

**DOCKETED**

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August 27, 2018

Mr. Anwar Ali  
Compliance Project Manager  
California Energy Commission  
1516 9<sup>th</sup> Street (MS-2000)  
Sacramento, CA 95814-5512

**SUBJECT: TURLOCK IRRIGATION DISTRICT ALMOND 2 POWER PLANT (09-AFC-2C)  
CONDITION COM-7, ANNUAL COMPLIANCE REPORT #6  
REPORTING PERIOD: August 1, 2017 – JULY 31, 2017**

Dear Mr. Ali:

Condition of Certification COM-7 for the Turlock Irrigation District (TID) Almond 2 Power Plant (A2PP) requires that an Annual Compliance Report (ACR) be submitted providing information on the plant's operation for the reporting period. The attached ACR covers the A2PP operating period from August 1, 2017 through July 31, 2018.

The ACR includes a summary of the plant's current operating status, an updated compliance matrix, and other information, as required by Condition COM-7. In addition, the following items are provided as attachments or explained within the text of the ACR.

- Designated Biologist's summary pursuant to Condition BIO-2;
- Hazardous Materials List pursuant to Condition HAZ-1;
- Required statements regarding updated certifications in the Operations Security Plan pursuant to Condition HAZ-7;
- Summary of monitoring and maintenance activities associated with A2PP stormwater facilities pursuant to Condition Soil & Water-2;
- A Water Use Summary pursuant to Condition Soil & Water-4;
- Any wastewater quality monitoring reports required by the City of Ceres and/or corrective actions taken pursuant to Condition Soil & Water-5;
- Any transmission line related complaints pursuant to TLSN-2 (required for the first five years of operation only);

- A summary of transmission line inspection reports and any fire prevention activities carried out along the transmission line right-of-way pursuant to Condition TLSN-4 (required for the first five years of operation only);
- A status report on surface treatment maintenance pursuant to Condition VIS-3;
- The volume of waste generated during the year, waste management methods used, the waste management methods used compared to those in the Operations Waste Management Plan, and an update to the Operations Waste Management Plan, if necessary, as required by Condition WASTE-6;
- A status report on the continuing functionality of the automatic portable defibrillator (AED) and training program, as required by Condition WORKER SAFETY-5
- A review of on-site contingency plan and any recommended changes to bring the plan up to date, as required by Condition COM-12.

Should you have any questions regarding this report, please feel free to contact me at (209) 883-3451.

Sincerely,



George A Davies IV  
Combustion Turbine Department Manager

cc: Susan Strachan, Strachan Consulting, LLC  
File

# **Annual Compliance Report #6 For the Almond 2 Power Plant**

**Prepared and Submitted by:**



**August 2018**

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## Section 1.0 Introduction

Pursuant to California Energy Commission (CEC) Condition of Certification COM-7 for the Almond 2 Power Plant (A2PP), the Turlock Irrigation District (TID) is required to submit an Annual Compliance Report (ACR) to the CEC. The purpose of the ACR is to document the A2PP's compliance activities related to its operations. The A2PP commenced commercial operation on July 13, 2012. This ACR #6 covers the reporting period from August 1, 2017 - July 31, 2018.<sup>1</sup>

This ACR includes the information requirements specified in Condition of Certification COM-7. In addition, it addresses the Conditions of Certification which have annual report requirements. These conditions are: BIO-2, HAZ-1, HAZ-7, SOIL & WATER-2, SOIL & WATER-4, SOIL & WATER-5, TLSN-2, TLSN-4, VIS-3, WASTE-6, WORKER SAFETY-5, and COM-12.

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<sup>1</sup> Consistent with TID's agreement with the A2PP CEC CPM (email correspondence between Bruce Boyer, CEC CPM and Susan Strachan, TID consultant dated July 31, 2013), the reporting period for the Annual Compliance Reports is for the period from August 1<sup>st</sup> through July 31<sup>st</sup> of each year, with the ACR filing due on August 31<sup>st</sup>.

## **Section 2.0 – Condition COM-7 ACR Reporting Requirements**

The requirements for the ACR in Condition COM-7 are listed below:

- An updated compliance matrix showing the status of all Conditions of Certification;
- A summary of the current project operating status and an explanation of any significant changes to facility operations during the year;
- Documents required by specific conditions to be submitted along with the ACR;
- A cumulative listing of any approved changes to conditions of certification;
- An explanation for any submittal deadlines that were missed, accompanied by an estimate of when the information will be provided;
- A listing of filings submitted to, or permits issued by, other government agencies during the year;
- A projection of project compliance activities scheduled during the next year;
- A listing of the year's additions to the on-site compliance file;
- An evaluation of the on-site contingency plan for unplanned facility closure, including any suggestions necessary for bringing the plan up to date;
- A listing of complaints, notices of violation, official warnings, and citations received during the year, a description of the resolution of any resolved matters, and the status of any unresolved matters.

Information for each of these requirements and accompanying documentation is contained in Section 3.0 of the ACR and the Appendices.

## **Section 3.0 Annual Compliance Report Requirements**

This section addresses the information required to be included in the A2PP ACR.

### **3.1 Compliance Matrix**

Condition COM-7 item 1 requires that an updated compliance matrix be included in the ACR. The updated matrix can be found in Appendix A. This matrix addresses compliance activities from August 1, 2017 through July 31, 2018.

### **3.2 Summary of Operating Status**

This section of the ACR consists of a summary of the A2PP operations along with an explanation of any significant changes to facility operations during the reporting period. Included in Appendix B is a summary of the operating status of the A2PP during the August 1, 2017 through July 31, 2018 reporting period. This summary includes the total number of hours each of the three combustion turbines operated each month of the reporting period. In addition, Appendix B includes the total kilowatt hours generated by the A2PP each month. There were no significant changes to facility operations during this reporting period.

### **3.3 Documents Required by Specific Conditions**

There are specific permit conditions required to be addressed in the ACR. These conditions are BIO-2, HAZ-1, HAZ-7, SOIL & WATER-2, SOIL & WATER-4, SOIL & WATER-5, TLSN-2, TLSN-4, VIS-3, WASTE-6, and WORKER SAFETY-5. Compliance with each of these conditions is discussed below.

#### **3.3.1 BIO-2**

Condition of Certification BIO-2 requires that the Designated Biologist be available for monitoring and reporting if actions may affect biological resources during plant operations. The Designated Biologist was available during the reporting period; however, there were no reportable activities during this time.

#### **3.3.2 HAZ-1**

Pursuant to Condition of Certification HAZ-1, included in Appendix C is a list of the hazardous materials contained at the A2PP.



### **3.3.3 HAZ-7**

Condition of Certification HAZ-7 required that TID prepare an Operations Security Plan. As part of this plan, TID provided statements certifying that background investigations had been conducted on all current TID project personnel. A statement was received by TID certifying that the contractor has conducted appropriate vendor background investigations on contractors who regularly visit the project site. Lastly, the plan includes statements received by TID from hazardous materials transport vendors regarding compliance with 49 CFR 172.802 and that they have conducted employee background investigations in accordance with 49 CFR Part 1572, subparts A and B.

As required by Condition HAZ-7, TID has reviewed the A2PP Operations Security Plan. As a result of that review, TID confirms that all current TID A2PP project employee background investigations have been performed and updated certification statements have been appended to the Operations Security Plan. TID further confirms that all appropriate A2PP vendors have represented to TID that employee background investigations have been performed and updated certification statements have been appended to the Operations Security Plan. In addition, appropriate A2PP hazardous materials transport vendor certifications for security plans and vendor employee background investigations received by TID have been included in the plan.

Finally, TID believes and is also informed that all of these background checks and investigations have been conducted consistent with applicable federal, state and local laws, ordinances, regulations, and standards, including, but not limited to, applicable employment and privacy laws and regulations.

### **3.3.4 SOIL & WATER-2**

Condition Soil & Water-2 requires TID to provide information on the results of monitoring and maintenance activities associated with drainage, erosion, and sedimentation control in the ACR. During the August 1, 2017 through July 31, 2018 reporting period, the A2PP stormwater system was routinely controlled for weeds and other debris.

### **3.3.5 SOIL & WATER-4**

As required by Condition SOIL & WATER-4, an annual Water Use Summary for the reporting period is provided in Appendix D. As indicated in the summary, A2PP water use did not exceed the annual limit of 514 acre-feet per year specified in the Condition.

### **3.3.6 SOIL & WATER-5**

During the reporting period, the A2PP did not exceed the maximum wastewater discharge limit of 560,000 gallons a day. In addition, no wastewater quality monitoring reports were required by the City of Ceres and no violations were issued. Lastly, there have been no suspensions, nullifications, or amendments to the Water Services Agreement between TID and the City of Ceres.

### **3.3.7 TLSN - 2**

As required by Condition TLSN-2, during the first five years of operation, TID is required to summarize all project related transmission line complaints in the Annual Compliance Report.

No complaints were received during the reporting period.

### **3.3.8 TLSN-4**

As required by Condition TLSN-4, during the first five years of operation, TID is required to provide a summary of inspection results and any fire prevention activities carried out along the transmission line right-of-way.

Transmission line right-of-way inspections are conducted by TID's Line Department. Inspections were conducted for the approximately 1,000-foot transmission line from A2PP to the Grayson Substation. The inspections did not identify any area along the right-of-way requiring modification or repair. No additional fire prevention activities were required beyond those incorporated into the project's design and operations.

While pursuant to TSLN-4, this is the fifth and final year of ACR reporting, the District has its own inspection and fire protection programs that have been implemented and will be implemented for the life of the project consistent with both District policies and applicable LORS.

### **3.3.9 VIS-3**

Condition VIS-3 requires that the Annual Compliance Report include a status report on the A2PP surface treatment maintenance. A status report addressing the items required to be discussed in the ACR is included in *italics* below:

- The condition of the surfaces of all structures and buildings at the end of the reporting period.

*As of July 31, 2018, the surfaces of all structures and buildings were in good condition.*

- Maintenance activities that occurred during the reporting year.

*No significant maintenance activities occurred during the Reporting Year.*

- Schedule of maintenance activities for the next year.

*Other than routine touch up work, no significant coating maintenance activities are planned for the coming year.*

### **3.3.10 WASTE-6**

Condition WASTE-6 requires that TID document the following in the ACR:

- Actual volume of wastes generated
- Waste management methods used during the year
- A comparison of the actual waste generation and waste management methods used to those identified in the Operations Waste Management Plan, and
- An update to the Operations Waste Management Plan, as necessary, to address current waste generation and management practices

During the reporting period, the actual operational volume of wastes generated was consistent with the volumes identified in the Operations Waste Management Plan. In addition, the waste management methods used were consistent with the methods identified in the plan. Given this, no updates to the Operations Waste Management Plan are required at this time. The waste quantities for the reporting period are summarized in Appendix E.

### **3.3.11 WORKER SAFETY-5**

Condition Worker Safety-5 requires that TID provide status reports on the continuing functionality of the automatic portable defibrillator (AED) and updates on the training program. During the August 1, 2017 through July 31, 2018 reporting period, the A2PP AED maintained its functionality and all A2PP personnel were trained in its use.

## **3.4 Cumulative Listing of Post-Certification Changes**

The ACR must include a cumulative list of post-certification changes approved by the Energy Commission or cleared by the CPM.

### **Amendment 1**

Amendment 1 to the A2PP CEC license to modify Conditions AQ-41 and AQ-47 was submitted on January 3, 2013. The amendment petition to the CEC was resubmitted

on February 22, 2013, to include additional information requested by the CEC Staff. On December 19, 2012, TID had also submitted a request to the San Joaquin Valley Air Pollution Control District to modify the conditions.

TID requested that Condition AQ-41 be revised to clarify that the required start-up and shutdown testing can be conducted on a single representative turbine, rather than all three turbines. TID's proposed change to Condition AQ-47 made the Condition consistent with requirements under 40 CFR Part 75 and 40 CFR Part 60.

The San Joaquin Valley Air Pollution Control District approved TID's proposed changes to AQ-41 and AQ-47 on May 22, 2013.

The CEC approved TID's amendment petition on March 12, 2014. In addition to the requested modifications to Conditions AQ-41 and AQ-47, the CEC also deleted the air quality conditions pertaining to construction and commissioning since they were no longer applicable.

### **3.5 Submittal Deadlines Missed**

No submittal deadlines missed during the reporting period.

### **3.6 Filings Made To or Permits Issued by Other Government Agencies**

Appendix F contains a list of filings made to other government agencies during the reporting period.

Appendix G includes the permits issued by other government agencies during the reporting period.

### **3.7 Scheduled Compliance Activities**

Included in Appendix H is a list of the scheduled compliance activities for the next reporting period.

### **3.8 Additions to the On-Site Compliance File**

All compliance submittals made during the reporting period have been added to the on-site compliance files. The Compliance Matrix in Appendix A identifies the submittals added to the compliance files during the reporting period.

### **3.9 On-Site Contingency Plan**

Condition COM-12 requires that the Unplanned Temporary Closure/On-Site Contingency Plan be reviewed. Any recommended changes to bring the plan up to date are to be approved by the Compliance Project Manager. In addition, the status of insurance coverage and major equipment warranties must be updated in the Annual Compliance Report.

There are no changes to the Temporary Closure/On-Site Contingency Plan. There are no changes to the plant's insurance coverage from what is included in the plan. The equipment warranty with General Electric expired June 30, 2014.

### **3.10 Listing of Complaints, Notices of Violation, Official Warnings, & Citation**

One notice of violation (NOV) was issued to TID by the San Joaquin Valley Air Pollution Control District (SJVAPCD) during the reporting period. The notice was issued because of the 3-hr rolling average of CO emissions exceeded the 4.0 ppm @ 15% O<sub>2</sub> and 4.89 lb/hr limits on A2PP Unit 3. TID submitted a Title V Deviation/Breakdown Report to the SJVAPCD explaining the failure. Copies of the notices and TID's responses thereto are included in Appendix I. The matter was resolved by mutual agreement with the SJVAPCD.

APPENDIX A  
Compliance Matrix

**Almond 2 Power Plant Project CEC Operations Compliance Matrix**

Mobilization Start Date 02/25/11

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Resp. Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-SC6	All	The project owner shall submit to the CPM for review and approval any modification proposed by the project owner to any project air permit. The project owner shall submit to the CPM any modification to any permit proposed by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, for the project.	1) Submit any proposed air permit modification to the CPM within five working days of either: a) submittal by the project owner to an agency, or b) receipt of proposed modifications from an agency. 2) Submit all modified air permits to the CPM within 15 days of receipt.	N/A	1) Within 5d of submittal or receipt; 2) Within 15d of receipt			1/07/13 4/15/13 6/17/13 6/20/13 7/2/13 3/10/14 5/8/14		Submitted	1/07/13 submitted to Bruce Boyer Title V Modification due to changes to AQ-41 and AQ-47. 4/15/13 submitted to Bruce Boyer SJVAPCD proposed ATC/Certification of Conformity. 6/17/13 submitted final amended ATCs and Title V Permit to Operate. 6/20/13 submitted Title V operating permit (did not include amendment ATCs). 7/2/13 submitted final Title V Operating Permit incorporating Amended ATCs. 3/10/2014 - Submitted to Bruce Boyer Title V Permit Renewal - Notice of Preliminary Decision. 5/8/2014 - Submitted to Bruce Boyer Title V Permit Renewal - Notice of Final Action
AQ-SC8	Ops	The project owner shall submit to the CPM quarterly operation reports that include operational and emissions information as necessary to demonstrate compliance with the conditions of certification. The quarterly operation report shall specifically note or highlight incidences of noncompliance.	The project owner shall submit quarterly operation reports to the CPM and APCO no later than 30 days following the end of each calendar quarter.	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	This information shall be maintained on site for a minimum of five years and shall be provided to the CPM and District personnel upon request.
AQ-2	All	This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule]	No verification necessary	N/A						N/A	
AQ-4	Ops	The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100]	1) Notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. 2) A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	1) As soon as reasonably possible, no later than 1 hour after detection; 2) In Quarterly reports			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-5	Ops	The District shall be notified in writing within ten 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. [District Rule 1100]	1) The District shall be notified in writing within ten days following the correction of any breakdown condition. 2) A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	1) Within 10 days following correction of breakdown; 2) in quarterly reports			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-6	Ops	No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-7	Constr/Ops	The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-8	Ops	Particulate matter emissions from the gas turbine system shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]	The project owner shall submit the results of source tests to both the District and CPM in accordance with AQ-46.	SJVAPCD				8/17/12 8/28/13 8/25/14 9/4/15 8/2/16 8/10/17	09/24/12	Submitted	Source test results for the 2012 source test were submitted to Bruce Boyer (CEC) on 8/17/12 and rec'd on 8/20/12. Source test results were approved by CEC via email from Bruce Boyer on 9/24/12. The 2013 results were submitted to CEC on 8/28/13. The 2014 results were submitted to CEC on 8/25/14. The 2015 results were submitted to CEC on 9/4/15. The 2016 results were submitted to CEC on 8/2/16. The 2017 results were submitted to CEC on 8/10/17.
AQ-9	Ops	No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-10	Ops	APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the required monitoring devices to ensure that such devices are functioning properly. [District Rule 1080]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	

**Almond 2 Power Plant Project CEC Operations Compliance Matrix**

Mobilization Start Date		02/25/11									
Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Resp. Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-13	Startup/Ops	Emission rates from the gas turbine system during the commissioning period shall not exceed any of the following limits: NOx (as NO2) - 40.40 lb/hr and 969.6 lb/day; VOC (as CH4) - 8.41 lb/hr and 201.8 lb/day; CO - 40.00 lb/hr and 704.6 lb/day; PM10 - 2.50 lb/hr and 60.0 lb/day; or SOx (as SO2) - 1.56 lb/hr and 37.4 lb/day. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/29/12 11/16/12 1/18/13 4/16/13 7/22/13		Submitted Deleted	Q2 2012 report was submitted to Bruce Boyer on 11/16/12. Q3 2012 report was submitted to Bruce Boyer on 10/29/13. Q4 2012 report was submitted to Bruce Boyer on 1/18/13. Q1 2013 report was submitted to Bruce Boyer on 4/16/13. Q2 2013 report was submitted to Bruce Boyer on 7/22/13. Condition deleted per Order No. 14-0312-4 on 3/12/2014.
AQ-15	Startup/Ops	The total mass emissions of NOx, VOC, CO, PM10 and SOx that are emitted during the commissioning period shall accrue towards the quarterly emission limits. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/29/12 11/16/12 1/18/13 4/16/13 7/22/13		Submitted Deleted	Q2 2012 report was submitted to Bruce Boyer on 11/16/12. Q3 2012 report was submitted to Bruce Boyer on 10/29/13. Q4 2012 report was submitted to Bruce Boyer on 1/18/13. Q1 2013 report was submitted to Bruce Boyer on 4/16/13. Q2 2013 report was submitted to Bruce Boyer on 7/22/13. Condition deleted per Order No. 14-0312-4 on 3/12/2014.
AQ-16	Startup/Ops	During commissioning period, the owner or operator shall keep records of the natural gas fuel combusted in the gas turbine system on an hourly and daily basis. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/29/12 11/16/12 1/18/13 4/16/13 7/22/13		Submitted Deleted	Q2 2012 report was submitted to Bruce Boyer on 11/16/12. Q3 2012 report was submitted to Bruce Boyer on 10/29/13. Q4 2012 report was submitted to Bruce Boyer on 1/18/13. Q1 2013 report was submitted to Bruce Boyer on 4/16/13. Q2 2013 report was submitted to Bruce Boyer on 7/22/13. Condition deleted per Order No. 14-0312-4 on 3/12/2014.
AQ-17	Ops	Startup of this gas turbine system shall not exceed one hour per event. [District Rules 2201 and 4703]	The project owner shall submit to the District and CPM the startup event duration data demonstrating compliance with this condition as part of the quarterly operation report (AQ-SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-18	Ops	Shutdown of this gas turbine system shall not exceed one hour per event. [District Rules 2201 and 4703]	The project owner shall submit to the District and CPM the shutdown event duration data demonstrating compliance with this condition as part of the quarterly operation report (AQ-SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-19 (Part 2 of 2)	Ops	During all types of operation, including startup and shutdown periods, ammonia injection into the SCR system shall occur once the minimum temperature of 540°F at the catalyst face has been reached to ensure NOx emission reductions can occur with a reasonable level of ammonia slip. [District Rule 2201]	2) The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-20	Ops	The District may administratively modify the temperature as necessary following any replacement of the SCR catalyst material. [District Rule 2201]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-21	Ops	During start-up or shutdown period, the emissions shall not exceed any of the following limits: NOx (as NO2) - 25.00 lb/hr; CO - 40.00 lb/hr; VOC (as methane) - 2.00 lb/hr; PM10 - 2.50 lb/hr; SOx (as SO2) - 1.56 lb/hr; or NH3 - 7.44 lb/hr. [District Rules 2201 and 4703]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-22	Ops	Start-up is defined as the period of time during which a unit is brought from a shutdown status to its operating temperature and pressure, including the time required by the unit's emission control system to reach full operation. [District Rule 4703, 3.29]	No verification necessary	N/A						N/A	
AQ-23	Ops	Shutdown is defined as the period of time during which a unit is taken from an operational to a non-operational status ending when the fuel supply to the unit is completely turned off. [District Rule 4703, 3.26]	No verification necessary	N/A						N/A	



**Almond 2 Power Plant Project CEC Operations Compliance Matrix**

Mobilization Start Date 02/25/11

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Resp. Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-24	Ops	The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rule 4703, 5.3.2]	The project owner shall submit to the District and CPM the startup and shutdown event duration data demonstrating compliance with this condition as part of the quarterly operation report (AQ-SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-25	Ops	Except during startup and shutdown periods, emissions from the gas turbine system shall not exceed any of the following limits: NOx (as NO2) - 5.02 lb/hr and 2.5 ppmvd @ 15% O2; CO - 4.89 lb/hr and 4.0 ppmvd @ 15% O2; VOC (as methane) - 1.40 lb/hr and 2.0 ppmvd @ 15% O2; PM10 - 2.50 lb/hr; or SOx (as SO2) - 1.56 lb/hr. NOx (as NO2) emission limits are based on 1-hour rolling average period. All other emission limits are based on 3-hour rolling average period. [District Rules 2201, 4001 and 4703]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-26	Ops	NH3 emissions shall not exceed 10.0 ppmvd @ 15% O2 over a 24-hour rolling average period. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-27	Ops	Each 3-hour rolling average period will be compiled from the three most recent one hour periods. Each one hour period shall commence on the hour. Each one hour period in a twenty-four hour rolling average for ammonia slip will commence on the hour. The twenty-four hour rolling average shall be calculated using the most recent twenty-four one-hour periods. [District Rule 2201]	No verification necessary	N/A						N/A	
AQ-28	Ops	Emissions from the gas turbine system, on days when a startup and/or shutdown occurs, shall not exceed the following limits: NOx (as NO2) - 160.4 lb/day; CO - 187.6 lb/day; VOC - 34.8 lb/day; PM10 60.0 lb/day; SOx (as SO2) - 37.4 lb/day, or NH3 - 178.6 lb/day. Daily emissions shall be compiled for a twenty-four hour period starting and ending at twelve-midnight. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-29	Ops	Emissions from the gas turbine system, on days when a startup and/or shutdown does not occur, shall not exceed the following: NOx (as NO2) - 120.5 lb/day; CO - 117.4 lb/day; VOC - 33.6 lb/day; PM10 - 60.0 lb/day; SOx (as SO2) - 37.4 lb/day, or NH3 - 178.6 lb/day. Daily emissions shall be compiled for a twenty-four hour period starting and ending at twelve-midnight. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-30	Startup/Operations	Gas turbine system shall be fired on PUC-regulated natural gas with a sulfur content of no greater than 1.0 grain of sulfur compounds (as S) per 100 dscf of natural gas. [District Rule 2201 and 40 CFR 60.4330(a)(2)]	The result of the natural gas fuel sulfur monitoring data and other fuel sulfur content source data shall be submitted to the District and CPM in the quarterly operation report (AQ-SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-31	Ops	NOx (as NO2) emissions from this gas turbine system shall not exceed any of the following: 1st quarter: 11,635 lb; 2nd quarter: 11,764 lb; 3rd quarter: 11,894 lb; 4th quarter: 11,894 lb. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-32	Ops	CO emissions from this gas turbine system shall not exceed any of the following: 1st quarter: 12,728 lb; 2nd quarter: 12,869 lb; 3rd quarter: 13,011 lb; 4th quarter: 13,011 lb. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)

**Almond 2 Power Plant Project CEC Operations Compliance Matrix**

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Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Resp. Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-33	Ops	VOC emissions from this gas turbine system shall not exceed any of the following: 1st quarter: 2,794 lb; 2nd quarter: 2,825 lb; 3rd quarter: 2,856 lb; 4th quarter: 2,856 lb. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-34	Ops	NH3 emissions from the SCR system associated with this gas turbine system shall not exceed any of the following: 1st quarter: 15,181 lb; 2nd quarter: 15,349 lb; 3rd quarter: 15,517 lb; 4th quarter: 15,517 lb. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-35	Ops	PM10 emissions from this gas turbine system shall not exceed any of the following: 1st quarter: 5,400 lb; 2nd quarter: 5,461 lb; 3rd quarter: 5,520 lb; 4th quarter: 5,520 lb. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-36	Ops	SOx (as SO2) emissions from the gas turbine system shall not exceed any of the following: 1st quarter: 3,183 lb; 2nd quarter: 3,219 lb; 3rd quarter: 3,255 lb; 4th quarter: 3,255 lb. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-37	Constr/Ops	A water injection system, a selective catalytic reduction (SCR) system and an oxidation catalyst shall serve this gas turbine system. [District Rule 2201]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-38	Constr/Ops	The gas turbine engine and generator lube oil vents shall be equipped with mist eliminators or equivalent technology sufficient to limit the visible emissions from the lube oil vents to not exceed 5% opacity, except for a period not exceeding three minutes in any one hour. [District Rule 2201]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-39	Startup/Ops	Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]	1) The project owner shall submit the proposed source test plan or protocol for the source tests 15 days prior to the proposed source test date to both the District and CPM for approval. 2) The project owner shall notify the District and CPM no later than 30 days prior to the proposed source test date and time.	SJVAPCD	1) 15d prior source test date; 2) no later than 30d prior source test date			5/10/18 5/11/18	5/29/18	Submitted	The 2018 source test notice and protocols were submitted to the SJVAPCD on 5/10/18 and to CPM (CEC) on 5/11/18.
AQ-40	Startup/Ops	Source testing shall be witnessed or authorized by District personnel and samples shall be collected by a California Air Resources Board (CARB) certified testing laboratory or a CARB certified source testing firm. [District Rule 1081]	The project owner shall submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-39.	SJVAPCD	15d prior source test date			5/10/18 5/11/18	5/29/18	Submitted	The 2018 source test notice and protocols were submitted to the SJVAPCD on 5/10/18 and to CPM (CEC) on 5/11/18.
AQ-41	Startup/Ops	Source testing to measure startup and shutdown NOx, CO, and VOC mass emission rates shall be conducted at least once every seven years on one of the three gas turbines (N-3299-4, '-5 or '-6). CEMS relative accuracy for NOx and CO shall be determined during startup and shutdown source testing in accordance with 40 CFR 60, Appendix F (Relative Accuracy Audit). If CEMS data is not certifiable to determine compliance with NOx and CO startup emission limits, then startup and shutdown NOx and CO testing on one of the three gas turbines shall be conducted every 12 months. If an annual startup and shutdown NOx and CO relative accuracy audit demonstrates that the CEMS data is certifiable, the start and shutdown NOx and CO test frequency shall return to the once-every-seven-years-schedule. [District Rule 1081]	The project owner shall rotate the turbine tested for startup and shutdown operations until all of the units have been tested during startup and shutdown operations. If, however, the testing indicates the CEMS data is not certifiable, then the same turbine will be tested until the CEMS data is certifiable during startup and shutdown operations. The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing and according to a pre-approved protocol (AQ-39).	SJVAPCD	1) Within 60d of testing; 2) upon initial operation; 3) Every 7 years			8/17/12	09/24/12	Submitted	CEM relative accuracy for NOx and CO shall be determined during startup and shutdown source testing in accordance with 40 CFR 60, Appendix F (Relative Accuracy Audit). <u>If CEM data is not certifiable to determine compliance with NOx and CO startup emission limits, then startup and shutdown NOx and CO testing shall be conducted every 12 months.</u> If an annual startup and shutdown NOx and CO relative accuracy audit demonstrates that the CEM data is certifiable, the startup and shutdown NOx and CO testing frequency shall return to the once every seven years schedule. <b>The 2012 source tests were conducted prior to the ACR #1 reporting period. However, source test result were submitted to CEC on 8/17/12 and rec'd on 8/20/12. Source test result approved by CEC via email from Bruce Boyer on 9/24/12.</b> <b>Next startup/shutdown test will be in 2019.</b>

**Almond 2 Power Plant Project CEC Operations Compliance Matrix**

Mobilization Start Date 02/25/11

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Resp. Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-42	Startup/Operations	Source testing to determine compliance with the NOx, CO, VOC and NH3 emission rates (lb/hr and ppmvd @ 15% O2) and PM10 emission rate (lb/hr) shall be conducted at least once every 12 months. [District Rules 2201 and 4703, 40 CFR 60.4400(a)]	The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing and according to a pre-approved protocol (AQ-39). Testing for steady-state emissions shall be conducted upon initial operation and at least once every 12 months.	SJVAPCD	1) Within 60d of testing; 2) upon initial operation; 3) At least every 12 months			8/17/12 8/28/13 8/25/14 9/4/15 8/2/16 8/10/17	09/24/12	Submitted	Source test results for the 2012 source test were submitted to Bruce Boyer (CEC) on 8/17/12 and rec'd on 8/20/12. Source test results were approved by CEC via email from Bruce Boyer on 9/24/12. The 2013 results were submitted to CEC on 8/28/13. The 2014 results were submitted to CEC on 8/25/14. The 2015 results were submitted to CEC on 9/4/15. The 2016 results were submitted to CEC on 8/2/16. The 2017 results were submitted to CEC on 8/10/17.
AQ-43	Startup/Operations	The sulfur content of each fuel source shall be: (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract, or (ii) monitored within 60 days after the end of commissioning period and weekly thereafter. [District Rule 2201 and 40 CFR 60.4360, 60.4365(a) and 60.4370(c)]	The result of the natural gas fuel sulfur monitoring data and other fuel sulfur content source data shall be submitted to the District and CPM in the quarterly operation report (AQ-SC8)	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-44	Startup/Operations	The following test methods shall be used: NOx - EPA Method 7E or 20 or CARB Method 100; CO - EPA Method 10 or 10B or CARB Method 100; VOC EPA Method 18 or 25; PM10 - EPA Method 5 (front half and back half) or 201 and 202a; ammonia - BAAQMD ST-1B; and O2 - EPA Method 3, 3A, or 20 or CARB Method 100. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. [District Rules 1081 and 4703, 40 CFR 60.4400(1)(i)]	The project owner shall submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-39.	SJVAPCD	15d prior source test date			5/10/18 5/11/18	05/29/18	Submitted	The 2018 source test notice and protocols were submitted to the SJVAPCD on 5/10/18 and to CPM (CEC) on 5/11/18.
AQ-45	Startup/Operations	Fuel sulfur content shall be monitored using one of the following methods: ASTM Methods D1072, D3246, D4084, D4468, D4810, D6228, D6667 or Gas Processors Association Standard 2377. [40 CFR 60.4415(a)(1)(i)]	The result of the natural gas fuel sulfur monitoring data and other fuel sulfur content source data shall be submitted to the District and CPM in the quarterly operation report (AQ-SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-46	Startup/Operations	The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]	The project owner shall submit the report of the source test results to both the District and CPM within 60 days of the last day of tests.	SJVAPCD	Within 60d of testing			8/17/12 8/28/13 8/25/14 9/4/15 8/2/16 8/10/17		Submitted	Source test results for the 2012 source test were submitted to Bruce Boyer (CEC) on 8/17/12 and rec'd on 8/20/12. Source test results were approved by CEC via email from Bruce Boyer on 9/24/12. The 2013 results were submitted to CEC on 8/28/13. The 2014 results were submitted to CEC on 8/25/14. The 2015 results were submitted to CEC on 9/4/15. The 2016 results were submitted to CEC on 8/2/16. The 2017 results were submitted to CEC on 8/10/17.
AQ-47	Constr/Ops	A mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the unit shall be installed, utilized and maintained. [District Rules 2201 and 4703]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-48	Constr/Ops	The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NOx, CO and O2 concentrations. Continuous emissions monitor(s) shall monitor emissions during all types of operation, including during startup and shutdown periods, provided the CEMS passes the relative accuracy requirement for startups and shutdowns specified herein. [District Rules 1080, 2201 and 4703, 40 CFR 60.4340(b)(1) and 40 CFR 60.4345(a)]	The project owner shall make the site available for inspection by representatives of the District, ARB and the Commission to verify the continuous monitoring system is properly installed and operational.	N/A						Ongoing	If relative accuracy of CEMS cannot be demonstrated during startup conditions, CEMS results during startup and shutdown events shall be replaced with startup emission rates obtained from source testing to determine compliance with emission limits contained in this document.
AQ-49	Constr/Ops	The NOx and O2 CEMS shall be installed and certified in accordance with the requirements of 40 CFR Part 75. The CO CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specification 4A (PS 4A), or shall meet equivalent specifications established by mutual agreement of the District, the CARB, and the EPA. [District Rule 1080 and 40 CFR 60.4345(a)]	The project owner shall submit to the CPM and APCO CEMS audits demonstrating compliance with this condition as part of the quarterly operation report (AQ-SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)

**Almond 2 Power Plant Project CEC Operations Compliance Matrix**

Mobilization Start Date		02/25/11									
Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Resp. Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-50	Constr/Ops	The CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour or shall meet equivalent specifications established by mutual agreement of the District, the CARB and the EPA. [District Rule 1080 and 40 CFR 60.4345(h)]	The project owner shall submit to the CPM and APCO CEMS audits demonstrating compliance with this condition as part of the quarterly operation report (AQ-SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-51	Ops	The CEMS data shall be reduced to hourly averages as specified in §60.13(h) and in accordance with §60.4350, or by other methods deemed equivalent by mutual agreement with the District, the CARB, and the EPA. [District Rule 1080 and 40 CFR 60.4350]	The project owner shall submit to the CPM and APCO CEMS data reduced in compliance with this condition as part of the quarterly operation report (AQ-SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-52	Ops	In accordance with 40 CFR Part 60, Appendix F, 5.1, the <b>CO CEMS must be audited at least once each calendar quarter</b> , by conducting cylinder gas audits (CGA) or relative accuracy audits (RAA). CGA or RAA may be conducted three of four calendar quarters, but no more than three calendar quarters in succession. [District Rule 1080]	<b>Audit reports shall be submitted along with quarterly compliance reports to the District.</b> The project owner shall submit to the CPM and APCO CEMS audits demonstrating compliance with this condition as part of the quarterly operation report (AQ-SC8).	SJVAPCD	Audited quarterly and reported quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-53	Ops	The owner/operator shall perform a RATA for CO as specified by 40 CFR Part 60, Appendix F, 5.1.1, at least once every four calendar quarters. [District Rule 1080]	The project owner shall submit to the CPM and APCO CEMS audits demonstrating compliance with this condition as part of the quarterly operation report (AQ-SC8).	SJVAPCD	At least once every 4 calendar quarters and reported quarterly			8/17/12 8/28/13 8/25/14 9/4/15 8/2/16 8/10/17	09/24/12	Submitted	<b>Source test results for the 2012 source test were submitted to Bruce Boyer (CEC) on 8/17/12 and rec'd on 8/20/12. Source test results were approved by CEC via email from Bruce Boyer on 9/24/12.</b> <b>The 2013 results were submitted to CEC on 8/28/13.</b> <b>The 2014 results were submitted to CEC on 8/25/14.</b> <b>The 2015 results were submitted to CEC on 9/4/15.</b> <b>The 2016 results were submitted to CEC on 8/2/16.</b> <b>The 2017 results were submitted to CEC on 8/10/17.</b>
AQ-54	Ops	The NOx and O2 CEMS shall be audited in accordance with the applicable requirements of 40 CFR Part 75. [District Rule 1080]	<b>Linearity reports shall be submitted along with quarterly compliance reports to the District.</b> The project owner shall submit to the CPM and APCO CEMS audits demonstrating compliance with this condition as part of the quarterly operation report (AQ-SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-55	Ops	Upon written notice from the District, the owner or operator shall provide a summary of the data obtained from the CEMS. This summary shall be in the form and the manner prescribed by the District. [District Rule 1080]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	SJVAPCD						Ongoing	
AQ-56 (Part 2 of 2)	Ops	The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEMS data polling software system and shall make CEMS data available to the District's automated polling system on a daily basis. [District Rule 1080]	2) The project owner shall make the site available for inspection by representatives of the District, ARB and the Commission upon request.	N/A						Ongoing	Upon notice by the District that the facility's CEMS is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEMS data is sent to the District by a District-approved alternative method.
AQ-57	Ops	The owner or operator shall maintain the following records: the date, time and duration of any malfunction of the continuous monitoring equipment; dates of performance testing; dates of evaluations, calibrations, checks, and adjustments of the continuous monitoring equipment; date and time period which a continuous monitoring system or monitoring device was inoperative. [District Rules 1080 and 2201 and 40 CFR 60.7(b)]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-58	Constr/Ops	The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. [District Rule 1081]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing.
AQ-59	Ops	Monitor Downtime is defined as any unit operating hour in which the data for NOx, or O2 concentrations is either missing or invalid. [40 CFR 60.4380(b)(2)]	No verification necessary	N/A						N/A	

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Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Resp. Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-60	Ops	The owner or operator shall maintain records of the following items: 1) hourly and daily emissions, in pounds, for each pollutant listed in this permit on the days startup and or shutdown of the gas turbine system occurs, 2) hourly and daily emissions, in pounds, for each pollutant in this permit on the days startup and or shutdown of the gas turbine system does not occur, 3) quarterly emissions, in pounds, for each pollutant listed in this permit. [District Rule 2201]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-61	Ops	The owner or operator shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local startup and stop time, total hours of operation, the type and quantity of fuel used, date/time and duration of each start-up and each shutdown event. [District Rule 2201 and 4703, 6.2.6, 6.2.8, 6.2.11]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-62	Ops	The owner or operator shall maintain all records of required monitoring data and support information for a period of five years from the date of data entry and shall make such records available to the District upon request. [District Rules 2201 and 4703, 6.2.4]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-63	Ops	The owner or operator shall submit a written report of CEM operations for each calendar quarter to the District. [District Rule 1080 and 40 CFR 60.4375(a) and 60.4395]	The report is due on the 30th day following the end of the calendar quarter. The project owner shall submit to the District and CPM the report of CEM operations, emission data, and monitor downtime data in the quarterly operation report (AQ-SC8) that follows the definitions of this condition.	SJVAPCD	30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-64	Ops	The owner or operator shall submit to the District information correlating the NOx control system operating parameters to the associated measured NOx output. The information must be sufficient to allow the District to determine compliance with the NOx emission limits of this permit when the CEMS is not operating properly. [District Rule 4703, 6.2.5]	The project owner shall submit to the District and CPM the report of CEM operations, emission data, and monitor downtime data in the quarterly operation report (AQ-SC8).	SJVAPCD	30d following end of calendar quarter			10/24/17 1/15/18 4/16/18 7/11/18		Submitted	Information is submitted as part of the Quarterly Operational Report (AQ-SC8)
AQ-75	All	Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 or Rule 8011. [District Rules 8011 and 8051]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-76	All	Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 or Rule 8011. [District Rules 8011 and 8061]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-81	Constr/Ops	Records and other supporting documentation shall be maintained as required to demonstrate compliance with the requirements of the rules under Regulation VIII only for those days that a control measure was implemented. Such records shall include the type of control measure(s) used, the location and extent of coverage, and the date, amount, and frequency of application of dust suppressant, manufacturer's dust suppressant product information sheet that identifies the name of the dust suppressant and application instructions. [District Rules 8011, 8031 and 8071]	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ SC8).	SJVAPCD	Quarterly no later than 30d following end of calendar quarter					Not Started	Records shall be kept for one year following project completion that results in the termination of all dust generating activities. <b>TID has not had to apply dust suppressants to date.</b>
AQ-82	Constr/Ops	The owners and operators of each affected source and each affected unit at the source shall have an Acid Rain permit and operate in compliance with all permit requirements. [40 CFR 72]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	

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AQ-83	Ops	The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75. [40 CFR 75]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-84	Ops	The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program. [40 CFR 75]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-85	Ops	The owners and operators of each source and each affected unit at the source shall: (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide. [40 CFR 73]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-86	Ops	Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act. [40 CFR 77]	No verification necessary	N/A						N/A	
AQ-87	Ops	Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program. [40 CFR 72]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-88	Ops	An allowance shall not be deducted in order to comply with the requirements under 40 CFR part 73, prior to the calendar year for which the allowance was allocated. [40 CFR 73]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-89	Ops	An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization. [40 CFR 72]	No verification necessary	N/A						N/A	
AQ-90	Ops	An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right. [40 CFR 72]	No verification necessary	N/A						N/A	
AQ-91	Ops	The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77. [40 CFR 77]	The project owner shall submit to both the District and CPM the proposed offset plan as required by the federal rule.	N/A						Not Started	
AQ-92	Ops	The owners and operators of an affected unit that has excess emissions in any calendar year shall: (i) Pay without demand the penalty required, and pay up on demand the interest on that penalty; and (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77. [40 CFR 77]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
AQ-93	Ops	The owners and operators of the each affected unit at the source shall keep on site the following documents** for a period of five years from the date the document is created. [40 CFR 72]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	**This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority: (i) The certificate of representation for the designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site beyond such five-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative.

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AQ-94	Ops	The owners and operators of each affected unit at the source shall keep on site each of the following documents** for a period of five years from the date the document is created. [40 CFR 75]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	**This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority; (ii) All emissions monitoring information, in accordance with 40 CFR part 75; (iii) Copies of all reports, compliance certifications and other submissions and all records made or required under the Acid Rain Program; (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission that demonstrates compliance with the requirements of the Acid Rain Program.
AQ-95	Ops	The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR 75 Subpart I. [40 CFR 75]	The project owner shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	N/A						Ongoing	
BIO-1 (Part 2 of 2)	Constr/Ops	Designated Biologist Replacement.	If a Designated Biologist needs to be replaced, the specified info of proposed replacement must be submitted to the CPM at least ten working days prior to the termination or release of the preceding Designated Biologist. In an emergency, the project owner shall immediately notify the CPM to discuss the qualifications and approval of a short-term replacement while a permanent Designated Biologist is proposed to the CPM for consideration.	N/A	10d prior release or termination, if occurs					N/A	
BIO-2 (part 2 of 2)	Ops	Designated Biologist Duties: The project owner shall ensure that the Designated Biologist performs the activities and duties outlined in BIO-2 during any site (or related facilities) mobilization, ground disturbance, grading, construction, operation, and closure activities.	2) Designated Biologist shall notify CPM, CDFG and USFWS of any project-related take of state or federally listed species within 24 hours. 3) Report sensitive species sightings to CA Natural Diversity Database (CNDDB) where appropriate. 4) Notify project owner and CPM of any noncompliance with any biological resource condition of certification. 5) If actions may affect biological resources during operation a Designated Biologist shall be available for monitoring and reporting. 6) During project operation, the Designated Biologist shall submit record summaries in the annual compliance report **.	CEC, CDFG, USFWS, if take	2) within 24 hours, if take occurs; 3) if sightings; 4) If occurs; 5) If occurs; 6) In ACRs					Ongoing /Submitted	**During project operation, the Designated Biologist shall submit record summaries in the annual compliance report unless their duties are ceased as approved by the CPM. ### Designated Biologist's report included in ACR #1
BIO-4	All	Designated Biologist and Biological Monitor Authority: The project owner's construction/operation managers shall act on the advice of the Designated Biologist and Biological Monitors to ensure conformance with the biological resources conditions of certification. <b>See BIO-4 for specific biologist duties.</b>	1) The project owner shall ensure that the Designated Biologist or Biological Monitor notifies the CPM immediately (and no later than the following morning of the incident, or Monday morning in case of a weekend) of any non-compliance or a halt. 2) The project owner shall notify the CPM of the circumstances and actions being taken to resolve the problem.	N/A	Immediately if occurs					N/A	If required by the Designated Biologist and Biological Monitors, the project owner's construction/operation managers shall halt site mobilization, ground disturbance, grading, construction and operation activities in areas specified by the Designated Biologist.
BIO-5 (Part 4 of 4)	Ops	Worker Environmental Awareness Program (WEAP).	4) During project operation, signed statements for active project operational personnel shall be kept on file for six months following the termination of an individual's employment.	N/A	4) Kept for 6 months following termination					Ongoing	The signed training acknowledgement forms from construction shall be kept on file by the project owner for a period of at least six months after the start of commercial operation.
BIO-14 (Part 3 of 3)	Ops	CDFG Streambed Alteration Agreement (SAA) and ACOE Section 404 Permit Measures	A copy of the notifying change of conditions report shall be included in the annual reports.	ACOE, CDFG	N/A - Neither a Streambed Alteration Agreement or 404 permit were required for the project.					N/A	Neither a Streambed Alteration Agreement nor an ACOE Section 404 Permit were required for the project.

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Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Resp. Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
CUL-7 (Part 1 of 2)	Constr	The project owner shall submit the final Cultural Resources Report (CRR) to the CPM for approval. The CRR shall be written by or under the direction of the CRS and shall be provided in the ARMR format. The final CRR shall report on all field activities including dates, times and locations, results, samplings, and analyses. All survey reports, Department of Parks and Recreation (DPR) forms, data recovery reports, and any additional research reports not previously submitted to the California Historic Resource Information System (CHRIS) and the State Historic Preservation Officer (SHPO) shall be included as an appendix to the final CRR.	1) Within 90 days after completion of ground disturbance (including landscaping), submit the final CRR to CPM for review and approval. If any reports have previously been sent to the CHRIS, then receipt letters from the CHRIS or other verification of receipt shall be included in an appendix. 2) Within 90 days after completion of ground disturbance (including landscaping), if cultural materials requiring curation were generated or collected, provide copy of agreement with or other written commitment from a curation facility. 3) Within 10 days after CPM approval, the project owner shall provide documentation to the CPM confirming that copies of the final CRR have been provided to the SHPO, the CHRIS, and the curating institution, if archaeological materials were collected, and to the Tribal Chairpersons of any Native American groups requesting copies.	SHPO, CHRIS, Curating institution	1) Within 90d after completion of ground disturb; 2) Within 90d after completion of ground disturb; 3) within 10d of CPM approval	CH2		10/1/2012 6/17/13		Submitted	Any agreements concerning curation will be retained and available for audit for the life of the project. ### If the project owner requests a suspension of ground disturbance and/or construction activities, then a draft CRR that covers all cultural resources activities associated with the project shall be prepared by the CRS and submitted to the CPM for review and approval within 24 hours ( <b>conflicts with verification, which allows 30 days</b> ) of the suspension/extension request. The draft CRR shall be retained at the project site in a secure facility until ground disturbance and/or construction resumes or the project is withdrawn. If the project is withdrawn, then a final CRR shall be submitted to the CPM for review and approval at the same time as the withdrawal request. ### CRR submitted via email on 10/1/12. 4/16/13 CEC comments on the plan received via email from Bruce Boyer. 6/17/13 response to CEC comments submitted via email to Bruce Boyer.
CUL-7 (Part 2 of 2)	Ops	Curation Agreement	Any agreements concerning curation will be retained and available for audit for the life of the project.	N/A	N/A					N/A	There were no curation agreements for the project.
HAZ-1	All	The project owner shall not use any hazardous material not listed in Appendix B of the Hazardous Materials Management section, or in greater quantities or strengths than those identified by chemical name in Appendix B, unless approved in advance by the CPM.	Provide to the CPM, in the Annual Compliance Report, a list of hazardous materials contained at the facility.	N/A	In ACRs			7/15/13	07/29/13	Ongoing	7/15/13 updated HAZ-1 list sent to Bruce Boyer. 7/29/13 updated HAZ-1 list approved via email from Bruce Boyer. No modifications for ACR #2. No modifications for ACR #3. No modifications for ACR #4. No modifications for ACR #5. HAZ-1 modification was sent on 3/22/18. Same list is submitted with ACR #6
HAZ-3 (Part 3 of 3)	Ops	The project owner shall develop and implement a Safety Management Plan for delivery of anhydrous ammonia and other liquid hazardous materials by tanker truck. See HAZ-3 for plan requirements.	This plan shall be applicable during construction, commissioning, and operation of the power plant.	N/A						Ongoing	
HAZ-4 (Part 2 of 2)	Ops	The project owner shall direct all vendors delivering anhydrous ammonia to the site to use only tanker truck transport vehicles which meet or exceed the specifications of DOT Code MC-331.	1) The project owner shall provide this direction in a letter to the vendor(s) at least thirty (30) days prior to the receipt of anhydrous ammonia on site and submit copies of the notification to the CPM.	N/A	Provide letter to new vendors, if change vendors					Ongoing	
HAZ-5 (Part 2 of 2)	Ops	The project owner shall direct all vendors delivering any hazardous material to the site to use only the route approved by the CPM. Trucks will travel on SR-99 to Crows Landing Road to the power plant site. Vendors shall be prohibited from transporting anhydrous ammonia to the site at times that will coincide with regular school bus traffic along Crows Landing Road.	Send letters to the vendors about time of day limitations, and route restriction.	N/A	Provide letter to new vendors, if change vendors					Ongoing	The project owner shall obtain approval of the CPM if an alternate route is desired.
HAZ-7 (Part 2 of 2)	Ops	The project owner shall revise and update the existing site-specific operations security plan and make it available to the CPM for review and approval. The project owner shall continue to implement existing site security measures that address physical site security and hazardous materials storage. The level of security to be implemented shall not be less than that described in Condition HAZ-7 (as per NERC 2002).	2) In the annual compliance report, include a statement that all current project employee and appropriate contractor background investigations have been performed and that updated certification statements have been appended to the operations security plan. Also include a statement that the operations security plan includes all current hazardous materials transport vendor certifications for security plans and employee background investigations.	N/A	2) In ACRs			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Submitted	The project owner shall fully implement the security plans and obtain CPM approval of any substantive modifications to those security plans. The CPM may authorize modifications to these measures, or may require additional measures such as protective barriers for critical power plant components—transformers, gas lines, and compressors—depending upon circumstances unique to the facility or in response to industry-related standards, security concerns, or additional guidance provided by the U.S. Department of Homeland Security, the U.S. Department of Energy, or the North American Electrical Reliability Council, after consultation with both appropriate law enforcement agencies and the applicant. ### ACR #1 submitted on 8/28/13. ACR #2 submitted on 3/31/15. ACR #3 submitted on 8/19/15. ACR #4 submitted on 8/22/16. ACR #5 submitted on 8/29/17.
NOISE-1 (part 2 of 2)	Ops	Telephone number	3) Telephone number established during construction to report noise complaints is to be maintained for at least first year of operation	N/A	3) During first year of operation					Complete	



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NOISE-2	All	Throughout the construction and operation of the project, the project owner shall document, investigate, evaluate, and attempt to resolve all project-related noise complaints. <b>See Condition NOISE-2 for complaint handling and reporting requirements.</b>	1) Within five days of receiving a noise complaint, the project owner shall file a copy of the Noise Complaint Resolution Form, with the CPM, documenting the resolution of the complaint. 2) If mitigation is required to resolve a complaint, and the complaint is not resolved within a 3-day period, the project owner shall submit an updated Noise Complaint Resolution Form when the mitigation is implemented.	N/A	1) Within 5d of receiving a noise complaint; 2) If mitigation required					Not Started	Use Noise Complaint Resolution Form or functionally equivalent procedure acceptable to CPM to document and respond to each noise complaint. Attempt to contact person(s) making noise complaint within 24 hour, or 72 hours if the complaint is made over the weekend. Conduct investigation to determine source of noise. If project related take all feasible measures to reduce noise at its source. Submit report document complaint and actions taken.
SOIL & WATER-2 (Part 3 of 3)	Ops	Site-specific Drainage, Erosion and Sedimentation Control Plan (DESCP)	3) Once operational, the project owner shall provide in the annual compliance report information on the results of stormwater facilities monitoring and maintenance activities.	N/A	3) In ACRs			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Submitted	The information required in the DESCP may be included as part of the SWPPP.### <b>ACR #1 submitted on 8/31/13.</b> <b>ACR #2 submitted on 3/31/15.</b> <b>ACR #3 submitted on 8/19/15.</b> <b>ACR #4 submitted on 8/22/16.</b> <b>ACR #5 submitted on 8/29/17.</b>
SOIL & WATER-4 (Part 2 of 2)	Ops	Water used for project operation processing shall exclusively be reclaimed water from the City of Ceres Wastewater Treatment Plant. <b>Pumping or purchasing groundwater for this supply source is prohibited.</b> Water use shall not exceed 514 acre-feet per year. <b>See Soil &amp; Water-4 for requirements.</b>	2) For the first year of operation, the project owner shall prepare an annual Water Use Summary, which will include the monthly average of daily water usage in gallons per day, and total water used by the project on a monthly and annual basis in acre-feet. 3) For subsequent years, the annual Water Use Summary shall also include the annual water used by the project in prior years. The annual Water Use Summary shall be submitted to the CPM as part of the annual compliance report (ACR).	N/A	In ACRs			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Submitted	The project owner shall monitor and record the total water used on a monthly basis. For calculating the annual water use, the term "year" will correspond to the date established for the annual compliance report submittal. ### The project owner shall maintain metering devices as part of the water supply and distribution systems to monitor and record, in gallons per day, the total volume(s) of water supplied to A2PP from the City of Ceres. Those metering devices shall be operational for the life of the project. ### <b>ACR #1 submitted on 8/31/13.</b> <b>ACR #2 submitted on 3/31/15.</b> <b>ACR #3 submitted on 8/19/15.</b> <b>ACR #4 submitted on 8/22/16.</b> <b>ACR #5 submitted on 8/29/17.</b>
SOIL & WATER-5	Ops	The A2PP process wastewater will discharge to the Ceres WWTP Percolation-Evaporation basins at a maximum discharge of 560,000 gallons per day per the City of Ceres, CA and Turlock Irrigation District Water Services Agreement and its Amendments.	1) Submit to the CPM any wastewater quality monitoring reports required by the City of Ceres, in the annual compliance report. 2) Submit any notice of violations from the City of Ceres to the CPM within 10 days of receipt and fully explain the corrective actions taken in the annual compliance report. 3) Also promptly provide to the CPM copies of all correspondence between the Ceres WWTP and TID related to suspensions, nullifications, or amendments to the Water Services Agreement.	City of Ceres	1) In ACRs; 2) within 10d of receipt, if occurs; 3) promptly, if occurs			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Submitted	<b>ACR #1 submitted on 8/31/13.</b> <b>ACR #2 submitted on 3/31/15.</b> <b>ACR #3 submitted on 8/19/15.</b> <b>ACR #4 submitted on 8/22/16.</b> <b>ACR #5 submitted on 8/29/17.</b>
TLSN-2	Ops	The project owner shall ensure that every reasonable effort will be made to identify and correct, on a case-specific basis, any complaints of interference with radio or television signals from operation of the project-related lines and associated switchyards.	1) All reports of line-related complaints shall be summarized for the project-related lines and included during the first five years of plant operation in the Annual Compliance Report.	N/A	In ACRs, for 1st 5 years of operation			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Submitted	The project owner shall maintain written records for a period of five years, of all complaints of radio or television interference attributable to line operation together with the corrective action taken in response to the complaint.### <b>ACR #1 submitted on 8/31/13.</b> <b>ACR #2 submitted on 3/31/15.</b> <b>ACR #3 submitted on 8/19/15.</b> <b>ACR #4 submitted on 8/22/16.</b> <b>ACR #5 submitted on 8/29/17.</b> While pursuant to TSLN-4, this is the fifth and final year of ACR reporting, the District has its own inspection and fire protection programs that have been implemented and will be implemented for the life of the project consistent with both District policies and applicable LORS.
TLSN-4	Ops	The project owner shall ensure that the rights-of-way of the proposed transmission line are kept free of combustible material, as required under the provisions of Section 4292 of the Public Resource Code and Section 1250 of Title 14 of the California Code of Regulations.	During the first five years of operation, the project owner shall provide a summary of inspection results and any fire prevention activities carried out along the right-of-way and provide such summaries in the Annual Compliance Report.	N/A	In ACRs, for 1st 5 years of operation			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Submitted	<b>ACR #1 submitted on 8/31/13.</b> <b>ACR #2 submitted on 3/31/15.</b> <b>ACR #3 submitted on 8/19/15.</b> <b>ACR #4 submitted on 8/22/16.</b> <b>ACR #5 submitted on 8/29/17.</b> While pursuant to TSLN-4, this is the fifth and final year of ACR reporting, the District has its own inspection and fire protection programs that have been implemented and will be implemented for the life of the project consistent with both District policies and applicable LORS.
VIS-2 (part 2 of 2)	Ops	Permanent Exterior Lighting: Reporting of lighting complaints	4) Within 48 hours of receiving a lighting complaint, the project owner shall provide the CPM with a complaint resolution form report as specified in the Compliance General Conditions, including a proposal to resolve the complaint and a schedule for implementation.	N/A	4) Within 48 hours of receiving complaint					Not Started	

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<b>VIS-3 (part 2 of 2)</b>	<b>Ops</b>	Painting Maintenance	3) The project owner shall provide a status report regarding surface treatment maintenance in the Annual Compliance Report**.	N/A	3) In ACRs			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Submitted	** The report shall specify a) the condition of the surfaces of all structures and buildings at the end of the reporting year; and b) maintenance activities that occurred during the reporting year; and c) the schedule of maintenance activities for the next year.### <b>ACR #1 submitted on 8/31/13.</b> <b>ACR #2 submitted on 3/31/2015.</b> <b>ACR #3 submitted on 8/19/15.</b> <b>ACR #4 submitted on 8/22/16.</b> <b>ACR #5 submitted on 8/29/17.</b>
<b>WASTE-3 (Part 2 of 2)</b>	<b>Ops</b>	The project owner shall obtain a hazardous waste generator identification number from the U.S. EPA prior to generating any hazardous waste operations.	1) Obtain number from U. S. EPA prior to generating any hazardous waste during operation. 2) The project owner shall keep a copy of the identification number on file at the project site and provide the number to the CPM.	U.S. EPA	If need to obtain new or additional number					Not Started	
<b>WASTE-4</b>	<b>All</b>	Upon becoming aware of any impending waste management-related enforcement action by any local, state, or federal authority, the project owner shall notify the CPM of any such action taken or proposed to be taken against the project itself, or against any waste hauler or disposal facility or treatment operator with which the owner contracts.	The project owner shall notify the CPM in writing within 10 days of becoming aware of an impending enforcement action. The CPM shall notify the project owner of any changes that will be required in the manner in which project-related wastes are managed.	N/A	Within 10d of becoming aware of enforcement action					Not Started	
<b>WASTE-6 (part 2 of 2)</b>	<b>Ops</b>	Annual waste management reporting	3) Document in each Annual Compliance Report the actual volume of wastes generated and the waste management methods used during the year; provide a comparison of the actual waste generation and management methods used to those proposed in the original Operation Waste Management Plan; and update the Operation Waste Management Plan as necessary to address current waste generation and management practices.	N/A	3) In ACRs			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Submitted	<b>ACR #1 submitted on 8/31/13.</b> <b>ACR #2 submitted on 3/31/15</b> <b>ACR #3 submitted on 8/19/15.</b> <b>ACR #4 submitted on 8/22/16.</b> <b>ACR #5 submitted on 8/29/17.</b>
<b>WASTE-7</b>	<b>All</b>	The project owner shall ensure that all spills or releases of hazardous substances, hazardous materials, or hazardous waste are reported, cleaned-up, and remediated as necessary, in accordance with all applicable federal, state, and local requirements. <b>See WASTE-7 for documentation and reporting requirements.</b>	Document all unauthorized releases and spills of hazardous substances, materials, or wastes that occur on the project property or related pipeline and transmission corridors. Copies of the unauthorized spill documentation shall be provided to the CPM within 30 days of the date the release was discovered.	N/A	Within 30d, if occurs					Not Started	
<b>WORKER SAFETY-5 (Part 3 of 3)</b>	<b>Ops</b>	The project owner shall ensure that a portable automatic cardiac defibrillator (AED) is located on site during construction and operations and shall implement a program to ensure that workers are properly trained in its use and that the equipment is properly maintained and functioning at all times.	3) During operations, all power plant employees shall be trained in its use.	N/A	3) during operations			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Ongoing	** The report shall specify a) status of AED functionality; and b) updates on training; and c) replacement of AED if applicable.### <b>ACR #1 submitted on 8/31/13.</b> <b>ACR #2 submitted on 3/31/2015.</b> <b>ACR #3 submitted on 8/19/2015.</b> <b>ACR #4 submitted on 8/22/2016.</b> <b>ACR #5 submitted on 8/29/2017.</b>
<b>GEN-1</b>	<b>All</b>	The project owner shall design, construct, and inspect the project in accordance with the 2007 California Building Standards Code (CBSC), also known as Title 24, California Code of Regulations, which encompasses the California Building Code (CBC), California Administrative Code, California Electrical Code, California Mechanical Code, California Plumbing Code, California Energy Code, California Fire Code, California Code for Building Conservation, California Reference Standards Code, and all other applicable engineering laws, ordinances, regulations and standards (LORS) in effect at the time initial design plans are submitted to the chief building official (CBO) for review and approval (the CBSC in effect is the edition that has been adopted by the California Building Standards Commission and published at least 180 days previously).	1) Within 30 days after receipt of the Certificate of Occupancy, submit to CPM a statement of verification, signed by the responsible design engineer, attesting that all designs, construction, installation and inspection requirements of the applicable LORS and the Energy Commission's Decision have been met in the area of facility design. 2) Provide CPM a copy of Certificate of Occupancy within 30 days of receipt from CBO. 3) <b>Once the Certificate of Occupancy has been issued, inform CPM at least 30 days prior to any construction, addition, alteration, moving, or demolition to be performed on any portion(s) of the completed facility which may require CBO approval for the purpose of complying with the above stated codes. The CPM will then determine if the CBO needs to approve the work.</b>	CBO	1) and 2) Within 30d after receipt of the Certificate of Occupancy. 3) at least 30d prior addition, alteration, etc. to completed facility					Not Started	In the event that the initial engineering designs are submitted to the CBO when the successor to the 2007 CBSC is in effect, the 2007 CBSC provisions shall be replaced with the applicable successor provisions. Where, in any specific case, different sections of the code specify different materials, methods of construction or other requirements, the most restrictive shall govern. Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall govern. The project owner shall ensure that all contracts with contractors, subcontractors, and suppliers clearly specify that all work performed and materials supplied comply with the codes listed in GEN-1. ### <b>The project owner shall ensure that all the provisions of the above applicable codes are enforced during the construction, addition, alteration, moving, or demolition of the completed facility.</b>

**Almond 2 Power Plant Project CEC Operations Compliance Matrix**

Mobilization Start Date		02/25/11									
Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Resp. Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
GEN-8 (Part 2 of 2)	Ops	The project owner shall retain one set of approved engineering plans, specifications, and calculations (including all approved changes) at the project site or at an alternative site approved by the CPM during the operating life of the project.	N/A	N/A						N/A	
ELEC-1 (Part 2 of 2)	Ops	Prior to the start of any increment of electrical construction for all electrical equipment and systems 480 volts and higher (see representative list in ELEC-1) with the exception of underground duct work and any physical layout drawings and drawings not related to code compliance and life safety, the project owner shall submit, for CBO design review and approval, the proposed final design, specifications and calculations. <b>See ELEC-1 for required documents and calculations.</b>	Upon approval, the listed plans, together with design changes and design change notices, shall remain on the site or another accessible location for the operating life of the project.	N/A						Not Started	
PAL-6 (Part 2 of 2)	Ops	The project owner, through the designated PRS, shall ensure that all components of the PRMMP are adequately performed including collection of fossil materials, preparation of fossil materials for analysis, analysis of fossils, identification and inventory of fossils, the preparation of fossils for curation, and the delivery for curation of all significant paleontological resource materials encountered and collected during project construction.	2) Maintain in compliance file copies of signed contracts or agreements with the designated PRS and other qualified research specialists to be maintain for three years after project completion and approval of CPM-approved Paleontological Resources Report.		2) Maintain in files for 3 years following approval of PRR					Contract on file	
COM-1	All	Unrestricted Access--The project owner shall grant Energy Commission staff and delegate agencies or consultants unrestricted access to the power plant site, related facilities, project-related staff, and the records maintained on site for the purpose of conducting audits, surveys, inspections, and general site visits.	No submittal required	N/A	N/A					N/A	Although the CPM will normally schedule site visits on dates and times agreeable to the project owner, the CPM reserves the right to make unannounced visits at any time.
COM-2	All	Compliance Record--The project owner shall maintain project files on site or at an alternative site approved by the CPM. Energy Commission staff and delegate agencies shall be given unrestricted access to the files.	No submittal required	N/A	N/A					N/A	Maintain project files for the life of the project unless a lesser period of time is specified by the conditions of certification. The files shall contain copies of all "as-built" drawings, documents submitted for verification for conditions, and other project-related documents.
COM-3	All	Compliance Verification Submittals: The project owner is responsible for the delivery and content of all verification submittals to the CPM, whether such condition was satisfied by work performed or the project owner or his agent. The verification procedures, unlike the conditions, may be modified as necessary by the CPM. <b>See COMPLIANCE-3 for compliance verification, cover letter requirements, and compliance submittal address.</b>	Hard copies are to be submitted to address listed in COM-3, and those submittals shall be accompanied by a searchable electronic copy, on CD or by e-mail, as agreed upon by the CPM.	N/A	As required					N/A	Verification lead times associated with the start of construction may require submittals during the certification process, particularly if construction is planned to commence shortly after certification. (Per COMPLIANCE-4, the submittal of compliance documents prior project certification is at the owner's own risk. Any approval by Energy Commission staff is subject to change, based upon the Commission Decision.) If project owner desires Energy Commission staff action by a specific date, request it in the cover letter, and provide a detailed explanation of the effects on the project if the date is not met.
COM-7	Ops	Annual Compliance Reports (ACR)-- <b>See COMPLIANCE-7 for complete list of ACR requirements.</b>	After construction ends and throughout the life of the project, the project owner shall submit annual compliance reports instead of monthly compliance reports. The reports are due to the CPM each year at a date agreed to by the CPM.	N/A	Annually on date agreed to by CPM			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Submitted	Annual Compliance Reports shall be submitted over the life of the project unless otherwise specified by the CPM. <b>As agreed upon with Bruce Boyer, CPM, via email on 7/31/13, the ACR's are due on August 31 each year. The first ACR will cover the reporting period from COD on July 18, 2012 - July 31, 2013. The reporting period for all subsequent ACRs will be August 1 - July 31 of each year. ACR #1 submitted on 8/28/13. ACR #2 submitted on 3/31/15. ACR #3 submitted on 8/19/15. ACR #4 submitted on 8/22/16. ACR #5 submitted on 8/29/17.</b>
COM-8	All	Confidential Information	Any information the project owner deems confidential shall be submitted to the Energy Commission's Executive Director with a request for confidentiality.	N/A	if required					N/A	Any information that is determined to be confidential shall be kept confidential as provided for in Title 20, California Code of Regulations, section 2501, et. seq.

## Almond 2 Power Plant Project CEC Operations Compliance Matrix

Mobilization Start Date 02/25/11

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Resp. Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
COM-9	All	Annual Energy Facility Compliance Fee: The project owner is required to pay an annual compliance fee, which is adjusted annually. Current compliance fee information is available on the Energy Commission's website or from the CPM. See <b>COMPLIANCE-9 for payment instructions.</b>	1) The initial payment is due on the date the Energy Commission adopts the final decision. 2) All subsequent payments are due by July 1 of each year the facility retains its certification.	N/A	1) When commission decision adopted. 2) July 1st of each year					Ongoing	
COM-10 (Part 2 of 2)	All	Reporting of Complaints, Notices and Citations	2) Provide copies to CPM of all complaint forms, including noise and lighting complaints, notices of violation, notices of fines, official warnings, and citations, within 10 days of receipt. Complaints shall be logged and numbered. Noise complaints shall be recorded on the form provided in the <b>NOISE</b> conditions of certification. All other complaints shall be recorded on the complaint form (Attachment A).	N/A	within 10d of receipt					Ongoing	
COM-11	Ops	Planned Facility Closure: As necessary, the project owner shall take appropriate steps to eliminate any immediate threats to public health and safety and the environment, but shall not commence any other closure activities until the closure plan has been approved by the CEC. See <b>COMPLIANCE-11 for specific plan requirements</b>	1) Prior to submittal of closure plan, a meeting shall be held between project owner and CPM to discuss contents of plan. 2) Project owner shall submit a closure plan to the Energy Commission for review and approval at least 12 months prior (or other period agreed to by CPM) to commencement of a planned closure.	N/A	At least 12 months prior planned closure					Not Started	The project owner shall file 120 copies (or other number agreed upon by CPM) of the proposed facility closure plan. In the event that there are significant issues associated with the proposed facility closure plan's approval, or the desires of local officials or interested parties are inconsistent with the plan, the CPM shall hold one or more workshops and/or the Energy Commission may hold public hearings as part of its approval procedure.
COM-12 (part 2 of 2)	Ops	Updating Unplanned Temporary Closure/On-site Contingency Plan: See <b>COMPLIANCE-12 for specific plan requirements.</b>	2) In consultation with the CPM, update the on-site contingency plan as necessary. 3) In the ACR review the on-site contingency plan and recommend changes to bring the plan up to date. Any changes must be approved by the CPM. Also, status of insurance coverage and major equipment warranties must be updated. 4) In the event of an unplanned temporary closure, notify CPM and other responsible agencies, by telephone, fax, or e-mail, within 24 hours, and implement the on-site contingency plan. Keep CPM informed of circumstances and expected duration of closure.	N/A	2) as necessary; 3) in ACRs 4) within 24 hours if unplanned closure;			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Submitted	The CPM may require revisions to the on-site contingency plan over the live of the project. ### If CPM determines that an unplanned temporary closure is likely to be permanent, or for a duration of more than 12 months, a closure plan consistent with the requirements for a planned closure shall be developed and submitted to the CPM within 90 days of the CPM's determination (or other period agreed to by the CPM). ### <b>ACR #1 submitted on 8/28/13.</b> <b>ACR #2 submitted on 3/31/15.</b> <b>ACR #3 submitted on 8/19/15.</b> <b>ACR #4 submitted on 8/22/16.</b> <b>ACR #5 submitted on 8/29/17.</b>
COM-13	Ops	Unplanned Permanent Facility Closure/On-Site Contingency Plan: The on-site contingency plan required for unplanned temporary closure shall also cover unplanned permanent facility closure. All of the requirements specified for unplanned temporary closure shall also apply to unplanned permanent closure (COMPLIANCE-12).	1) In the event of an unplanned permanent closure, the project owner shall notify the CPM, as well as other responsible agencies, by telephone, fax, or e-mail, within 24 hours and shall take all necessary steps to implement the on-site contingency plan. The project owner shall keep the CPM informed of the status of all closure activities. 2) A closure plan, consistent with the requirements for a planned closure, shall be developed and submitted to the CPM within 90 days of the permanent closure or another period of time agreed to by the CPM.	N/A	1) Within 24 hours of unplanned closure; 2) Within 90d of permanent closure or other approved date					Not Started	In addition, the on-site contingency plan shall address how the project owner will ensure that all required closure steps will be successfully undertaken in the unlikely event of abandonment.
COM-14	All	Post-Certification changes to the Decision: Amendments, Ownership Changes, Staff Approved Project Modifications and Verification Changes-- See <b>COMPLIANCE-14 for important detailed information about amendments, change of ownership, project modifications, and verification changes, including information on how each must be handled and how each are processed.</b>	A petition is required for amendments and for staff approved project modifications as specified in Condition COMPLIANCE-14. For verification changes, a letter from the project owner is sufficient.	N/A	If post-certification changes			8/28/2013 3/31/2015 8/19/2015 8/22/2016 8/29/2017		Submitted	Project Owner must petition the CEC in order to delete or change a condition of certification, modify the project (including linear facilities) design, operation or performance requirements, and/or to transfer ownership or operational control of the facility. <u>It is the responsibility of the project owner to contact the CPM to determine if a proposed change should be considered a project modification. Implementation of a project modification without first securing Energy Commission or Energy Commission staff approval, may result in enforcement action that could result in civil penalties. ### ACR # 1 submitted on 8/28/13.</u> <b>ACR #2 submitted on 3/31/15.</b> <b>ACR #3 submitted on 8/19/15.</b> <b>ACR #4 submitted on 8/22/16.</b> <b>ACR #5 submitted on 8/29/17.</b>

## APPENDIX B

### Summary of Operating Status

**Almond 2 Power Plant  
Annual Operating Summary  
Operating Hours per Turbine  
August 2017 to July 2018**

GAS TURBINE UNIT 2	
MONTH	SERVICE HOURS
Aug-2017	47
Sep-2017	38
Oct-2017	13
Nov-2017	12
Dec-2017	32
Jan-2018	0
Feb-2018	17
Mar-2018	18
Apr-2018	21
May-2018	147
Jun-2018	265
Jul-2018	233

GAS TURBINE UNIT 3	
MONTH	SERVICE HOURS
Aug-2017	264
Sep-2017	322
Oct-2017	73
Nov-2017	98
Dec-2017	382
Jan-2018	72
Feb-2018	115
Mar-2018	2
Apr-2018	3
May-2018	14
Jun-2018	98
Jul-2018	93

GAS TURBINE UNIT 4	
MONTH	SERVICE HOURS
Aug-2017	129
Sep-2017	117
Oct-2017	24
Nov-2017	41
Dec-2017	174
Jan-2018	4
Feb-2018	43
Mar-2018	14
Apr-2018	19
May-2018	15
Jun-2018	52
Jul-2018	118

A2PP GENERATION	
MONTH	Kilowatt Hours
Aug-2017	17,578,404
Sep-2017	17,242,454
Oct-2017	3,553,731
Nov-2017	5,759,235
Dec-2017	21,361,496
Jan-2018	2,141,661
Feb-2018	5,818,260
Mar-2018	953,697
Apr-2018	1,419,826
May-2018	6,761,618
Jun-2018	14,852,512
Jul-2018	19,432,334

Note: Almond Power Plant, located adjacent to the A2PP, is Unit 1.

## APPENDIX C

### Hazardous Materials List

HAZ -1, HAZARDOUS MATERIALS FOR ALMOND 2 POWER PLANT				
Material	CAS No.	Application	Hazardous Characteristics	Maximum Quantity On Site
Acetylene	47-86-2	Welding gas	Health: asphyxiant gas Physical: flammable	435 cu ft
Argon	7440-37-1	Welding gas	Health: asphyxiant gas Physical: flammable	450 cu.ft.
Argon/CO2	7440-37-1/ 124-38-9	Welding gas	Health: asphyxiant gas Physical: flammable	500 cu. Ft.
Anhydrous Ammonia (100 percent NH3 by weight)	7664-41-7	Control NOx emissions through selective catalytic reduction	Health: Corrosive, irritation to permanent damage from inhalation, ingestion and skin contact Physical: Combustible, but difficult to burn	10,200 gallons
Anti-scalant	Various	Prevent scale in reverse osmosis membranes	Health: may cause slight irritation to the skin and moderate irritation to the eyes Physical: non flammable	110 gallons
Aviation Engine Oil	----	Lubricant	Health: hazardous via ingestion Physical: combustible	920 gallons
Carbon Dioxide	124-38-9	Fire suppression	Health: asphyxiant gas Physical: nonflammable	7800 lbs
Citric Acid	77-92-9	Reverse osmosis membrane cleaning	Health: causes irritation to the skin, gastrointestinal tract, and respiratory tract Physical: slightly flammable	350 pounds
Cleaning Chemicals	Various	Cleaning	Health: refer to individual chemical labels Physical: refer to individual chemical labels gallons liquids or 100	Varies (less then 25 gallons liquids or 100 pounds solids for each chemical)
Cleaning Chemicals/ Detergents	None	Periodic cleaning of combustion turbine	Health: refer to individual chemical labels Physical: refer to individual chemical labels	110 gallons
Corrosion Inhibitor (365 Amine)	2008-38-1 (Amine solution)	Corrosion inhibitor	Health: harmful if swallowed; causes severe eye damage Physical: nonflammable	105 gallons
Diesel fuel #2	68476-34-6	Small equipment re-fueling	Health: may be carcinogenic via skin absorption, inhalation of fumes, and ingestion. Inhalation may cause nervous system effects Physical: flammable	360 gallons
EPA Protocol Gases	Various	Calibration gases	Health: refer to individual chemical labels Physical: refer to individual chemical labels	8570 cu ft
Hydraulic Oil	None	High-pressure combustion turbine starting system, turbine control valve actuators	Health: hazardous if ingested Physical: combustible	175 gallons
Laboratory Reagents	Various	Water/wastewater laboratory analysis	Health: refer to individual chemical labels Physical: refer to individual chemical labels	130 pounds
Lead acid batteries	Exempt from list if sealed			
Lithium Bromide	7550-35-8	Corrosion Inhibitor	Health: harmful if swallowed; causes serious eye damage Physical: non-combustible	1510 gallons
Lubrication Oil	----	Lubrication	Health: hazardous if ingested Physical: flammable	15,280 gallons



HAZ -1, HAZARDOUS MATERIALS FOR ALMOND 2 POWER PLANT				
Material	CAS No.	Application	Hazardous Characteristics	Maximum Quantity On Site
Mineral Insulating Oil	8012-95-1	Transformers/switch yard	Health: minor health hazard Physical: can be combustible depending on manufacturer	39,500 gallons (in numerous transformers)
Nalco 3DT-283 Cooling Treatment (5-10% phosphoric acid)	7664-38-2	Corrosion control	Health: corrosive, may cause tissue damage Physical: non-flammable	110 gallons
Oxygen	7782-44-7	Welding gas	Health: therapeutic overdoses can cause convulsions Physical: oxidizing agent; actively supports combustion	562 cubic feet
Oxygen scavenger Nalco Elimin-Ox (Carbohydrazide)	497-18-7	For water conditioning	Health: may cause mild irritation Physical: non-flammable	75 gallons
Paint	Various	Touchup of painted surfaces	Health: refer to individual container labels Physical: refer to individual container labels	Varies (less than 25 gallons liquids or 100 pounds solids for each type)
Propylene Glycol	57-55-6	Anti-icing system	Health: hazardous if ingested Physical: combustible	2,800 gallons (contained within equipment)
Sodium Bisulfite (NaHSO <sub>3</sub> )	7631-90-5	Reduce oxidizers in reverse osmosis feed to protect the RO membranes	Health: corrosive, irritation to eyes, skin, and lungs; may be harmful if digested Physical: non flammable	110 gallons
Sodium Hydroxide (NaOH), 50% Solution	1310-73-2	Convert CO <sub>2</sub> to alkalinity for removal by reverse osmosis	Health: causes eye and skin burns, hygroscopic, may cause severe respiratory tract irritation with possible burns may cause severe digestive tract irritation with possible burns Physical: non flammable	110 gallons
Sodium Hypochlorite (aqueous solution)	7681-52-9	Biological control	Health: corrosive to respiratory system if inhaled, to digestive system if ingested, to skin, and to eyes. Physical: nonflammable	110 gallons
Sulfuric acid (93%)	7664-93-9	pH control	Health: causes severe burn on contact Physical: non-flammable	325 gallons

## APPENDIX D

### Annual Water Use Summary

Appendix D - Water Use Summary

Water Usage at A2PP from City of Ceres			
August 1, 2017 to July 31, 2018			
MONTH-YEAR	Monthly Total (gallons)	Monthly Total (Acre-Feet)	Monthly Average of Daily Water Usage (gallons per day)
August-2017	2,505,078	7.69	80,809
September-2017	2,487,352	7.63	82,912
October-2017	617,360	1.89	19,915
November-2017	729,122	2.24	24,304
December-2017	2,223,363	6.82	71,721
January-2018	315,917	0.97	10,191
February-2018	681,227	2.09	24,330
March-2018	148,074	0.45	4,777
April-2018	246,059	0.76	8,202
May-2018	844,790	2.59	27,251
June-2018	2,021,412	6.20	67,380
July-2018	2,751,530	8.44	88,759
YEAR TOTAL	15,571,282	47.79	

1 Acre-Foot = 325,851 gallons

# APPENDIX E

## WASTE-6

## Appendix E – Waste-6

Quantities reported below include the Almond 2 Power Plant and the co-located Almond 1 Power Plant.

<b>Waste</b>	<b>Estimated Quantity<sup>1</sup></b>	<b>Quantity during Reporting Period</b>	<b>Disposal<sup>2</sup></b>
Office Waste (paper, wood, glass, plastics, traditional “waste”)	4-yard dumpster weekly	6 Yard dumpster is emptied once a week and is usually half full.	Local municipal trash pickup
Uniform Hazardous Waste - Construction	Non-operational waste. No estimated quantity.	None	Recycle if possible, or dispose at approved landfill.
Universal Waste (Fluorescent lamp, small batteries)	200 pounds per year	None	Recycle if possible, or dispose at approved landfill.
Scrap Metal	1,000 pounds per year	Less than 1000 pounds	Recycle if possible, or dispose of at local landfill
Lubricating Oil	200 pounds per year	300 gallons	Cleaned up using sorbent and rags— disposed of by certified oil recycler
Lubricating Oil Filters/Oily Rags/Oil Sorbents	Combined total of 600 pounds per year	100 pounds	Recycled or disposed of by certified oil recycler
Laboratory Analysis Waste	100 gallons per year	Less than 100 gallons	Sent to waste water tank
Water Wash Waste	4,000 gallons per year	2550 gallons	Recycled or disposed of by certified oil recycler
Oxidation Catalyst Units	9,500 pounds per year	15 pounds	Recycled by SCR manufacturer
SCR Catalyst Units	40,645 Pounds per year	None	Recycled by SCR manufacturer or disposed of in Class I landfill

**Notes:**

1. Estimated quantity is from the Operational Waste Management Plan for the Almond 2 Power Plant.
2. Disposal methods are consistent with the Operational Waste Management Plan for the Almond 2 Power Plant.

## APPENDIX F

### Filings Made to Other Agencies

Appendix F - Filings Made to Other Governmental Agencies

DATE	SUBJECT	AGENCY	FACILITY NAME
August 10, 2017	Submission of Source Test Results - A2PP Units 2, 3, and 4.	SJVAPCD USEPA	Almond 2 Power Plant
October 6, 2017	Quarterly EDR submittal	USEPA	Almond 2 Power Plant
October 19, 2017	Quarterly CEMS Reports: A2PP Units 2, 3, and 4.	SJVAPCD	Almond 2 Power Plant
November 17, 2017	Toxic Emission Inventory Report (TEIR)	SJVAPCD	Almond 2 Power Plant
December 21, 2017	Title V Breakdown - Deviation and Excess Emissions Report	SJVAPCD	Almond 2 Power Plant
January 10, 2018	Quarterly CEMS Reports: A2PP Units 2, 3, and 4	SJVAPCD	Almond 2 Power Plant
January 16, 2018	Title V Report of Required Monitoring	SJVAPCD	Almond 2 Power Plant
January 22, 2018	Title V Compliance Certification	SJVAPCD	Almond 2 Power Plant
January 29, 2018	Quarterly EDR submittal	USEPA	Almond 2 Power Plant
February 14, 2018	Emission Inventory	SJVAPCD	Almond 2 Power Plant
March 8, 2018	Title V Breakdown - Deviation and Excess Emissions Report	SJVAPCD	Almond 2 Power Plant
March 27, 2018	Hazardous Materials Business Plan	Stanislaus County / CEMS	Almond 2 Power Plant
March 29, 2018	NOV 5019615 - Description of Corrective Action Taken	SJVAPCD	Almond 2 Power Plant
April 6, 2018	Quarterly EDR submittal	USEPA	Almond 2 Power Plant
April 10, 2018	Quarterly CEMS Reports: A2PP Units 2, 3, and 4	SJVAPCD	Almond 2 Power Plant
May 8, 2018	NOV 5019615 - Proposed Settlement	SJVAPCD	Almond 2 Power Plant
May 10, 2018	Source Emissions Test Notice and Protocol	SJVAPCD USEPA	Almond 2 Power Plant
May 30, 2018	Source Emissions Test Schedule	SJVAPCD USEPA	Almond 2 Power Plant
July 9, 2018	Quarterly CEMS Reports: A2PP Units 2, 3, and 4	SJVAPCD	Almond 2 Power Plant
July 25, 2018	Title V Report of Required Monitoring	SJVAPCD	Almond 2 Power Plant
July 25, 2018	Quarterly EDR submittal	USEPA	Almond 2 Power Plant

## APPENDIX G

### Permits Issued by Other Agencies



## Appendix G - Permit Issued by Other Agencies

Below is a list of permits issued by other governmental agencies during the reporting period 8/1/2017 to 7/31/2018:

Date	Subject	Issuing Agency
<b>NONE</b>		

## APPENDIX H

### Scheduled Compliance Activities



## APPENDIX I

### Notice of Violation Notices and Responses



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



Tuesday, March 20, 2018

CERTIFIED MAIL

George Davies IV  
TURLOCK IRRIGATION DISTRICT  
PO BOX 949  
TURLOCK, CA 95381

RE: Notice of Violation # 5019615

Dear Mr. Davies,

TURLOCK IRRIGATION DISTRICT requested breakdown relief on 12/19/2017 for the (N-3299-5-2) located at 4500 CROWS LANDING ROAD. According to the 10-day follow-up report and subsequent information, the failure was due to REASON.

After a careful review, the District has determined that this equipment failure does not qualify for breakdown relief as per District Rule 1100, due to the fact that root cause of the violation was due to operator error. In light of this fact, you are hereby issued Notice of Violation # 5019615 for exceeding allowable CO emissions.

If you have any questions please contact me or Jessica L Mohatt at (209) 557-6416.

Sincerely,

Michael G Hamaguchi  
Supervising Air Quality Inspector

RECEIVED

MAR 27 2018

TID Combustion Turbine



**SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT**

Northern Region Office  
4800 Enterprise Way  
Modesto, CA 95356-8718  
(209) 557-6400

Central Region Office  
1990 E Gettysburg Ave  
Fresno, CA 93726-0244  
(559) 230-5950

Southern Region Office  
34946 Flyover Court  
Bakersfield, CA 93308  
(661) 392-5500

**NOTICE OF VIOLATION**      **NO. 5019615**

**ISSUED TO:**

**NAME:** Turlock Irrigation District  
**ADDRESS:** PO Box 949  
**CITY:** Turlock  
**PHONE:** (209) 883-8408

**PERMIT/FACILITY:** N-3299  
**PERMITS:** 5-2  
**STATE:** CA      **ZIP:** 95381

**OCCURRENCE LOCATION:**

**NAME:** Turlock Irrigation District  
**ADDRESS:** 4500 Crows Landing Road  
**CITY:** Modesto  
**DATE:** December 19, 2017

Same as Above  
**STATE:** CA      **ZIP:** 95381  
**TIME:** 12:00 am

**THIS NOTICE HAS BEEN ISSUED AS A RESULT OF A VIOLATION OF:**

- San Joaquin Valley Unified Air Pollution Control District Rules and Regulation
- California Health and Safety Code / California Code of Regulations

**Rule(s)/Section(s):** 2070 - Standards for Granting Applications, 2201 - New and Modified Stationary Source Review Rule, 4001 - New Source Performance Standards, 4703 - Stationary Gas Turbines

**Equipment Type (If Applicable):** 523.2 MMBtu/hr Natural Gas-fired Turbine

**Description:** The 3-hr rolling average CO emissions exceeded 4.0 ppm @ 15% O2 and 4.89 lb/hr.

**RECIPIENT NAME:** \_\_\_\_\_ **TITLE:** \_\_\_\_\_

**SIGNING THIS NOTICE IS NOT AN ADMISSION OF GUILT**  \_\_\_\_\_  
**SIGNATURE**

RETURN A COPY OF THIS NOTICE WITH A WRITTEN DESCRIPTION OF THE IMMEDIATE CORRECTIVE ACTION YOU HAVE TAKEN TO PREVENT A CONTINUED OR RECURRENT VIOLATION.

***THIS VIOLATION IS SUBJECT TO SUBSTANTIAL PENALTY,  
YOUR RESPONSE DOES NOT PRECLUDE FURTHER LEGAL ACTION.***

ISSUED BY: Jessica Mohatt  
DATE: Tue March 20, 2018      TIME: 9:27 am       MAILED/EMAILED

# INSTRUCTIONS

**THIS VIOLATION IS SUBJECT TO SUBSTANTIAL PENALTY, AND YOUR RESPONSE DOES NOT PRECLUDE FURTHER LEGAL ACTION.**

**A VARIANCE SHOULD BE SOUGHT IF IT IS NECESSARY TO CONTINUE TO OPERATE IN VIOLATION OF DISTRICT REGULATIONS. A VARIANCE CANNOT BE GRANTED FOR OPERATING WITHOUT A PERMIT OR FOR ACTIVITIES WHICH CREATE A NUISANCE**

**FOR FURTHER INFORMATION ON ELIGIBILITY FOR, OR THE FILING OF A VARIANCE PETITION, CALL THE COMPLIANCE DIVISION AT THE INDICATED REGIONAL OFFICE**

## OPERATION WITHOUT A PERMIT

A permit application must be submitted immediately to the District's Permit Services Division. The permit application must reference the Notice of Violation number: 5019615.

If there are any questions regarding the submission of a permit application, contact the Permit Services Division at the indicated Regional office.

## ALL OTHER VIOLATIONS

Within 10 days, return a copy of this notice with a written description of the corrective action you have taken to prevent continued or recurrent violation. Immediate corrective action must be taken to stop the violation.

If you have any questions or require additional information, contact the Compliance Division at the indicated Regional Office for assistance.

*Para asistencia en Español, por favor llama a la oficina del Distrito del Aire a (559) 230-6000.*





March 29, 2018

**COPY**

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MAR 29 2018

SJVAPCD  
NORTHERN REGION

Ms. Jessica Mohatt  
San Joaquin Valley Air Pollution Control District  
Northern Region Office  
4800 Enterprise Way  
Modesto, CA 95356-8718

Subject: NOV No. 5019615 Issued to Turlock Irrigation District;  
Description of Corrective Action Taken

Dear Ms. Mohatt:

This letter responds to San Joaquin Valley Air Pollution Control District (SJVAPCD) Notice of Violation (NOV) No. 5019615 dated March 20, 2018 and issued to the Turlock Irrigation District (TID) Almond Power Plant (APP) located at 4500 Crows Landing Road in Modesto, California. The NOV was issued because “the 3-hr rolling average CO emissions exceeded 4.0 ppm @ 15% O<sub>2</sub> and 4.89 lb/hr,” an event that occurred on December 19, 2017. The NOV requires that TID return a copy of the NOV along with a written description of the immediate corrective action that was taken to prevent a continued or recurrent violation.

On December 19, 2017, TID staff together with the representatives of the turbine manufacturer, General Electric, were trouble-shooting problems with the water injection system and the Spray Intercooling (SPRINT®) system at APP Unit 3 (N-3299-5-2). During the trouble-shooting process, CO emissions rose due to excessive water injection. Staff and the manufacturer’s representatives were in contact with the control room and were made aware of the CO emissions rise and worked to reduce emissions as quickly as possible.

TID staff immediately responded to the high CO emissions resulting from these routine maintenance and repair activities and were able to reduce emissions back into compliance within an hour of detecting the problem. However, the single high hour of CO emissions resulted in three consecutive 3-hour average periods exceeding the CO emission standards in Permit N-3299-5-2 (4.0 ppm at 15% O<sub>2</sub> and 4.89 lb/hr, both on a 3-hour average basis).

Emission exceedances during routine turbine maintenance, repair, and tuning activities have not been a recurrent problem at this facility. These maintenance, repair, and tuning activities are necessary for the proper operation of the turbine and the turbine emission control equipment. TID has re-emphasized that these activities must be performed in such a way to ensure that there are no future recurrent emissions problems associated with turbine maintenance, repair, and tuning.



Excess emissions were less than 8 pounds of CO throughout this event, and the oxidation catalyst was in good working order during this event.

It is the practice of the Turlock Irrigation District to adhere to all of the Rules and Regulations of the SJVAPCD.

If you have any questions please call me at (209) 883-3451.

Sincerely,



George A. Davies IV  
Combustion Turbine Department Manager

Attachments: SJVAPCD NOV No. 5019615

cc: Michael Hamaguchi, SJVAPCD  
Jeff Adkins, Trinity Consultants



**SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT**

Northern Region Office  
4800 Enterprise Way  
Modesto, CA 95356-8718  
(209) 557-6400

Central Region Office  
1990 E Gettysburg Ave  
Fresno, CA 93726-0244  
(559) 230-5950

Southern Region Office  
34946 Flyover Court  
Bakersfield, CA 93308  
(661) 392-5500

**NOTICE OF VIOLATION**

**No. 5019615**

**ISSUED TO:**

**NAME:** Turlock Irrigation District  
**ADDRESS:** PO Box 949  
**CITY:** Turlock  
**PHONE:** (209) 883-8408

**STATE:** CA

**PERMIT/FACILITY:** N-3299  
**PERMITS:** 5-2  
**ZIP:** 95381

**OCCURRENCE LOCATION:**

**NAME:** Turlock Irrigation District  
**ADDRESS:** 4500 Crows Landing Road  
**CITY:** Modesto  
**DATE:** December 19, 2017

**STATE:** CA

**ZIP:** 95381

**TIME:** 12:00 am

Same as Above

**THIS NOTICE HAS BEEN ISSUED AS A RESULT OF A VIOLATION OF:**

- San Joaquin Valley Unified Air Pollution Control District Rules and Regulation
- California Health and Safety Code / California Code of Regulations

**Rule(s)/Section(s):** 2070 - Standards for Granting Applications, 2201 - New and Modified Stationary Source Review Rule, 4001 - New Source Performance Standards, 4703 - Stationary Gas Turbines

**Equipment Type (If Applicable):** 523.2 MMBtu/hr Natural Gas-fired Turbine

**Description:** The 3-hr rolling average CO emissions exceeded 4.0 ppm @ 15% O2 and 4.89 lb/hr.

**RECIPIENT NAME:** George Davies **TITLE:** CT. Dept. Mgr

**SIGNING THIS NOTICE IS NOT AN ADMISSION OF GUILT**  McLaurier **SIGNATURE**

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ISSUED BY: Jessica Mohatt  
DATE: Tue March 20, 2018  
TIME: 9:27 am  
 MAILED/EMAILED

# INSTRUCTIONS

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FOR FURTHER INFORMATION ON ELIGIBILITY FOR, OR THE FILING OF A VARIANCE PETITION, CALL THE COMPLIANCE DIVISION AT THE INDICATED REGIONAL OFFICE

## OPERATION WITHOUT A PERMIT

A permit application must be submitted immediately to the District's Permit Services Division. The permit application must reference the Notice of Violation number: 5019615.

If there are any questions regarding the submission of a permit application, contact the Permit Services Division at the indicated Regional office.

## ALL OTHER VIOLATIONS

Within 10 days, return a copy of this notice with a written description of the corrective action you have taken to prevent continued or recurrent violation. Immediate corrective action must be taken to stop the violation.

If you have any questions or require additional information, contact the Compliance Division at the indicated Regional Office for assistance.

*Para asistencia en Español, por favor llama a la oficina del Distrito del Aire a (559) 230-6000.*



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



April 2, 2018

George Davies IV  
Turlock Irrigation District  
P.O. Box 949  
Turlock, CA 95381

**Subject: Notice of Violation # 5019615**

Mr. Davies:

The San Joaquin Valley Unified Air Pollution Control District (District) is in receipt of your letter dated March 29, 2018, which addressed the events, activities, and actions taken with regards to excess CO emissions from Unit 3 (N-3299-5-2).

Because this matter is currently under review, your letter will be forwarded to the District's Mutual Settlement Program for consideration along with documentation prepared by the issuing Inspector. After all information has been reviewed, the District's Mutual Settlement Program staff will send a letter proposing a resolution to this violation.

If you have any questions or require additional information regarding this matter, please contact me at (209) 557-6400.

Sincerely,

A handwritten signature in blue ink, appearing to read "M. Hamaguchi".

Michael Hamaguchi  
Supervising Air Quality Inspector

RECEIVED

APR - 5 2018

TID Combustion Turbine





April 23, 2018

George Davies  
Turlock Irrigation District  
PO Box 949  
Turlock, CA 95381

**RE: NOTICE OF VIOLATION & PROPOSED SETTLEMENT**

**CASE NUMBER: N18-0245**  
**NOV NUMBER: 5019615**  
**PERMIT NUMBER: N-3299-5-2**

Dear George Davies:

On December 21, 2017 staff from the San Joaquin Valley Air Pollution Control District(District) conducted a records review of Turlock Irrigation District, 4500 Crows Landing Road in Modesto. During the review staff discovered that on December 19, 2017 the 3-hr rolling average CO emissions exceeded the 4.0 ppm @ 15% O<sub>2</sub> and 4.89 lb/hr emissions limits specified in Permit to Operate N-3299-5-2.

In light of the above, it has been determined that you are in violation of District Rule 2070 - Standards for Granting Applications, 2201 - New and Modified Stationary Source Review Rule, 4001 - New Source Performance Standards, 4703 - Stationary Gas Turbines.

California Health & Safety Code (CH&SC) Section 42402.1 specifies that the penalty for such violations can include civil penalties of up to \$25,000.00 for each day of each violation. The monetary amount of the District's offer specified below takes into account the magnitude and severity of the violation, as well as the prior history of violations of a similar nature. All parties, whether private, commercial, or governmental, are treated similarly in the settlement process, with any settlements offered being based upon an evaluation of the same factors and criteria in all cases.

Parties interested in resolving this matter may do so in accordance with the District's settlement policy as follows:

1. Payment of a civil penalty in the amount of \$1,000.00, in accordance with CH&SC section 42400.7, recovery of a civil penalty precludes further prosecution for this violation.

2. In the event any further violations occur, the District may offer evidence to prove the facts of the current violation(s) in connection with any petition for a variance, permit revocation, abatement order before the District Hearing Board, or other legal proceeding. Similarly, you may raise any defenses or contrary proof you may have concerning the facts of current violation(s).
3. Entering into this settlement shall not constitute an admission of violating District Rules nor shall it be inferred to be such an admission in any administrative or judicial proceeding.
4. As an alternative to paying the entire penalty in one payment, the District is willing to discuss your situation and arrange a payment schedule in order to resolve this case.

If the above terms are acceptable, please remit payment by check or money order in the amount of **\$1,000.00** to:

San Joaquin Valley Unified Air Pollution Control District  
Attn: Finance  
1990 E Gettysburg Ave  
Fresno, CA 93726-0244

Please write Case Number N18-0245 on your check and use the yellow envelope provided. You may also pay online by going to [www.valleyair.org](http://www.valleyair.org), click on "Online Bill Payment" and "Make Payments." You will need your case number and mailing zip code.

This letter constitutes an offer of settlement. If you wish to discuss this case with District personnel, please **contact Shannon Moore** at (559) 230-5999.

If the District does not receive correspondence or payment **within 14 days**, it is assumed that you are not interested in resolving this matter and the case will be referred to District Legal Counsel for further action, which can include civil penalties of up to \$25,000.00 per day for each day you were in violation.

Sincerely,

  
Clay Bishop  
Supervising Air Quality Specialist

IF YOU HAVE ANY LEGAL QUESTIONS REGARDING SETTLEMENT, PENALTIES, OR PROCEDURES, YOU SHOULD SEEK THE ADVICE OF YOUR ATTORNEY.

RECEIVED

APR 26 2018



May 8, 2018

**COPY**

RECEIVED

MAY 08 2018

SJVAPCD  
NORTHERN REGION

San Joaquin Valley Unified Air Pollution Control District  
Attn: Finance / Mr. Clay Bishop  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244

**SUBJECT: NOTICE OF VIOLATION AND PROPOSED SETTLEMENT**  
**CASE NUMBER: N18-0245**  
**NOV NUMBER: 5019615**  
**PERMIT NUMBER: N-3299-5-2**

Dear Mr. Bishop:

We are in receipt of your letter dated April 23, 2018, regarding the proposed settlement of Case Number N18-0245 for the Notice of Violation (NOV) No(s). 5019615. We wish to settle this matter in accordance with the District's settlement policy and your proposed settlement, enclosed please find Check Number 373545 for \$1000.00.

If you have any questions please call me at (209) 883-3451.

Sincerely,

George A. Davies, IV  
Combustion Turbine Department Manager  
Turlock Irrigation District

cc: Jeff Adkins, Sierra Research  
File

SAN JOAQUIN VALLEY

UNIFIED APCD

4800 Enterprise Way  
Modesto, CA 95356-9322

**CASH RECEIPT**

Date 5/08 20 18

**310186**

Received From Turlock Irrigation District

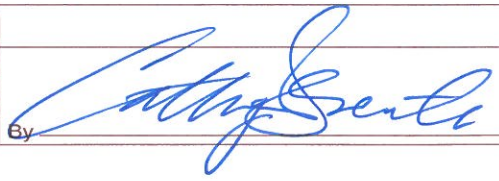
Address P.O. Box 949 Turlock CA 95381

Dollars \$ 1,000.00

For NOV 5019615

CHK# 373545

ACCOUNT		HOW PAID	
AMT. OF ACCOUNT		CASH	
AMT. PAID	<u>1000 00</u>	CHECK	<input checked="" type="checkbox"/>
BALANCE DUE		MONEY ORDER	

By 





May 17, 2018

George Davies  
Turlock Irrigation District  
PO Box 949  
Turlock, CA 95381

**RE: NOTICE OF VIOLATION & PROPOSED SETTLEMENT**  
**CASE NUMBER: N18-0245**  
**NOV NUMBER: 5019615**  
**PTO NUMBER: N-3299**  
**LOCATION: 4500 Crows Landing Road, Modesto, CA**

Dear George Davies:

On May 09, 2018, the District received check number 373545 in the amount of \$1,000.00. The District considers Case number N18-0245 settled and closed.

Thank you for your cooperation in settling this matter.

Sincerely,

Shannon Moore  
Air Quality Specialist II  
Mutual Settlement Group

SM/lv

**RECEIVED**

MAY 22 2018

TID Combustion Turbine