to the District within 60 days of conducting the audit.**

**Verification: The Project owner shall submit the RATA results to the CPM within 60 days of conducting the audit .**

**AQ-145 The Project Owner shall ensure that the General Electric TM2500-G4 complies with emission limits established in (a) through (g) below. The limits in (a) through (e) do not apply during a GE TM2500-G4 startup or shutdown, as defined in AQ-132 and AQ-133 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.**

**Verification: The Project owner shall include all necessary emissions data to demonstrate compliance with the emission limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-146 The Project Owner shall ensure that the mass emissions at the exhaust of the General Electric TM25000-G4 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.**

**Verification: The Project owner shall include all necessary emissions data to demonstrate compliance with the emission limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-147 The Project Owner shall ensure that the quarterly emissions from the General Electric TM2500-G4, 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, PM10, and SOx shall be demonstrated by using the heat input-based emission factors established in AQ-141 multiplied by the General Electric TM2500-G4's quarterly fuel consumption or heat input:**

**a. NOx 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. PM10 mass emissions at the exhaust of the CTG shall not exceed 2,770 pounds per quarter;**

**e. SOx mass emissions (calculated as SO<sub>2</sub>) at the exhaust of the CTG shall not exceed 277 pounds per quarter.**

**Verification: The Project owner shall include all necessary emissions data to demonstrate compliance with the emission limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-148 The Project Owner shall ensure that the annual emissions from the General Electric TM2500-G4, 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, PM10, and SOx shall be demonstrated by using the heat input-based emission factors established in AQ-141 multiplied by the General Electric TM2500-G4's annual fuel consumption or heat input:**

**a. NOx 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.**

**Verification: The Project owner shall include all necessary emissions data to demonstrate compliance with the emission limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-149 The Project Owner 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 AQ-141 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**

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

**Verification: The Project owner shall include all necessary emissions data to demonstrate compliance with the emission limits provided in this Condition as part of the Quarterly Air Quality Report required in Condition of Certification AQ-SC6.**

**AQ-150**      **The applicant/Permittee has an obligation to defend and indemnify the PCAPCD against third party challenges. (Basis: Rule 411)**

**Verification: None.**