DOCKETED	
Docket Number:	01-AFC-25C
Project Title:	Malburg Generating Station-Compliance
TN #:	241330
Document Title:	Malburg Generating Station Annual Compliance Report 2021
Description:	N/A
Filer:	Elyse Engel
Organization:	Jacobs Engineering Group Inc.
Submitter Role:	Applicant
Submission Date:	1/28/2022 5:10:37 PM
Docketed Date:	1/28/2022

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January 28, 2022

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Subject: COM-8: 2021 Annual Compliance Report
January 1, 2021 through December 31, 2021
Malburg Generating Station (01-AFC-25C)

Dr. Ali,

Attached please find the 2021 Annual Compliance Report for the Malburg Generating Station (01-AFC-25C), compiled in accordance with Condition of Certification COM-8 of the Final Commission Decision for the Malburg Generating Station (TN #28746), as most recently amended on June 20, 2019 by the Errata to Staff Analysis of Petition to Amend the Final Commission Decision (TN #228444). Documents required by specific conditions are provided as attachments to this Annual Compliance Report and are identified in Table 4-1 of the Annual Compliance Report.

Please note that, effective December 14, 2021, the City of Vernon, Public Utilities Department is the new owner and operator of the Malburg Generating Station. A Petition to Change Ownership was filed with the California Energy Commission on December 15, 2021 (TN #240950). Accordingly, if you have any questions or need more information, please contact Matt Richards, Utilities Operations Manager, at MRichards@cityofvernon.org or (323) 583-8811 x378 moving forward.

Sincerely,

Rich Olsen
Assistant General Manager of Generation & Operations
City of Vernon, Public Utilities Department

Enclosure: 2021 MGS Annual Compliance Report

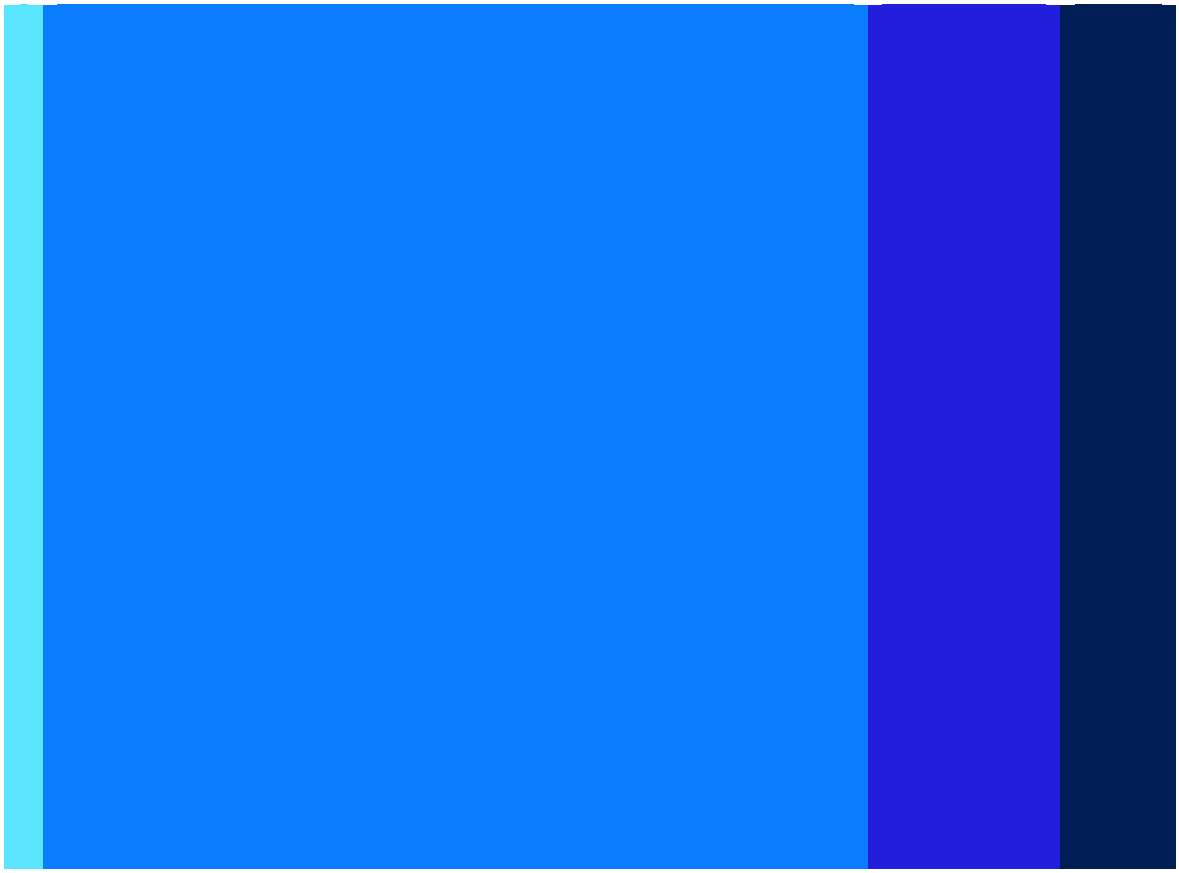
Malburg Generating Station 2021 Annual Compliance Report: January 1, 2021 – December 31, 2021

Submitted to
California Energy Commission

Submitted by
City of Vernon, Public Utilities Department

January 28, 2022

Document no: PPS0127221800SJC
Revision no: 0



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Acronyms and Abbreviations

ACR	Annual Compliance Report
VPU	City of Vernon, Public Utilities Department
MGS	Malburg Generating Station
COC	Condition of Certification
CEC's	California Energy Commission's
CTGs	combustion turbine generators
STG	steam turbine generator
CPM	Compliance Project Manager
SCR	Selective Catalytic Reduction
HMBP	Hazardous Materials Business Plan
SCAQMD	South Coast Air Quality Management District
NPDES	National Pollutant Discharge Elimination System
RWQCB	Los Angeles Regional Water Quality Control Board
DTSC	California Department of Toxic Substances Control
DIR	California Department of Industrial Relations
ACC	Annual Compliance Certification
EPA	United States Environmental Protection Agency
SAM	Semi-Annual Monitoring
RECLAIM	Regional Clean Air Incentives Market
NOx	nitrogen oxides
QCER	Quarterly Certification of Emission Reports
APEP	Annual Permit Emissions Program
EDRs	Electronic Data Reports
AER	Annual Emissions Report
CARB	California Air Resources Board
LACSD	Los Angeles County Sanitation Districts
EIA	Energy Information Administration
CEMS	Continuous Emissions Monitoring System
DIQ	Discharger Identification Questionnaire

1. Introduction

This Annual Compliance Report (ACR) has been prepared by the City of Vernon, Public Utilities Department (VPU) for the Malburg Generating Station (MGS; 01-AFC-25C) in accordance with Condition of Certification (COC) COM-8 of the California Energy Commission's (CEC's) Final Commission Decision for the MGS (TN #28746), as most recently amended on June 20, 2019 by the Errata to Staff Analysis of Petition to Amend the Final Commission Decision (TN #228444).

1.1 Project Location and Description

MGS is located at 4963 S Soto Street in Vernon, California. The property is approximately 3.4 acres in size, located in an industrial land use area near the geographic center of metropolitan Los Angeles County. MGS consists of two Siemens SGT-800 frame type natural gas combustion turbine generators (CTGs), two heat recovery steam generators, a steam turbine generator (STG), a cooling tower, a diesel-fired emergency firewater pump, and support equipment.

The commissioning of MGS was completed in October 2005 and the power plant began commercial operation on October 17, 2005.

1.2 Organization of the Annual Compliance Report

This report follows the structure of COC COM-8, which requires the submittal of ACRs containing eleven listed components. Each ACR component is addressed in a separate section of this report. A summary of the compliance demonstration for each annual COC is provided in Section 4. Documents required by specific conditions are provided as attachments to the ACR and identified in Table 4-1. Additional sections are included where information beyond the brief responses provided in Table 4-1 is needed to demonstrate compliance with annual COCs.

2. Updated Compliance Matrix (COM-6, COM-8)

A copy of the updated MGS – CEC Commission Decision Compliance Matrix is provided in Appendix A, as described in Table 4-1 under COC COM-6.

3. Summary of Current Project Operating Status (COM-8)

The facility was fully operational during the reporting period. The following significant change was made to facility operations during that time:

- Effective December 14, 2021, VPU reacquired MGS from the previous owner Bicent (California) Malburg LLC. A Petition to Change Ownership was submitted to the CEC on December 15, 2021 (TN #240950).

Although the facility's owner/operator has changed, day-to-day operations of the facility have remained constant.

4. Required Annual Compliance Report Documentation (COM-8)

COC requirements associated with this ACR are summarized in the table below.

Table 4-1. Required Annual Compliance Report Documentation

Condition of Certification	Response
COM-4	A cover letter has been included with this ACR and the subject line includes the appropriate COC number(s) and a brief description of the subject, as required.
COM-4	This ACR was submitted electronically by e-mail, as requested by the Compliance Project Manager (CPM).
COM-6	The updated MGS – CEC Commission Decision Compliance Matrix is provided in Appendix A and includes the technical area, condition number, a brief description of the verification action or submittal required by the condition, the date the submittal is required, the expected and/or actual submittal date, the date a submittal or action was approved, and the compliance status of each condition, as required.
COM-8	This ACR was submitted by the date agreed to by the CPM and identifies the reporting period.
COM-8	An updated compliance matrix has been included in Appendix A and shows the status of all COCs (fully satisfied conditions may be excluded from the compliance matrix upon being reported as completed).
COM-8	A summary of the current project operating status and an explanation of any significant changes to facility operations during the year is included in Section 3 of this ACR.
COM-8	Documents required by specific conditions are provided as attachments to this ACR and are identified in this table, as referenced in the cover letter, with the condition(s) they satisfy.
COM-8	A cumulative list of all approved post-certification changes is included in Section 5 of this ACR.
COM-8	An explanation for any submittal deadlines that were missed, accompanied by an estimate of when the information will be provided, is included in Section 6 of this ACR.
COM-8	A listing of filings submitted to, or permits issued by, other governmental agencies during the year is included in Section 7 of this ACR.
COM-8	A projection of project compliance activities scheduled during the next year is included in Section 8 of this ACR.
COM-8	A listing of the year's additions to the on-site compliance file is included in Section 9 of this ACR.
COM-8	An evaluation of the On-Site Contingency Plan was performed and is described in Section 10 of this ACR, along with any recommended updates.
COM-8	A listing of complaints, notices of violation, official warnings, and citations received during the year, a description of how the issues were resolved, and the status of any unresolved issues is included in Section 11 of this ACR.
COM-8	A listing of all outages planned for the coming year, including the anticipated duration and the reason for each outage, and a listing of all outages that occurred during the previous year are included in Section 12 of this ACR.
COM-14	See the response to COM-8 above.
AQ-19	The 2021 annual calibration report for the ammonia flow meter is provided in Appendix B.
AQ-20	The 2021 annual calibration report for the Selective Catalytic Reduction (SCR) Temperature Gauge is provided in Appendix C.
AQ-21	The 2021 annual calibration report for the SCR Pressure Gauge is provided in Appendix D.
AQ-35	The date of operation, the elapsed time in hours, and the reason for operation of the diesel-fired emergency firewater pump are provided in Appendix E of this ACR. MGS refrained from testing the diesel-fired emergency firewater pump during the same hour that the CTGs were either started or shutdown.
HAZ-1	A copy of MGS' current hazardous materials inventory is included in Appendix F of this ACR.
HAZ-6	Gas pipeline review required under COC HAZ-6 is only required every 5 years. This review was most recently completed in 2020 and is not included again with this ACR.
HAZ-7	Seismic event inspections required under COC HAZ-7 are only required every 5 years. These inspections were most recently completed in 2020 and are not included again with this ACR.

Condition of Certification	Response
WASTE-4	Actual waste management methods used during the year were consistent with planned management methods. Additional details are provided in Appendix J.
SOIL & WATER-4	An annual water use summary including the monthly range and monthly average of daily usage in gallons per day, the total water used by the project on a monthly and annual basis in acre-feet, and the yearly range and yearly average water use by the project is provided in Appendix H.
SOIL & WATER-5	A summary of all potable water and reclaimed water used for process water during the reporting period is provided in Appendix G. Potable water was not used for process water more than 9 days during the reporting period.
CUL-8	A Station "A" Maintenance Summary Report for the reporting period is provided in Appendix G.
VIS-1	No complaints regarding permanent lighting were received during the reporting period.
VIS-2	All project structures on the MGS site are matching in color to the pre-existing structure of Station "A". No maintenance activities requiring paint reapplication were conducted during the reporting period.
VIS-3	Landscaping and tree maintenance activities performed during the reporting period are as described in the Station "A" Maintenance Summary Report provided in Appendix G.

5. Approved Post-Certification Changes (COM-8)

No post-certification changes were approved by the CEC or cleared by the CPM during the reporting period and only one post-certification change was initiated during the reporting period, as follows:

- *Petition for Change in Ownership and Operational Control of Malburg Generating Station* was submitted to the CEC on December 15, 2021 (TN #240950).

Prior to this reporting period, the following post-certification changes were initiated, approved by the CEC, or cleared by the CPM, as indicated:

- *Request for Modification of Project Description* was approved by the CEC on December 24, 2003 (TN #30659)
- *Petition to Add Additional Construction Fabrication Area* was submitted on July 2, 2004 (TN #32321) and approved by the CEC on October 8, 2004 (TN #233499)
- *Exemption Request for the Malburg Generating Station* was approved by the CEC on October 22, 2004 (TN #32580)
- *Request to Change Verification Due Dates* was approved by the CEC on August 19, 2005 (TN #35308)
- *Petition to Modify Condition AQ-C10 Regarding Air Emission Limits Related to Cold Startups* was submitted on December 19, 2007 (TN #43854) and approved by the CEC on August 13, 2008 (TN #47579)
- *Petition of Bicent (California) Malburg LLC for Change in Ownership and Operational Control* was submitted on April 10, 2008 (TN #45880) and approved by the CEC on May 21, 2008 (TN #46462)
- *Request to Increase Size of Hypochlorite and Sulfuric Acid Tanks, Malburg Generating Station Project as Allowed by Condition of Certification HAZ-1* was submitted on April 24, 2009 and approved by the CEC on June 1, 2009 (TN #233502)
- *Petition to Amend Air Quality Conditions of Certification for the Malburg Generating Station* was submitted on May 15, 2013 (TN #70938) and approved by the CEC on February 18, 2014 (TN #201826)
- *Petition to Amend, Malburg Generating Station, A+ Turbine Upgrade* was submitted on November 21, 2017 (TN #221848) and approved by the CEC on June 12, 2019 (TN #228800)

- *Request for Authorization to Install Turbine Upgrade Components* was submitted on February 21, 2018 (TN #222641) and approved by the CEC on March 5, 2018 (TN #222876)
- *Petition to Amend, Malburg Generating Station, Site Delineation* was submitted on February 4, 2019 (TN #226450)

6. Missed Submittal Deadlines (COM-8)

The following submittal deadlines were missed during the reporting period:

- The Hazardous Materials Business Plan (HMBP) was submitted to the City of Vernon, Health and Environmental Control Department on May 19, 2021, which is after the March 1, 2021 deadline.
- COC COM-12 requires MGS to submit copies of all complaints, notices of violation, notices of fines, official warnings, and citations to the CPM within 10 days of receipt. As described in Section 11 below, a notice of violation was received from the City of Vernon, Health and Environmental Control Department on May 18, 2021. A copy of this notice was not provided to the CPM within 10 days, as required, but has been included with this ACR in Appendix J.

7. Filings or Permits for Other Agencies (COM-8)

7.1 Permits

The following permits were issued by other governmental agencies during the reporting period:

- Title V Facility Permit to Operate, Bicent (California) Malburg LLC, Facility ID 155474, Revision #20. Issued by the South Coast Air Quality Management District (SCAQMD) on August 12, 2021.
- Industrial Stormwater Permit (National Pollutant Discharge Elimination System [NPDES]), City of Vernon, Waste Discharger Identification No. 4 19I029532. Issued by the Los Angeles Regional Water Quality Control Board (RWQCB) on December 13, 2021.
- City of Vernon, California Hazardous Waste Identification No. CAL000467227. Issued by the California Department of Toxic Substances Control (DTSC) in December 2021.
- Permits to Operate Air Pressure Tanks, Vernon Public Utilities, State Serial Nos. A010115-05, A010114-05, A010123-05, A010124-05, A010125-05, A010126-05, A010127-05, and A010128-05. Issued by the California Department of Industrial Relations (DIR) on December 22, 2021.

7.2 Filings

The following routine compliance filings were submitted to other governmental agencies during the reporting period:

- Title V, Annual Compliance Certification (ACC) to SCAQMD and the United States Environmental Protection Agency (EPA)
- Title V, Semi-Annual Monitoring (SAM) Reports to SCAQMD
- Under the Regional Clean Air Incentives Market (RECLAIM) Program:
  - Daily and monthly electronic nitrogen oxides (NOx) emission reports to SCAQMD for MGS' major sources
  - Quarterly Certification of Emission Reports (QCER) to SCAQMD for MGS' major, process, and Rule 219 exempt sources
  - Annual Permit Emissions Program (APEP) report to SCAQMD

- Quarterly Code of Federal Regulations, Title 40, Part 75 (40 CFR 75) Electronic Data Reports (EDRs) to EPA
- Annual Emissions Report (AER) to SCAQMD
- Annual Greenhouse Gas Emissions reporting to the California Air Resources Board (CARB) and EPA
- Source testing notification and test report(s) to SCAQMD
- Annual Storm Water Discharge Report to the Los Angeles RWQCB
- Annual Wastewater Treatment Surcharge Long Form to the Los Angeles County Sanitation Districts (LACSD)
- Semi-Annual Industrial Wastewater Monitoring Reports to LACSD
- Monthly and Annual Form EIA-923 to the Energy Information Administration (EIA)
- Annual Form EIA-860 to EIA
- 24-month Schedule Outage Notification to the California Independent System Operator (CAISO)
- Annual HMBP Certification in the California Environmental Reporting System (CERS)

As a result of the change of ownership, the following one-time filings were also submitted to other governmental agencies during the reporting period:

- Request for Renewal of "Permit(s) to Operate", submitted to the DIR on November 29, 2021.
- Permanent State Identification No. Application (Form 1358), submitted to DTSC on December 2, 2021.
- Industrial Stormwater Permit (NPDES) Notice of Intent and supporting documentation, submitted to the Los Angeles RWQCB on December 8, 2021.
- Continuous Emissions Monitoring System (CEMS) Change of Ownership Application, submitted to SCAQMD on December 14, 2021.
- Title V Responsible Official Change, submitted to SCAQMD on December 14, 2021.
- RECLAIM Trading Account Representative and Transaction Registration, submitted to SCAQMD on December 14, 2021.
- Title V Permit and RECLAIM Program Administrative Change Application for Change of Ownership, submitted to SCAQMD on December 20, 2021.
- Certificate of Representation for the Acid Rain Program, submitted to EPA on December 16, 2021.
- Discharger Identification Questionnaire (DIQ), submitted to LACSD on December 29, 2021.[1]

8. Scheduled Compliance Activities for January 1, 2022 to December 31, 2022 (COM-8)

Compliance activities scheduled for the next reporting period include, but are not limited to, the following:

- Annual Compliance Reports
- Semi-Annual Compliance Reports
- Quarterly Compliance Reports
- Daily and Monthly NOx Emission Reports

[1] Note that submittal of the DIQ notifies LACSD of the need to conduct a site inspection and issue a temporary Industrial Wastewater Discharge Permit. After the temporary permit is issued, VPU will submit an application for a new Industrial Wastewater Discharge Permit.

- Air emission and water source testing
- Updates to the On-Site Contingency Plan, as needed
- Responding to, and maintaining records of, complaints, incidents, and violations
- Building and landscaping maintenance

9. Additions to the On-site Compliance File (COM-8)

All of the items noted in Section 7, which were submitted to agencies other than the CEC, as well as those items submitted to the CEC, have been added to the on-site compliance file.

10. Evaluation of the On-Site Contingency Plan (COM-8)

As a result of the recent change of ownership, MGS' On-Site Contingency Plan will be updated in the first quarter of 2022 to reflect changes to the facility owner, facility operator, responsible individuals, etc. At this time, the plan, including insurance coverage and major equipment warranties, will be reviewed in its entirety to identify and enact other necessary updates, if any.

11. Complaints, Notices, Warnings, Citations and Fines (COM-8)

Complaints, notices of violation, official warnings, and citations received during the reporting period are summarized in the table below.

Table 11-1 Complaints, Notices, Warnings, Citations and Fines Received

Date Received	Agency	Type	Nature	Status
May 18, 2021	City of Vernon, Health and Environmental Control Department	Notice of Violation	Failure to complete and electronically submit a business plan for calendar year 2021 when storing/handling a hazardous material at or above reportable quantities. [Health & Safety Code 6.95 25525, 25508(a)(1)]	Resolved on May 19, 2021 with electronic submittal of the HMBP.

12. Facility Outages (COM-8)

12.1 2021 Outages

The following outages occurred during the reporting period:

- February 28, 2021 from 00:00 to 14:43; CTG 2 scheduled water wash, followed by forced outage.
- March 26, 2021 from 00:00 to April 1, 2021 at 00:00; CTG 1, CTG 2, and STG spring outage, preceded and followed by forced outage.
- May 30, 2021 from 00:00 to 10:00; CTG 2 scheduled outage for water wash.
- June 13, 2021 from 00:00 to 13:32; CTG 2 scheduled outage for water wash.
- August 27, 2021 from 00:00 to August 28, 2021 at 18:22; CTG 2 scheduled outage for water wash, catalyst cleaning, desuperheater spray valve rebuild, and pump #2 variable-frequency drive replacement.
- September 18, 2021 from 00:00 to 17:00; CTG 1 scheduled outage for water wash, followed by reserve shutdown.

- November 10, 2021 from 00:00 to November 11, 2021 at 15:41; CTG 2 scheduled outage for borescope inspection, followed by reserve shutdown.
- November 11, 2021 from 00:00 to November 12, 2021 at 17:10; CTG 1 scheduled outage for borescope inspection.
- December 6, 2021 from 00:00 to December 10, 2021 at 00:00; CTG 1, CTG 2, and STG fall outage, followed by reserve shutdown.

12.2 Planned 2022 Outages

The following outages are planned for the upcoming reporting period:

- May 1, 2022 from 00:00 to May 26, 2022 at 24:00; CTG 1, CTG 2, and STG spring outage, including inspections, semi-annual maintenance, and limited overhaul.
- November 6, 2022 from 00:00 to November 12, 2022 at 24:00; CTG 1, CTG 2, and STG fall outage, including inspections and semi-annual maintenance.

Appendix A
MGS CEC – Commission Decision Compliance Matrix

Malburg Generating Station
CEC Conditions of Certification Compliance Matrix
Last Revised: January 28, 2022

Condition #	Technical Area	Subject	Condition Description	Means of Verification	Submittal Timing	Compliance Status	Methods & Comments
COM-1							Condition completely satisfied.
COM-2	Compliance	Access	The project owner shall grant Energy Commission staff and delegate agencies or consultants unrestricted access to the power plant site and records.	None Specified	N/A	Ongoing	The Malburg Generating Station (MGS) site and records are accessible to Energy Commission staff, delegate agencies, and consultants upon request.
COM-3	Compliance	Compliance Record	The project owner shall maintain project files onsite. Energy Commission staff and delegate agencies shall be given unrestricted access to the files upon request.	None Specified	N/A	Ongoing	Project files are maintained onsite and are accessible to Energy Commission staff, delegate agencies, and consultants upon request.
COM-4	Compliance	Compliance Verification Submittals	The project owner is responsible for the delivery and content of all verification submittals to the CPM. Verification submittals shall include a cover letter meeting the requirements listed in COM-4 and sent to the listed address.	None Specified	As Needed	Ongoing	MGS prepares and delivers all verification submittals to the CPM according to the specified requirements. In accordance with an email request received from the CPM on 12/15/2021, all submittals after that date will be delivered electronically via email (no hard copies).
COM-5							Condition completely satisfied.
COM-6	Compliance	Compliance Matrix	The project owner shall submit a compliance matrix (in a spreadsheet format) with each monthly and annual compliance report which includes the technical area, condition number, a brief description of the verification action or submittal required by the condition, the date the submittal is required, the expected or actual submittal date, the date a submittal or action was approved, and the compliance status of each condition. Satisfied conditions do not need to be included in the compliance matrix after they have been identified as satisfied in at least one monthly or annual compliance report.	None Specified	Annually with the Annual Compliance Report (ACR)	Ongoing	This matrix satisfies the requirement and will be submitted with each ACR. Note that COM-7, requiring monthly reports, has been completely satisfied.
COM-7							Condition completely satisfied.
COM-8	Compliance	Annual Compliance Report	After construction ends and throughout the life of the project, the project owner shall submit ACRs which include eleven specific components. The first ACR is due after the air district has issued a Permit to Operate.	None Specified	Annually with the ACR	Ongoing	ACRs are submitted annually, as required, and include the eleven listed components.
COM-9							Condition completely satisfied.
COM-10							Condition completely satisfied.
COM-11							Condition completely satisfied.
COM-12	Compliance	Reporting of Complaints, Notices and Citations	All recorded inquiries shall be responded to within 24 hours. In addition to the annual compliance reporting requirements, the project owner shall report and provide copies of all complaint forms, notices of violation, notices of fines, official warnings, and citations to the CPM within 10 days of receipt. Complaints shall be logged and numbered, and recorded using the provided forms.	None Specified	Respond within 24 hours; Notification to the CPM within 10 days; Summary annually with the ACR	Ongoing	MGS responds to all complaints within 24 hours of notification; reports all notices, complaints, and citations to the CPM within 10 days of receipt; and includes a summary of all notices, complaints, and citations in the ACR.
COM-13	Compliance	Planned Closure	The project owner shall submit a closure plan including the listed components to the CPM at least twelve months prior to commencement of a planned closure.	None Specified	12 months prior to commencement of a planned closure	Not Started	MGS will submit a closure plan as required at least 12 months in advance of planned facility closure. No action required until that time.

Malburg Generating Station
CEC Conditions of Certification Compliance Matrix
Last Revised: January 28, 2022

Condition #	Technical Area	Subject	Condition Description	Means of Verification	Submittal Timing	Compliance Status	Methods & Comments
COM-14	Compliance	Unplanned Temporary Closure / On-Site Contingency Plan	To ensure that public health and safety and the environment are protected in the event of an unplanned temporary closure, the project owner shall submit an on-site contingency plan including the listed components no less than 60 days prior to commencement of commercial operation. The approved plan must be in place prior to commercial operation of the facility and shall be kept at the site at all times. The project owner, in consultation with the CPM, will update the on-site contingency plan as necessary. The CPM may require revisions to the on-site contingency plan over the life of the project. In the ACRs submitted to the Energy Commission, the project owner will review the on-site contingency plan and recommend changes to bring the plan up to date. Any changes to the plan must be approved by the CPM. In addition, the nature and extent of insurance coverage and major equipment warranties must also be included in the on-site contingency plan and the status must be updated in the ACRs. In the event of an unplanned temporary 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 circumstances and expected duration of the closure.	None Specified	Notification within 24 hours of unplanned temporary closure; Plan review annually with the ACR (Update as needed)	Ongoing	MGS will review the on-site contingency plan in conjunction with preparation of the ACRs and recommend changes to bring the plan up to date. MGS will also provide an update on the status of the insurance coverage and major equipment warranties in the ACRs. In the event of an unplanned temporary closure, MGS 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.
COM-15	Compliance	Unplanned Permanent 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. 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. 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.	None Specified	Notification within 24 hours of unplanned permanent closure; Plan review annually with the ACR (Update as needed)	Ongoing	MGS will review the on-site contingency plan in conjunction with preparation of the ACRs and recommend changes to bring the plan up to date per COC COM-14. MGS will also provide an update on the status of the insurance coverage and major equipment warranties in the ACRs per COC COM-14. In the event of an unplanned permanent closure, MGS 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.
COM-16	Compliance	Post Certification Changes to the CEC Decision	The project owner must petition the Energy Commission to delete or change a condition of certification, modify the project design or operational requirements and/or transfer ownership of operational control of the facility. A petition is required for amendments and for insignificant project changes (as defined in COC COM-16). For verification changes (as defined in COC COM-16), a letter from the project owner is sufficient. In all cases, the petition or letter requesting a change should be submitted to the Energy Commission's Docket.	None Specified	As Needed	Ongoing	MGS will petition the Energy Commission if revisions to the Decision to delete or change a condition of certification, modify the project design or operational requirements and/or transfer ownership of operational control of the facility are needed. A cumulative listing of all approved post-certification changes is included in each ACR per COC COM-8.
GEN-1							Condition completely satisfied.
GEN-2							Condition completely satisfied.

Malburg Generating Station
CEC Conditions of Certification Compliance Matrix
Last Revised: January 28, 2022

Condition #	Technical Area	Subject	Condition Description	Means of Verification	Submittal Timing	Compliance Status	Methods & Comments
GEN-3							Condition completely satisfied.
GEN-4							Condition completely satisfied.
GEN-5							Condition completely satisfied.
GEN-6							Condition completely satisfied.
GEN-7							Condition completely satisfied.
GEN-8							Condition completely satisfied.
CIVIL-1							Condition completely satisfied.
CIVIL-2							Condition completely satisfied.
CIVIL-3							Condition completely satisfied.
CIVIL-4							Condition completely satisfied.
STRUC-1							Condition completely satisfied.
STRUC-2							Condition completely satisfied.
STRUC-3							Condition completely satisfied.
STRUC-4							Condition completely satisfied.
MECH-1							Condition completely satisfied.
MECH-2							Condition completely satisfied.
MECH-3							Condition completely satisfied.
ELEC-1							Condition completely satisfied.
TSE-1							Condition completely satisfied.
TSE-2							Condition completely satisfied.
TSE-3							Condition completely satisfied.
TSE-4							Condition completely satisfied.
TSE-5							Condition completely satisfied.
TSE-6							Condition completely satisfied.
TSE-7							Condition completely satisfied.
TSE-8							Condition completely satisfied.
TLSN-1							Condition completely satisfied.
AQ-C1							Condition completely satisfied.
AQ-C2							Condition completely satisfied.
AQ-C3							Condition completely satisfied.
AQ-C4							Condition completely satisfied.
AQ-C5	Air Quality	Cooling Tower Circulating Water Chromium	No chromium containing compounds shall be added to cooling tower circulating water.	The Project Owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA and Energy Commission upon request.	N/A	Ongoing	The site and records remain available for inspection by representatives of the District, ARB, U.S. EPA and Energy Commission upon request.
AQ-C6	Air Quality	Cooling Tower Blowdown Water TDS Level	The Project Owner shall determine the TDS level in the blowdown water by independent laboratory testing prior to initial operation and periodically thereafter.	The Project Owner shall submit for approval to the CPM a protocol for initial and weekly testing and the identification of the independent laboratory to be used 90 days prior to cooling tower operation. The Project Owner shall submit weekly TDS reports for the blowdown water as part of the quarterly emission report to the CPM for approval.	Test weekly; Report 30 days after quarter end	Ongoing	MGS shall submit weekly TDS reports for the blowdown water as part of the quarterly emission report to the CPM for approval.

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AQ-C7	Air Quality	Cooling Tower PM10 Emissions	PM10 emissions from the cooling tower (in total) shall not exceed 6.2 lb/day. Compliance with the PM10 daily emission limit shall be demonstrated using the provided equation.	The Project Owner shall calculate the daily PM10 emissions from the cooling tower and submit all calculations and results on a quarterly basis in the quarterly emission reports to the CPM for approval.	30 days after quarter end	Ongoing	MGS shall calculate the daily PM10 emissions from the cooling tower and submit all calculations and results on a quarterly basis in the quarterly emission reports to the CPM for approval.
AQ-C8	Air Quality	Firewater Pump Testing	The project owner shall refrain from testing the firewater pump during the same hour as either gas fired combustion turbine is in start up or shut down as defined by Condition of Certification AQ-C9.	The Project Owner shall submit to the CPM for approval all testing times and results of the diesel fired emergency firewater pump in the quarterly emissions report.	30 days after quarter end	Ongoing	MGS shall submit to the CPM for approval all testing times and results of the diesel fired emergency firewater pump in the quarterly emissions report.
AQ-C9	Air Quality	Startup/ Shutdown Definitions	The Project Owner shall use the following definitions to determine compliance with startup, shutdown and any related emission or operational limitations. Startup is defined as beginning when fuel is first delivered to the combustors of the combustion turbine and ending when the combustion turbine reaches all NOx and CO emission limits for normal operation. Shutdown is defined as beginning during normal operation with the intent to shutdown and ends with the secession of fuel being delivered to the combustors of the combustion turbine.	See Verification for Condition of Certification **AQ-6**.	30 days after quarter end	Ongoing	MGS shall submit to the CPM for approval, a record of all startups and shutdowns including duration and date of occurrence on a quarterly basis as part of the quarterly emission report.
AQ-C10	Air Quality	DELETED					This condition was removed in June 2019.
AQ-C11	Air Quality	Quarterly Emissions Report	The Project Owner shall submit a quarterly emissions report on a quarterly basis to the CPM for approval. The quarterly emissions report shall generally report all ammonia, NOx, SOx, CO, PM10 and VOC emissions from the Malburg Generation Station as necessary to demonstrate compliance with all emission limits. The fourth quarter emission report shall include an annual summary of all emissions of ammonia, NOx, SOx, CO, PM10 and VOC.	The Project Owner shall submit to the CPM the quarterly emissions report no less than 30 days after the end of each calendar quarter.	30 days after quarter end	Ongoing	MGS shall submit to the CPM the quarterly emissions report no less than 30 days after the end of each calendar quarter.
AQ-C12							Condition completely satisfied.
AQ-C13	Air Quality	Air Permit Modification	The Project Owner shall submit to the CPM for review and approval any modification proposed by either the City or issuing agency to any project air permit.	The Project Owner shall submit any proposed air permit modification to the CPM within five working days of its submittal either by the Project Owner to an agency, or receipt of proposed modifications from an agency. The Project Owner shall submit all modified air permits to the CPM within 15 days of receipt.	Within 5 working days of submittal or receipt for proposed modifications; Within 15 days of receipt for modified permits	Ongoing	MGS shall submit any proposed air permit modification to the CPM within five working days of its submittal either by MGS to an agency, or receipt of proposed modifications from an agency. MGS shall submit all modified air permits to the CPM within 15 days of receipt.
AQ-C14							Condition completely satisfied.

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AQ-1	Air Quality	Emissions Discharge	Except for open abrasive blasting operations, the Project Owner shall not discharge into the atmosphere from any single source of emissions whatsoever any contaminant for a period or periods aggregating more than three minutes in any one hour which is: a) As dark or darker in shade as that designated No. 1 on the Ringlelmann Chart, as published by the United States Bureau of Mines; or b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and Energy Commission upon request.	N/A	Ongoing	The site and records remain available for inspection by representatives of the District, ARB, U.S. EPA and Energy Commission upon request.
AQ-2	Air Quality	Diesel Oil Sulfur Content	The Project Owner shall not use diesel oil containing sulfur compounds in excess of 15 parts per million (ppm) by weight as supplied by the supplier. The operator shall not use diesel fuel containing sulfur compounds in excess of 0.05 percent by weight.	The Project Owner shall submit fuel purchase records for approval to the CPM on a quarterly basis in the quarterly emissions report.	30 days after quarter end	Ongoing	MGS shall submit fuel purchase records for approval to the CPM on a quarterly basis in the quarterly emissions report.
AQ-3	Air Quality	Fuel Purchase Records & Sulfur Content	The Project Owner shall keep records, in a manner approved by the District, for the following parameter(s) or item(s): Purchase records of fuel oil and sulfur content of the fuel.	The Project Owner shall submit fuel purchase records for approval to the CPM on a quarterly basis in the quarterly emissions report.	30 days after quarter end	Ongoing	MGS shall submit fuel purchase records for approval to the CPM on a quarterly basis in the quarterly emissions report.
AQ-4	Air Quality	DELETED					This condition was removed in June 2019.
AQ-5	Air Quality	Steam Generator Emissions	The Project Owner shall limit the emissions from both gas fired combustion turbine-heat recovery steam generator train exhaust stacks as follows: - CO: 7,633 lbs in any one month - PM10: 4,876 lbs in any one month - PM2.5: 4,876 lbs in any one month - VOC: 3,236 lbs in any one month - SOx: 214 227 lbs in any one month. For the purpose of this condition, the limit(s) shall be based on the total combined emissions from equipment D27, D36 (both gas turbines) and D31, D39 (both duct burners). Emission calculations shall be done as specified in COC AQ-5.	The Project Owner shall submit all emission calculations, fuel use, CEM records and a summary demonstrating compliance of all emission limits stated in this Condition for approval to the CPM on a quarterly basis in the quarterly emissions report.	30 days after quarter end	Ongoing	MGS shall submit all emission calculations, fuel use, CEM records and a summary demonstrating compliance of all emission limits stated in this Condition for approval to the CPM on a quarterly basis in the quarterly emissions report.

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AQ-6	Air Quality	Startup/ Shutdown Limits	The 2.0 ppm NOx, CO, and VOC emission limits shall not apply during turbine commissioning, start-ups, and shutdowns. Following commissioning, cold start-ups shall not exceed 120 minutes without a trip, and 150 minutes with a trip. Emissions for a cold start-up with or without a trip shall not exceed the following limits: NOx: 122.8 lbs, CO: 204.8 lbs and VOC: 1.75 lbs. Non-cold start-ups shall not exceed 90 minutes without a trip or 120 minutes with a trip. Emissions for a non-cold start-up with or without a trip shall not exceed the following limits: NOx: 51.3 lbs, CO: 59.9 lbs, and VOC: 1.55 lbs. Shutdowns shall not exceed 30 minutes. Emissions for a shutdown shall not exceed the following limits: NOx: 4.5 lbs, CO: 10.8 lbs, and VOC: 0.71 lbs. Each turbine shall be limited to a maximum of 10 startups per month, which includes no more than 5 cold starts per month, with no more than 2 startups in any day. Each turbine shall be limited to a maximum of 56 startups per year, which includes no more than 30 cold startups per year. Written records of commissioning, start-ups and shutdowns shall be kept and made available to District and submitted to the CPM for approval.	The Project Owner shall submit to the CPM for approval all required records including a record of all startups and shutdowns including duration and date of occurrence on a quarterly basis as part of the quarterly emission report.	30 days after quarter end	Ongoing	MGS shall submit to the CPM for approval, a record of all startups and shutdowns including duration and date of occurrence on a quarterly basis as part of the quarterly emission report.
AQ-7	Air Quality	DELETED					This condition was removed in June 2019.
AQ-8	Air Quality	DELETED					This condition was removed in June 2019.
AQ-9	Air Quality	NOx Emission Limits	The 2.0 ppmv NOx emissions limit(s) are averaged over 1 hour at 15 percent oxygen, dry basis.	The Project Owner shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.	30 days after quarter end	Ongoing	MGS shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.
AQ-10	Air Quality	CO Emission Limits	The 2.0 ppmv CO emission limit(s) are averaged over 1 hour at 15 percent oxygen, dry basis.	The Project Owner shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.	30 days after quarter end	Ongoing	MGS shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.
AQ-11	Air Quality	VOC Emission Limits	The 2.0 ppmv VOC emission limit(s) are averaged over 1 hour at 15 percent oxygen, dry basis.	The Project Owner shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.	30 days after quarter end	Ongoing	MGS shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.

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AQ-12	Air Quality	NH3 Emission Limits	The 5 ppm NH3 emission limit(s) are averaged over 1 hour at 15 percent oxygen, dry basis. The Project Owner shall calculate and continuously record the ammonia slip concentration using the provided formula. The project owner shall install and maintain a NOx analyzer to measure the SCR inlet NOx ppmv accurate to plus or minus 5 percent and calibrated at least once every 12 months. The calculated NH3 value may not be used for compliance determination without corroborative data using an approved reference method for determination of ammonia.	The Project Owner shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.	30 days after quarter end	Ongoing	MGS shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.
AQ-13	Air Quality	Compliance with District Rule 475	For the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both emission limits at the same time.	The Project Owner shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.	30 days after quarter end	Ongoing	MGS shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.
AQ-14	Air Quality	Diesel Fuel Sulfur Content	The Project Owner shall only use diesel fuel containing the following specified compounds: Sulfur less than or equal to 15 ppm by weight.	The Project Owner shall submit fuel purchase records for approval to the CPM on a quarterly basis in the quarterly emissions report.	30 days after quarter end	Ongoing	MGS shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.
AQ-15	Air Quality	Diesel Firewater Pump Operating Time	The Project Owner shall limit the operating time of the diesel fueled firewater pump to no more than 200 hours each in any one year. Operations for maintenance and testing as defined in Rule 1470 shall not exceed 50 hours in any one calendar year. The total annual operating time includes all operations including maintenance and testing.	See Verification for Condition of Certification **AQ-C8**.	30 days after quarter end	Ongoing	MGS shall submit to the CPM for approval all testing times and results of the diesel fired emergency firewater pump in the quarterly emissions report.
AQ-16	Air Quality	Ammonia Tank Pressure Relief Valve	The Project Owner shall install and maintain a pressure relief valve set at 25 psig in the ammonia storage tank.	The Project Owner shall make the ammonia storage tank available for inspection by the District, ARB, U.S. EPA and Energy Commission.	N/A	Ongoing	The ammonia storage tank remains accessible for inspection to the District, ARB, U.S. EPA and Energy Commission.
AQ-17	Air Quality	Diesel Firewater Pump Hour Meter	The Project Owner shall install and maintain a(n) non-resettable elapsed time meter for the firewater pump to accurately indicate the elapsed operating time of the engine.	The Project Owner shall make the firewater pump available for inspection by the District, ARB, U.S. EPA and Energy Commission.	N/A	Ongoing	The firewater pump remains accessible for inspection to the District, ARB, U.S. EPA and Energy Commission.
AQ-18	Air Quality	Gas Turbine Totalizing Fuel Meter	The Project Owner shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the turbines.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and Energy Commission upon request.	N/A	Ongoing	The site and records remain accessible for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.

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AQ-19	Air Quality	Injected Ammonia Meter and Limits	The Project Owner shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia (NH3). The Project Owner shall also install and maintain a device to continuously record the parameter being measured. The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months. The project owner shall maintain the ammonia injection rate between 5 lb/hr and 175 lb/hr.	The Project Owner shall submit to CPM for approval the design drawing that clearly shows the flow meter and recording device for the ammonia injection grid no less than 90 days prior to installation of the ammonia injection grid. The Project Owner shall submit to the CPM for approval the annual calibration report for the flow meter and recording device as part of the ACR.	Annually with the ACR	Ongoing	MGS shall submit to the CPM for approval the annual calibration report for the flow meter and recording device as part of the ACR.
AQ-20	Air Quality	SCR Exhaust Temperature	The Project Owner shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the exhaust at the inlet to the SCR reactor. The Project Owner shall also install and maintain a device to continuously record the parameter being measured. The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months. The exhaust temperature at the inlet of the SCR/CO catalyst shall be maintained between 350 degrees Fahrenheit and 750 degrees Fahrenheit except during startups and shutdowns.	The Project Owner shall submit to CPM for approval the design drawing that clearly shows the temperature gauge and recording device for the inlet to the SCR reactor no less than 90 days prior to installation of the SCR. The Project Owner shall submit to the CPM for approval the annual calibration report for the temperature gauge and recording device as part of the ACR.	Annually with the ACR	Ongoing	MGS shall submit to the CPM for approval the annual calibration report for the temperature gauge and recording device as part of the ACR.
AQ-21	Air Quality	Differential Pressure Across SCR Catalyst Bed	The Project Owner shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches of water column. The Project Owner shall also install and maintain a device to continuously record the parameter being measured. The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months. The pressure drop across the catalyst shall be between 0.15 and 2.0 inches water column.	The Project Owner shall submit to CPM for approval the design drawing that clearly shows the pressure gauge and recording device across the SCR reactor no less than 90 days prior to installation of the SCR. The Project Owner shall submit to the CPM for approval the annual calibration report for the pressure gauge and recording device as part of the ACR.	Annually with the ACR	Ongoing	MGS shall submit to the CPM for approval the annual calibration report for the pressure gauge and recording device as part of the ACR.
AQ-22	Air Quality	DELETED					This condition was removed in June 2019.

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AQ-23	Air Quality	Source Testing	The Project Owner shall conduct source test(s) for the pollutant(s) identified below according to the requirements listed in COC AQ-23: - VOC Emissions - SOX Emissions - PM10 Emissions Source testing shall be conducted within 180 days after initial startup of the Siemens A-Plus Turbine Upgrade project and at least once every three years thereafter. The test shall be conducted and the results submitted to the District and the CPM within 60 days after the test date. The District and the CPM shall be notified of the date and time of the test at least 10 days prior to the test.	The Project Owner shall submit for approval to the District and the CPM the required source testing protocol no less than 45 days prior to the date of the source test. The Project Owner shall notify the District and CPM of the date and time of the source test no less than 10 days prior to the test. The Project Owner shall submit to the District and CPM for approval the results of the source test no later than 60 days following the date of the source test.	Every Three Years; Protocol 45 days prior to source test; Notification 10 days prior to source test; Report 60 days after source test	Ongoing	MGS shall submit for approval to the District and the CPM the required source testing protocol no less than 45 days prior to the date of the source test. MGS shall notify the District and CPM of the date and time of the source test no less than 10 days prior to the test. MGS shall submit to the District and CPM for approval the results of the source test no later than 60 days following the date of the source test.
AQ-24	Air Quality	Source Testing	The Project Owner shall conduct source test(s) for the pollutant(s) identified below according to the requirements listed in COC AQ-24: - NH3 Emissions Source testing shall be conducted within 180 days after initial startup of the Siemens A-Plus Turbine Upgrade project and at least annually thereafter. The test shall be conducted and the results submitted to the District and the CPM within 60 days after the test date. The District and the CPM shall be notified of the date and time of the test at least 10 days prior to the test.	The Project Owner shall submit for approval to the District and the CPM the required source testing protocol no less than 45 days prior to the date of the source test. The Project Owner shall notify the District and CPM of the date and time of the source test no less than 10 days prior to the test. The Project Owner shall submit to the District and CPM for approval the results of the source test no later than 60 days following the date of the source test.	Annually; Protocol 45 days prior to source test; Notification 10 days prior to source test; Report 60 days after source test	Ongoing	MGS shall submit for approval to the District and the CPM the required source testing protocol no less than 45 days prior to the date of the source test. MGS shall notify the District and CPM of the date and time of the source test no less than 10 days prior to the test. MGS shall submit to the District and CPM for approval the results of the source test no later than 60 days following the date of the source test.
AQ-25	Air Quality	CEMS	The Project Owner shall install and maintain a CEMS to measure CO concentration in ppmv. Concentrations shall be corrected to 15 percent oxygen on a dry basis. The CEMS will convert the actual CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis. The CEMS shall be installed and operated to measure CO concentration over a 15 minute averaging time period.	The Project Owner shall make the site and records available for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.	N/A	Ongoing	The site and records remain accessible for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.
AQ-26	Air Quality	CEMS	The Project Owner shall install and maintain a CEMS to measure NOx concentration in ppmv. Concentration shall be corrected to 15 percent oxygen on a dry basis.	The Project Owner shall make the site and records available for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.	N/A	Ongoing	The site and records remain accessible for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.

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AQ-27	Air Quality	Fuel Usage	The Project Owner shall limit the fuel usage of each turbine-duct burner pair to no more than 405 million cubic feet in any one calendar month. For the purpose(s) of this condition, the limit shall be based on the total combined fuel usage for each turbine and associated duct burner. The purpose(s) of this condition is to ensure compliance with the condition AQ-5 monthly emission limits.	The Project Owner shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.	30 days after quarter end	Ongoing	MGS shall submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.
AQ-28	Air Quality	SCR Control System	The Project Owner shall vent combustion turbines and HRSGs to the CO oxidation/SCR control system whenever the turbines are in operation.	The Project Owner shall make the site and records available for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.	N/A	Ongoing	The site and records remain accessible for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.
AQ-29	Air Quality	Ammonia Delivery	The Project Owner shall vent ammonia storage tank, during filling, only to the vessel from which it is being filled.	The Project Owner shall make the site and records available for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.	N/A	Ongoing	The site and records remain accessible for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.
AQ-30	Air Quality	Definition of Continuously Record	For the purpose of the following condition number(s), "continuously record" shall be defined as recording at least once every hour and shall be calculated upon the average of the continuous monitoring for that hour. Condition of Certification **AQ-18** Condition of Certification **AQ-19**	The Project Owner shall make the site and records available for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.	N/A	Ongoing	The site and records remain accessible for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.
AQ-31	Air Quality	Definition of Continuously Record	For the purpose of the following condition number(s), "continuously record" shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that month. Condition of Certification **AQ-20**	The Project Owner shall make the site and records available for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.	N/A	Ongoing	The site and records remain accessible for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.

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AQ-32	Air Quality	NOx RTCs	This equipment shall not be operated unless the facility holds the listed amounts of NOx RECLAIM Trade Credits (RTCs) in its allocation account to offset the annual emissions increase for the first year of operation. The RTCs held to satisfy the first year of operation portion of this condition may be transferred only after one year from the initial start of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds the listed amounts of NOx RTCs valid during that compliance year. RTCs held to satisfy the compliance year portion of this condition may be transferred only after the compliance year for which the RTCs are held. If the initial or annual hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit. Listed amounts: 34,349 lbs for D27 and D36; 6,143 pounds for D31 and D39; 689 lbs for D48.	The project owner shall retain records at the project site and make available for review upon request. The project owner shall submit to the CPM records of all RTCs held for the facility annually in the fourth Quarterly Operation Report.	Annually (30 days after 4th quarter end)	Ongoing	MGS shall maintain records at the site and make available for review upon request. MGS will submit records of all RTCs held for the facility annually in the fourth Quarterly Operation Report.
AQ-33	Air Quality	Source Testing	The Project Owner shall provide to the District a source test report in accordance with listed specifications: Source test results shall be submitted to the District no later than 60 days after the source test was conducted. Emissions data shall be expressed in terms of concentration (ppmv), corrected to 15 percent oxygen (dry basis), mass rate (lbs/hr), and lbs/mm cubic feet. In addition, solid PM emission, if required to be tested, shall also be reported in terms of grains per DSCF. All exhaust flow rates shall be expressed in terms of dry standard cubic feet per minute (DCFM) and dry actual cubic feet per minute (DACFM). All moisture concentration shall be expressed in terms of % corrected to 15% oxygen. Source test results shall also include turbine fuel flow rate under which the test was conducted. Source test report shall also include the oxygen level in the exhaust, fuel flow rate (CFH), the flue gas temperature, and the turbine and generator output (MW) under which the test was conducted.	The Project Owner shall submit to the CPM the required source test of Conditions of Certification **AQ-21**, **AQ-22 and AQ-23** in compliance with this condition.	Within 60 days of source test completion	Ongoing	MGS shall submit for approval to the District and the CPM the required source test report no later than 60 days after the source test was completed.

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AQ-34	Air Quality	Recordkeeping	The Project Owner shall keep records, in a manner approved by the District, for the following parameters or items: For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coatings consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings. For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.	The Project Owner shall make the site and records available for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.	N/A	Ongoing	The site and records remain accessible for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.
AQ-35	Air Quality	Recordkeeping	The Project Owner shall keep records, in a manner approved by the District, to demonstrate compliance with the following condition number(s): Condition of Certification **AQ-15** Condition of Certification **AQ-17** The project owner shall keep records, in a manner approved by the District, for the following parameter(s) or item(s): Date of operation, the elapsed time, in hours, and the reason for operation of the diesel firewater pump Maintenance and testing hours of operation Hours of operation for emission testing to show rule compliance Other operating hours	The Project Owner shall submit these records to the CPM on an annual basis in the ACR. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and Energy Commission upon request.	Annually with the ACR	Ongoing	MGS shall keep records of dates of operation, the elapsed time, in hours, and the reason for operation of the diesel firewater pump, maintenance and testing hours of operation, hours of operation for emission testing to show rule compliance, and other operating hours. MGS shall submit these records to the CPM on an annual basis in the ACR. The site and records remain accessible for inspection by the District, ARB, U.S. EPA and Energy Commission upon request.
AQ-36	Air Quality	Recordkeeping	The project owner shall keep records, in a manner approved by the District, for the following parameters or items: Operational status of the duct burner and its fuel usage.	See verification of Condition of Certification **AQ-6**.	30 days after quarter end	Ongoing	Records are available upon request and provided quarterly as part of the response to COC AQ-5 and AQ-6.

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AQ-37	Air Quality	Recordkeeping	The project owner shall operate and maintain the diesel firewater pump according to the following requirements: The project owner shall change oil and filter every 500 hours of operation or annually, whichever comes first, per Sect. 63.6603(a). The operator has the option of utilizing an oil analysis as described in Sect. 63.6625(i) in order to extend the specified oil change requirement. The project owner shall inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary, per Sect. 63.6603(a). The project owner shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, per Sect. 63.6603(a). The project owner shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, per Sect. 63.66259e)(3) and Sect. 63.6640(a). The project owner shall maintain records required by Sect. 63.6655(a), Sect. 63.6655(e), and Sect. 63.6660, as applicable, for five years. The records shall be made available to District personnel upon request.	The project owner shall make these records available to the CPM upon request.	N/A	Ongoing	MGS operates and maintains the diesel firewater pump according to the requirements and records are available upon on request.

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Condition #	Technical Area	Subject	Condition Description	Means of Verification	Submittal Timing	Compliance Status	Methods & Comments
AQ-38	Air Quality	Recordkeeping	The operator shall operate and maintain the gas turbines and duct burners according to the following requirements: For the Siemens A-Plus Upgrade Project, total commissioning hours shall not exceed 56.25 hours of fired operation for each turbine from the date of initial turbine upgrade start-up. Of the 56.25 hours, commissioning hours without control shall not exceed 32.5 hours. One turbine may be commissioned at a time. The commissioning for both turbines shall be completed before normal operation for either turbine may commence. The emergency internal combustion engine for fire pump shall not be tested during the commissioning of a turbine. The certified NOx and CO CEMS shall be fully calibrated and operational. The operator shall vent this equipment to the CO oxidation catalyst and SCR control system whenever the turbine is in operation after commissioning is completed. The operator shall maintain records to demonstrate compliance with this condition and shall make such records available to the Executive Officer upon request. The records shall be maintained for a minimum of 5 years in a manner approved by SCAQMD. The records shall include, but not be limited to, the total number of commissioning hours, number of commissioning hours without control, and natural gas fuel usage.	The project owner shall make these records available to the CPM upon request.	N/A	Ongoing (Until 5 Year Record Retention Period Complete)	MGS operated and maintained the gas turbines and duct burners according to the requirements during commissioning and records are available upon on request.
AQ-39	Air Quality	Recordkeeping	This equipment is subject to the applicable requirements of the following Rules or Regulations: NOX Subpart KKKK, SO2 Subpart KKKK	The project owner shall make these records available to the CPM upon request.	N/A	Ongoing	Records are available upon request.
AQ-40	Air Quality	Recordkeeping	This equipment is subject to the applicable requirements of the following Rules or Regulations: NOX 40 CFR 75, SO2 40 CFR 75	The project owner shall make these records available to the CPM upon request.	N/A	Ongoing	Records are available upon request.
Public Health-1							Condition completely satisfied.
Worker Safety-1							Condition completely satisfied.
Worker Safety-2							Condition completely satisfied.
HAZ-1	Hazardous Materials Management	Use of Hazardous Materials	The project owner shall not use any hazardous materials not listed in Appendix C, or in greater quantities than those identified by chemical name in Appendix C, unless approved in advance by City of Vernon and the CPM.	The project owner shall provide to the CPM, in the ACR, a list of hazardous materials contained at the facility in reportable quantities.	Annually with the ACR	Ongoing	MGS shall provide to the CPM, in the ACR, a list of hazardous materials contained at the facility in reportable quantities. This list shall be provided as a copy of the most recent Hazardous Materials Inventory submitted to the CUPA.
HAZ-2							Condition completely satisfied.
HAZ-3							Condition completely satisfied.
HAZ-4							Condition completely satisfied.
HAZ-5							Condition completely satisfied.

Malburg Generating Station
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Condition #	Technical Area	Subject	Condition Description	Means of Verification	Submittal Timing	Compliance Status	Methods & Comments
HAZ-6	Hazardous Materials Management	Gas Pipeline Design Review	The project owner shall require that the gas pipeline undergo a complete design review and detailed inspection 30 days after initial startup and every 5 years thereafter.	At least 30 days prior to the initial flow of gas in the pipeline, the project owner shall provide an outline of the plan to accomplish a full and comprehensive pipeline design review to the CPM for review and approval. The full and complete plan shall be amended, as appropriate, and submitted to the CPM for review and approval, not later than one year before the plan is implemented by the project owner.	Every five years (Update as needed)	Ongoing	The initial requirement of the Condition was completed during construction. Design reviews and pipeline inspections are completed every 5 years. An outline of the plan to accomplish a full and comprehensive pipeline design review and confirmation of completion of each review and inspection are submitted to the CPM every five years.
HAZ-7	Hazardous Materials Management	Gas Pipeline Seismic Event Inspections	After any significant seismic event in the area where surface rupture occurs within one mile of the pipeline, the gas pipeline shall be inspected by the project owner.	At least 30 days prior to the initial flow of gas in the pipeline, the project owner shall provide a detailed plan to accomplish a full and comprehensive pipeline inspection in the event of an earthquake to the CPM for review and approval. This plan shall be reviewed and amended, as appropriate, and submitted to the CPM for review and approval, at least every five years.	Every five years (Update as needed)	Ongoing	The initial requirement of the Condition was completed during construction. The gas pipeline is inspected after any significant seismic event in the area where surface rupture occurs within one mile of the pipeline. The plan to accomplish a full and comprehensive pipeline inspection in the event of an earthquake is reviewed, amended as appropriate, and submitted to the CPM at least every five years.
HAZ-8							Condition completely satisfied.
WASTE-1							Condition completely satisfied.
WASTE-2							Condition completely satisfied.
WASTE-3	Waste Management	Impending Waste Management Related Enforcement Action	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.	Within 10 days of becoming aware of impending enforcement action	Ongoing	MGS shall notify the CPM in writing within 10 days of becoming aware of an impending enforcement action.
WASTE-4	Waste Management	Construction & Operation Waste Management Plans	The project owner shall prepare a Construction Waste Management Plan and an Operation Waste Management Plan for all wastes generated during construction and operation of the facility, respectively, and shall submit both plans to the City of Vernon Environmental Health Department and the City of Vernon Fire Department for comment and to the CPM for review and approval. The plans shall contain, at a minimum, a description of all waste streams (projections of frequency, amounts generated and hazard classifications) and methods of managing each waste (treatment methods, companies contracted with for treatment services, waste testing methods to assure correct classification, methods of transportation, disposal requirements and sites, and recycling and waste minimization/reduction plans).	In the Annual Compliance Reports, the project owner shall document the actual waste management methods used during the year compared to the planned management methods.	Annually with the ACR	Ongoing	In the ACRs, MGS shall document the actual waste management methods used during the year compared to the planned management methods.
SOIL & WATER-1							Condition completely satisfied.
SOIL & WATER-2							Condition completely satisfied.
SOIL & WATER-3							Condition completely satisfied.

Malburg Generating Station
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Condition #	Technical Area	Subject	Condition Description	Means of Verification	Submittal Timing	Compliance Status	Methods & Comments
SOIL & WATER-4	Soil & Water	Water Usage Metering & Records	The project owner shall install metering devices and record on a monthly basis the amount of water, listed by source (potable and reclaimed) used by the project. The annual summary shall include the monthly range and monthly average of daily usage in gallons per day, and total water used by the project on a monthly and annual basis in acre-feet. The annual summary shall also include the yearly range and yearly average water use by the project. This information shall be supplied to the CPM.	The project owner shall submit an annual water use summary to the CPM as part of its annual compliance report for the life of the project.	Annually with the ACR	Ongoing	MGS shall submit an annual water use summary containing the required components as part of the ACR.
SOIL & WATER-5	Soil & Water	Potable Water Usage	The project owner shall not use potable water for process cooling water for more than 9 days (216 hours) per calendar year.	The project owner shall include a detailed summary of all potable water and reclaimed water used for process water in the ACR. If use of potable water exceeds 9 days per year, the project owner shall be subject to noncompliance procedures and enforcement action described in the General Compliance Conditions.	Annually with the ACR	Ongoing	MGS shall include a detailed summary of all potable water and reclaimed water used for process water in the ACR.
SOIL/ WATER-6							Condition completely satisfied.
SOIL/ WATER-7							Condition completely satisfied.
CUL-1							Condition completely satisfied.
CUL-2							Condition completely satisfied.
CUL-3							Condition completely satisfied.
CUL-4							Condition completely satisfied.
CUL-5							Condition completely satisfied.
CUL-6							Condition completely satisfied.
CUL-7							Condition completely satisfied.
CUL-8	Cultural Resources	Station A Maintenance	The project owner shall ensure that Station A is maintained in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties (1995) (36 CFR Part 68). The project owner shall provide a summary of maintenance activities completed within each calendar year.	In each ACR, the project owner shall include the summary of Station A maintenance activities completed within the last calendar year.	Annually with the ACR	Ongoing	MGS shall submit a summary of observed Station A maintenance activities completed within the last calendar year in the ACR.
PAL-1							Condition completely satisfied.
PAL-2							Condition completely satisfied.
PAL-3							Condition completely satisfied.
PAL-4							Condition completely satisfied.
PAL-5							Condition completely satisfied.
PAL-6							Condition completely satisfied.
PAL-7							Condition completely satisfied.
LAND-1							Condition completely satisfied.
LAND-2							Condition completely satisfied.
TRANS-1							Condition completely satisfied.
TRANS-2							Condition completely satisfied.
TRANS-3							Condition completely satisfied.
TRANS-4							Condition completely satisfied.
TRANS-5							Condition completely satisfied.
TRANS-6							Condition completely satisfied.
TRANS-7							Condition completely satisfied.

Malburg Generating Station
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Condition #	Technical Area	Subject	Condition Description	Means of Verification	Submittal Timing	Compliance Status	Methods & Comments
TRANS-8	Traffic & Transportation	Truck Travel Routes for Aqueous Ammonia	The Project Owner shall only use the preferred and alternate truck travel routes for deliveries of aqueous ammonia to the MGS site. The preferred route shall be from Interstate 710, exiting at the Bandini Boulevard. Trucks will then travel west along Bandini Boulevard, south on Soto Avenue, and finally west on 50th Street to the MGS. The City shall use this route unless it notifies the CPM otherwise and the CPM approves.	The final preferred and alternative truck travel routes for aqueous ammonia delivery will be submitted to the CPM for approval 30 days prior to the first delivery of aqueous ammonia to the MGS. During operations, the project owner may alter the final truck travel route only upon prior approval of the CPM.	As Needed	Ongoing	The originally mandated route and alternate route have been communicated to the aqueous ammonia supplier and use of these routes is mandated by MGS. MGS may alter the final truck travel route only upon prior approval of the CPM.
TRANS-9							Condition completely satisfied.
VIS-1	Visual Resources	Lighting Installation	The project owner shall design and install all permanent lighting such that light bulbs and reflectors are not visible from public viewing areas; lighting does not cause reflected glare; and illumination of the project, the vicinity, and the nighttime sky is minimized. To meet these requirements, the project owner shall ensure that: a) Lighting shall be designed so exterior light fixtures are hooded, with lights directed downward or toward the area to be illuminated and so that backscatter to the nighttime sky is minimized. The design of the lighting shall be such that the luminescence or light source is shielded to prevent light trespass outside the project boundary; b) All lighting shall be of minimum necessary brightness consistent with worker safety; c) High illumination areas not occupied on a continuous basis (such as maintenance platforms) shall have switches or motion detectors to light the area only when occupied; d) A lighting complaint resolution form (following the general format of that in Appendix VR-1 attached hereto) shall be used by plant operations to record all lighting complaints received and document the resolution of those complaints. All records of lighting complaints shall be kept in the onsite compliance file.	The project owner shall report any complaints about permanent lighting and provide documentation of resolution in the ACR, accompanied by any lighting complaint resolution forms for that year.	Annually with the ACR	Ongoing	MGS shall report any complaints about permanent lighting and provide documentation of resolution in the ACR, accompanied by any lighting complaint resolution forms for that year.
VIS-2	Visual Resources	Structure Painting	The project owner shall paint or treat the surfaces of all project structures and buildings visible to the public in a gray color to blend with the existing Station A building. Surfaces shall be treated with finishes that minimize glare. The project owner shall ensure proper treatment maintenance for the life of the project.	At least 30 days prior to the start of commercial operation, the project owner shall notify the CPM that all buildings and structures are ready for inspection. The project owner shall provide a status report regarding treatment maintenance in the ACR.	Annually with the ACR	Ongoing	MGS shall provide a status report regarding treatment maintenance in the ACR.
VIS-3	Visual Resources	Tree Planting	The project owner shall plant trees along the east side of the MGS site to enhance views of the new power plant from Soto Street, consistent with The Project Owner General Plan policy 1.3. The project owner shall ensure proper maintenance of the trees for the life of the project.	At least 30 days prior to the start of commercial operation, the project owner shall notify the CPM that the trees are ready for inspection. The project owner shall provide a status report regarding tree maintenance in the ACR.	Annually with the ACR	Ongoing	MGS shall provide a status report regarding tree maintenance in the ACR.
VIS-4							Condition completely satisfied.
NOISE-1							Condition completely satisfied.

Malburg Generating Station
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Last Revised: January 28, 2022

Condition #	Technical Area	Subject	Condition Description	Means of Verification	Submittal Timing	Compliance Status	Methods & Comments
NOISE-2	Noise & Vibration	Noise Complaints	Throughout the construction and operation of the project, the project owner shall document, investigate, evaluate, and attempt to resolve all project related noise complaints. The project owner or authorized agent shall: - Use the Noise Complaint Resolution Form (see Exhibit 1), or functionally equivalent procedure acceptable to the CPM, to document and respond to each noise complaint; - Attempt to contact the person(s) making the noise complaint within 24 hours; - Conduct an investigation to determine the source of noise related to the complaint; - If the noise is project related, take all feasible measures to reduce the noise at its source; and - Submit a report documenting the complaint and the actions taken. The report shall include a complaint summary, including final results of noise reduction efforts; and, if obtainable, a signed statement by the complainant stating that the noise problem is resolved to the complainant's satisfaction.	Within 30 days of receiving a noise complaint, the project owner shall file a copy of the Noise Complaint Resolution Form, or similar instrument approved by the CPM, with the City of Vernon Director of Community Services & Water and the City of Huntington Park Senior Planner and with the CPM, documenting the resolution of the complaint. If mitigation is required to resolve a complaint, and the complaint is not resolved within a 30- day period, the project owner shall submit an updated Noise Complaint Resolution Form when the mitigation is finally implemented.	Within 30 days of receipt of complaint	Ongoing	Within 30 days of receiving a noise complaint, MGS shall file a copy of the Noise Complaint Resolution Form, or similar instrument approved by the CPM, with the City of Vernon Director of Community Services & Water and the City of Huntington Park Senior Planner and with the CPM, documenting the resolution of the complaint.
NOISE-3							Condition completely satisfied.
NOISE-4							Condition completely satisfied.
NOISE-5							Condition completely satisfied.
NOISE-6							Condition completely satisfied.
NOISE-7							Condition completely satisfied.
NOISE-8							Condition completely satisfied.

Appendix B
Ammonia Flow Meter Calibration Report

Rosemount Service
8200 Market Blvd.
Chanhassen, MN 55317
T: 800-654-7768
F: 952-906-8844

EMERSON.
Process Management

March 29, 2021

CALIBRATION DATA SHEET

Consistent with ISO 10474 2.1 or EN 10204 2.1

Contact Information

Purchase Order:	MGS21618	**Service Request:**	1957722
Customer Name:	HEOROT POWER LLC	**Quote#:**	7337675-IVS
Location/Project:	VERNON	**Sales Representative:**	Richard Tse
Address 1:	4963 S SOTO ST	**Phone:**	661-345-3675
Address 2:	VERNON, CA, 90058	**Email:**	Richard.Tse@emerson.com
Customer Contact:	Ian Everts	**Service Representative:**	ROBERT LOERA
Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type: Pressure Transmitter		**Serial Number:**	**1287778**
Device Tag: FIT-18		**Range:**	**0 To 10 IN H2O**
Model: EJA110A			

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021
PS-01407	750P01 / +/- 10 In H20	1/09/2022

As Found Calibration Data

Specified Range IN H2O	Applied % Of Span	Applied IN H2O	Specified Analog Output In mA	Output Tolerance +/-	Indicated Digital Output In IN H2O	Measured Analog Output In mA	Pass/Fail
0.000	0.00	0.000	4.0000	0.016	0.210	3.9500	Fail
2.500	25.00	2.500	12.0000	0.016	2.650	11.9780	Fail
5.000	50.00	5.000	15.3137	0.016	5.260	15.3100	Fail
7.500	75.00	7.500	17.8564	0.016	7.700	17.8500	Fail
10.000	100.00	10.000	20.0000	0.016	10.350	19.9800	Fail

As Left Calibration Data

0.000	0.00	0.000	4.0000	0.016	0.000	4.0020	Pass
2.500	25.00	2.500	12.0000	0.016	2.510	12.0010	Pass
5.000	50.00	5.000	15.3137	0.016	5.000	15.3150	Pass
7.500	75.00	7.500	17.8564	0.016	7.490	17.8670	Pass
10.000	100.00	10.000	20.0000	0.016	9.990	20.0090	Pass

Certification

This is to validate that the listed product performs within the acceptable performance variation of the test equipment. Measuring and test equipment used in the inspection and validation of the listed product are traceable to the National Institute of Standards and Technology.

ROBERT LOERA

ROBERT LOERA
Rosemount Service Representative
PH: 909-275-5581

March 29, 2021
Date

Rosemount Service
8200 Market Blvd.
Chanhassen, MN 55317
T: 800-654-7768
F: 952-906-8844

EMERSON.
Process Management

March 29, 2021

CALIBRATION DATA SHEET

Consistent with ISO 10474 2.1 or EN 10204 2.1

Contact Information

Purchase Order:	MGS21618	**Service Request:**	1957722
Customer Name:	HEOROT POWER LLC	**Quote#:**	7337675-IVS
Location/Project:	VERNON	**Sales Representative:**	Richard Tse
Address 1:	4963 S SOTO ST	**Phone:**	661-345-3675
Address 2:	VERNON, CA, 90058	**Email:**	Richard.Tse@emerson.com
Customer Contact:	Ian Everts	**Service Representative:**	ROBERT LOERA
Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type: Pressure Transmitter		**Serial Number:**	**1292706**
Device Tag:		**Range:**	**0 To 10 IN H2O**
Model: EJA110A			

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021
PS-01407	750P01 / +/- 10 In H20	1/09/2022

As Found Calibration Data

Specified Range IN H2O	Applied % Of Span	Applied IN H2O	Specified Analog Output In mA	Output Tolerance +/-	Indicated Digital Output In IN H2O	Measured Analog Output In mA	Pass/Fail
0.000	0.00	0.000	4.0000	0.016	0.000	4.0000	Pass
2.500	25.00	2.500	12.0000	0.016	2.490	11.9800	Fail
5.000	50.00	5.000	15.3137	0.016	4.980	15.3100	Fail
7.500	75.00	7.500	17.8564	0.016	7.480	17.8500	Fail
10.000	100.00	10.000	20.0000	0.016	9.980	19.9950	Fail

As Left Calibration Data

0.000	0.00	0.000	4.0000	0.016	0.000	4.0000	Pass
2.500	25.00	2.500	12.0000	0.016	2.500	12.0020	Pass
5.000	50.00	5.000	15.3137	0.016	5.010	15.3140	Pass
7.500	75.00	7.500	17.8564	0.016	7.490	17.8600	Pass
10.000	100.00	10.000	20.0000	0.016	10.010	20.0050	Pass

Certification

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ROBERT LOERA

ROBERT LOERA
Rosemount Service Representative
PH: 909-275-5581

March 29, 2021
Date

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March 29, 2021

CALIBRATION DATA SHEET

Consistent with ISO 10474 2.1 or EN 10204 2.1

Contact Information

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Customer Name:	HEOROT POWER LLC	**Quote#:**	7337675-IVS
Location/Project:	VERNON	**Sales Representative:**	Richard Tse
Address 1:	4963 S SOTO ST	**Phone:**	661-345-3675
Address 2:	VERNON, CA, 90058	**Email:**	Richard.Tse@emerson.com
Customer Contact:	Ian Everts	**Service Representative:**	ROBERT LOERA
Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type:	Multivariable
Device Tag:	21HHA10C
Model:	3095MA3CA0016AA00N0BS5
Serial #:	336125

Calibration Range Data

Static Pressure Range:	0	To	800	PSI
Differential Pressure Range:	0	To	1000	InH2O
Temperature Range:	0	To	1000	F
Analog Output Range:	4	To	20	mA

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021
PS-00900	700P09 / 0 to 1500 PSIG	1/09/2022
PS-01360	700PD5 / -15 to 30 PSIG (831.9 In H20)	1/09/2022

As Found Calibration Data

	Static Pressure				Differential Pressure			
Target % Of Span	Specified Range in PSI	Applied PSI	Indicated Static Pressure in PSI	Pass Fail +/- 0.6 PSI	Specified Range InH2O	Applied InH2O	Indicated Differential Pressure InH2O	Pass Fail +/- 0.75 InH2O
0.00	0.00	0.000	0.080	Pass	0.00	0.000	-0.400	Pass
25.00	200.00	200.000	200.200	Pass	250.00	250.000	249.950	Pass
50.00	400.00	400.000	400.300	Pass	500.00	500.000	500.020	Pass
75.00	600.00	600.000	600.100	Pass	750.00	750.000	750.250	Pass
100.00	800.00	800.000	800.490	Pass	1000.00	1000.000	1000.500	Pass
	Temperature				**Analog Out**			
Target % Of Span	Specified Range Deg F	Applied Deg F	Indicated Digital Temp Deg F	Pass Fail +/- 1.01 Deg F	Specified Range mA	Simulated mA	Indicated Output mA	Pass Fail +/- 0.0120 mA
0.00	0.00	0.00	0.050	Pass	4.0000	4.0000	4.0080	Pass
25.00	250.00	250.00	249.970	Pass	8.0000	8.0000	8.0100	Pass
50.00	500.00	500.00	500.280	Pass	12.0000	12.0000	12.0130	Fail
75.00	750.00	750.00	750.430	Pass	16.0000	16.0000	16.0170	Fail
100.00	1000.00	1000.00	1000.610	Pass	20.0000	20.0000	20.0200	Fail

As Left Calibration Data

	Static Pressure				Differential Pressure			
Target % Of Span	Specified Range in PSI	Applied PSI	Indicated Static Pressure in PSI	Pass Fail +/- 0.6 PSI	Specified Range InH2O	Applied InH2O	Indicated Differential Pressure InH2O	Pass Fail +/- 0.75 InH2O
0.00	0.00	0.000	0.080	Pass	0.00	0.000	-0.400	Pass
25.00	200.00	200.000	200.200	Pass	250.00	250.000	249.950	Pass
50.00	400.00	400.000	400.300	Pass	500.00	500.000	500.020	Pass
75.00	600.00	600.000	600.100	Pass	750.00	750.000	750.250	Pass
100.00	800.00	800.000	800.490	Pass	1000.00	1000.000	1000.500	Pass
	Temperature				**Analog Out**			
Target % Of Span	Specified Range Deg F	Applied Deg F	Indicated Digital Temp Deg F	Pass Fail +/- 1.01 Deg F	Specified Range mA	Simulated mA	Indicated Output mA	Pass Fail +/- 0.0120 mA
0.00	0.00	0.00	0.050	Pass	4.0000	4.0000	4.0000	Pass
25.00	250.00	250.00	249.970	Pass	8.0000	8.0000	8.0000	Pass
50.00	500.00	500.00	500.280	Pass	12.0000	12.0000	12.0010	Pass
75.00	750.00	750.00	750.430	Pass	16.0000	16.0000	16.0010	Pass
100.00	1000.00	1000.00	1000.610	Pass	20.0000	20.0000	20.0020	Pass

Certification

This is to validate that the listed product performs within the acceptable performance variation of the test equipment. Measuring and test equipment used in the inspection and validation of the listed product are traceable to the National Institute of Standards and Technology.

ROBERT LOERA

ROBERT LOERA
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March 29, 2021
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March 29, 2021

CALIBRATION DATA SHEET

Consistent with ISO 10474 2.1 or EN 10204 2.1

Contact Information

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Address 1:	4963 S SOTO ST	**Phone:**	661-345-3675
Address 2:	VERNON, CA, 90058	**Email:**	Richard.Tse@emerson.com
Customer Contact:	Ian Everts	**Service Representative:**	ROBERT LOERA
Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type:	Multivariable
Device Tag:	11HHA10C
Model:	3095MA3CA0016AA00N0BS5
Serial #:	336124

Calibration Range Data

Static Pressure Range:	0	To	800	PSI
Differential Pressure Range:	0	To	1000	InH2O
Temperature Range:	0	To	1000	F
Analog Output Range:	4	To	20	mA

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021
PS-00900	700P09 / 0 to 1500 PSIG	1/09/2022
PS-01360	700PD5 / -15 to 30 PSIG (831.9 In H20)	1/09/2022

As Found Calibration Data

	Static Pressure				Differential Pressure			
Target % Of Span	Specified Range in PSI	Applied PSI	Indicated Static Pressure in PSI	Pass Fail +/- 0.6 PSI	Specified Range InH2O	Applied InH2O	Indicated Differential Pressure InH2O	Pass Fail +/- 0.75 InH2O
0.00	0.00	0.000	-0.070	Pass	0.00	0.000	-0.040	Pass
25.00	200.00	200.000	200.100	Pass	250.00	250.000	250.300	Pass
50.00	400.00	400.000	400.250	Pass	500.00	500.000	500.030	Pass
75.00	600.00	600.000	600.300	Pass	750.00	750.000	750.400	Pass
100.00	800.00	800.000	800.420	Pass	1000.00	1000.000	1000.500	Pass
	Temperature				**Analog Out**			
Target % Of Span	Specified Range Deg F	Applied Deg F	Indicated Digital Temp Deg F	Pass Fail +/- 1.01 Deg F	Specified Range mA	Simulated mA	Indicated Output mA	Pass Fail +/- 0.0120 mA
0.00	0.00	0.00	0.200	Pass	4.0000	4.0000	4.0150	Fail
25.00	250.00	250.00	250.270	Pass	8.0000	8.0000	8.0140	Fail
50.00	500.00	500.00	500.630	Pass	12.0000	12.0000	12.0130	Fail
75.00	750.00	750.00	750.860	Pass	16.0000	16.0000	16.0170	Fail
100.00	1000.00	1000.00	1000.180	Pass	20.0000	20.0000	20.0180	Fail

As Left Calibration Data

	Static Pressure				Differential Pressure			
Target % Of Span	Specified Range in PSI	Applied PSI	Indicated Static Pressure in PSI	Pass Fail +/- 0.6 PSI	Specified Range InH2O	Applied InH2O	Indicated Differential Pressure InH2O	Pass Fail +/- 0.75 InH2O
0.00	0.00	0.000	-0.070	Pass	0.00	0.000	-0.040	Pass
25.00	200.00	200.000	200.100	Pass	250.00	250.000	250.300	Pass
50.00	400.00	400.000	400.250	Pass	500.00	500.000	500.030	Pass
75.00	600.00	600.000	600.300	Pass	750.00	750.000	750.400	Pass
100.00	800.00	800.000	800.420	Pass	1000.00	1000.000	1000.500	Pass
	Temperature				**Analog Out**			
Target % Of Span	Specified Range Deg F	Applied Deg F	Indicated Digital Temp Deg F	Pass Fail +/- 1.01 Deg F	Specified Range mA	Simulated mA	Indicated Output mA	Pass Fail +/- 0.0120 mA
0.00	0.00	0.00	0.020	Pass	4.0000	4.0000	4.0000	Pass
25.00	250.00	250.00	250.050	Pass	8.0000	8.0000	8.0000	Pass
50.00	500.00	500.00	500.030	Pass	12.0000	12.0000	12.0010	Pass
75.00	750.00	750.00	750.090	Pass	16.0000	16.0000	16.0000	Pass
100.00	1000.00	1000.00	1000.180	Pass	20.0000	20.0000	19.9990	Pass

Certification

This is to validate that the listed product performs within the acceptable performance variation of the test equipment. Measuring and test equipment used in the inspection and validation of the listed product are traceable to the National Institute of Standards and Technology.

ROBERT LOERA

ROBERT LOERA
Rosemount Service Representative
PH: 909-275-5581

March 29, 2021
Date

Appendix C
SCR Temperature Gauge Calibration Report

Rosemount Service
8200 Market Blvd.
Chanhassen, MN 55317
T: 800-654-7768
F: 952-906-8844

March 30, 2021

CALIBRATION DATA SHEET

Consistent with ISO 10474 2.1 or EN 10204 2.1

Contact Information

Purchase Order:	MGS21618	**Service Request:**	1957722
Customer Name:	HEOROT POWER LLC	**Quote#:**	7337675-IVS
Location/Project:	VERNON	**Sales Representative:**	Richard Tse
Address 1:	4963 S SOTO ST	**Phone:**	661-345-3675
Address 2:	VERNON, CA, 90058	**Email:**	Richard.Tse@emerson.com
Customer Contact:	Ian Everts	**Service Representative:**	ROBERT LOERA
Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type: Temperature Transmitter	**Serial #: 0**	**Range: 0 to 800 Deg. F**
Device Tag: 11HBK70CT030	**Sensor Type: Type K**	
Model: YTA110A		

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021

As Found Calibration Data

Specified Range Deg F	Applied % Of Span	Applied Deg F	Specified Analog Output In mA	Output Tolerance +/-	Indicated Digital Output In F	Measured Analog Output In mA	Pass/Fail
0.00	0.00	0.00	4.0000	0.012	-0.36	3.9940	Pass
200.00	25.00	200.00	8.0000	0.012	199.61	7.9910	Pass
400.00	50.00	400.00	12.0000	0.012	399.77	11.9950	Pass
600.00	75.00	600.00	16.0000	0.012	599.70	15.9950	Pass
800.00	100.00	800.00	20.0000	0.012	799.70	19.9950	Pass

As Left Calibration Data

0.00	0.00	0.00	4.0000	0.012	-0.36	3.9940	Pass
200.00	25.00	200.00	8.0000	0.012	199.61	7.9910	Pass
400.00	50.00	400.00	12.0000	0.012	399.77	11.9950	Pass
600.00	75.00	600.00	16.0000	0.012	599.70	15.9950	Pass
800.00	100.00	800.00	20.0000	0.012	799.70	19.9950	Pass

Certification

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March 30, 2021

CALIBRATION DATA SHEET

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Contact Information

Purchase Order:	MGS21618	**Service Request:**	1957722
Customer Name:	HEOROT POWER LLC	**Quote#:**	7337675-IVS
Location/Project:	VERNON	**Sales Representative:**	Richard Tse
Address 1:	4963 S SOTO ST	**Phone:**	661-345-3675
Address 2:	VERNON, CA, 90058	**Email:**	Richard.Tse@emerson.com
Customer Contact:	Ian Everts	**Service Representative:**	ROBERT LOERA
Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type: Temperature Transmitter	**Serial #: 0**	**Range: 0 to 800 Deg. F**
Device Tag: 21HBK70CT031	**Sensor Type: Type K**	
Model: YTA110A		

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021

As Found Calibration Data

Specified Range Deg F	Applied % Of Span	Applied Deg F	Specified Analog Output In mA	Output Tolerance +/-	Indicated Digital Output In F	Measured Analog Output In mA	Pass/Fail
0.00	0.00	0.00	4.0000	0.012	0.34	4.0080	Pass
200.00	25.00	200.00	8.0000	0.012	200.23	8.0040	Pass
400.00	50.00	400.00	12.0000	0.012	400.40	12.0070	Pass
600.00	75.00	600.00	16.0000	0.012	600.26	16.0040	Pass
800.00	100.00	800.00	20.0000	0.012	800.24	20.0040	Pass

As Left Calibration Data

0.00	0.00	0.00	4.0000	0.012	0.34	4.0080	Pass
200.00	25.00	200.00	8.0000	0.012	200.23	8.0040	Pass
400.00	50.00	400.00	12.0000	0.012	400.40	12.0070	Pass
600.00	75.00	600.00	16.0000	0.012	600.26	16.0040	Pass
800.00	100.00	800.00	20.0000	0.012	800.24	20.0040	Pass

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Contact Information

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Customer Contact:	Ian Everts	**Service Representative:**	ROBERT LOERA
Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type: Temperature Transmitter	**Serial #: 0**	**Range: 0 to 800 Deg. F**
Device Tag: 11HBK70CT031	**Sensor Type: Type K**	
Model: YTA110A		

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021

As Found Calibration Data

Specified Range Deg F	Applied % Of Span	Applied Deg F	Specified Analog Output In mA	Output Tolerance +/-	Indicated Digital Output In F	Measured Analog Output In mA	Pass/Fail
0.00	0.00	0.00	4.0000	0.012	0.20	4.0040	Pass
200.00	25.00	200.00	8.0000	0.012	200.04	8.0020	Pass
400.00	50.00	400.00	12.0000	0.012	400.14	12.0040	Pass
600.00	75.00	600.00	16.0000	0.012	600.12	16.0040	Pass
800.00	100.00	800.00	20.0000	0.012	800.10	20.0040	Pass

As Left Calibration Data

0.00	0.00	0.00	4.0000	0.012	0.20	4.0040	Pass
200.00	25.00	200.00	8.0000	0.012	200.04	8.0020	Pass
400.00	50.00	400.00	12.0000	0.012	400.14	12.0040	Pass
600.00	75.00	600.00	16.0000	0.012	600.12	16.0040	Pass
800.00	100.00	800.00	20.0000	0.012	800.10	20.0040	Pass

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March 30, 2021

CALIBRATION DATA SHEET

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Contact Information

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Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type: Temperature Transmitter	**Serial #: 0**	**Range: 0 to 800 Deg. F**
Device Tag: 21HBK70CT030	**Sensor Type: Type K**	
Model: YTA110A		

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021

As Found Calibration Data

Specified Range Deg F	Applied % Of Span	Applied Deg F	Specified Analog Output In mA	Output Tolerance +/-	Indicated Digital Output In F	Measured Analog Output In mA	Pass/Fail
0.00	0.00	0.00	4.0000	0.012	-0.23	3.9950	Pass
200.00	25.00	200.00	8.0000	0.012	199.65	7.9910	Pass
400.00	50.00	400.00	12.0000	0.012	399.70	11.9900	Pass
600.00	75.00	600.00	16.0000	0.012	599.73	15.9900	Pass
800.00	100.00	800.00	20.0000	0.012	799.67	19.9880	Pass

As Left Calibration Data

0.00	0.00	0.00	4.0000	0.012	-0.23	3.9950	Pass
200.00	25.00	200.00	8.0000	0.012	199.65	7.9910	Pass
400.00	50.00	400.00	12.0000	0.012	399.70	11.9900	Pass
600.00	75.00	600.00	16.0000	0.012	599.73	15.9900	Pass
800.00	100.00	800.00	20.0000	0.012	799.67	19.9880	Pass

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Appendix D
SCR Pressure Gauge Calibration Report

Rosemount Service
8200 Market Blvd.
Chanhassen, MN 55317
T: 800-654-7768
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Process Management

March 30, 2021

CALIBRATION DATA SHEET

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Contact Information

Purchase Order:	MGS21618	**Service Request:**	1957722
Customer Name:	HEOROT POWER LLC	**Quote#:**	7337675-IVS
Location/Project:	VERNON	**Sales Representative:**	Richard Tse
Address 1:	4963 S SOTO ST	**Phone:**	661-345-3675
Address 2:	VERNON, CA, 90058	**Email:**	Richard.Tse@emerson.com
Customer Contact:	Ian Everts	**Service Representative:**	ROBERT LOERA
Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type: Pressure Transmitter		**Serial Number:**	**0**
Device Tag: 2SCR-DP		**Range:**	**0 To 2.5 IN H2O**
Model: EJA110A			

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021
PS-01407	750P01 / +/- 10 In H20	1/09/2022

As Found Calibration Data

Specified Range IN H2O	Applied % Of Span	Applied IN H2O	Specified Analog Output In mA	Output Tolerance +/-	Indicated Digital Output In IN H2O	Measured Analog Output In mA	Pass/Fail
0.000	0.00	0.000	4.0000	0.016	0.000	4.0180	Fail
0.625	25.00	0.625	8.0000	0.016	0.630	8.8600	Fail
1.250	50.00	1.250	12.0000	0.016	1.270	12.1500	Fail
1.875	75.00	1.875	16.0000	0.016	1.900	16.2210	Fail
2.500	100.00	2.500	20.0000	0.016	2.530	20.2880	Fail

As Left Calibration Data

0.000	0.00	0.000	4.0000	0.016	0.000	4.0020	Pass
0.625	25.00	0.625	8.0000	0.016	0.625	8.0000	Pass
1.250	50.00	1.250	12.0000	0.016	1.250	11.9980	Pass
1.875	75.00	1.875	16.0000	0.016	1.875	16.0050	Pass
2.500	100.00	2.500	20.0000	0.016	2.500	20.0080	Pass

Certification

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Rosemount Service Representative
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March 30, 2021
Date

Rosemount Service
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Chanhassen, MN 55317
T: 800-654-7768
F: 952-906-8844

EMERSON.
Process Management

March 30, 2021

CALIBRATION DATA SHEET

Consistent with ISO 10474 2.1 or EN 10204 2.1

Contact Information

Purchase Order:	MGS21618	**Service Request:**	1957722
Customer Name:	HEOROT POWER LLC	**Quote#:**	7337675-IVS
Location/Project:	VERNON	**Sales Representative:**	Richard Tse
Address 1:	4963 S SOTO ST	**Phone:**	661-345-3675
Address 2:	VERNON, CA, 90058	**Email:**	Richard.Tse@emerson.com
Customer Contact:	Ian Everts	**Service Representative:**	ROBERT LOERA
Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type: Pressure Transmitter		**Serial Number:**	**4792212**
Device Tag: 1SCR-DP		**Range:**	**0 To 2.5 IN H2O**
Model: EJA110A			

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021
PS-01407	750P01 / +/- 10 In H20	1/09/2022

As Found Calibration Data

Specified Range IN H2O	Applied % Of Span	Applied IN H2O	Specified Analog Output In mA	Output Tolerance +/-	Indicated Digital Output In IN H2O	Measured Analog Output In mA	Pass/Fail
0.000	0.00	0.000	4.0000	0.016	0.010	4.1090	Fail
0.625	25.00	0.625	8.0000	0.016	0.650	8.1080	Fail
1.250	50.00	1.250	12.0000	0.016	0.128	12.1300	Fail
1.875	75.00	1.875	16.0000	0.016	1.920	16.1360	Fail
2.500	100.00	2.500	20.0000	0.016	2.550	20.1450	Fail

As Left Calibration Data

0.000	0.00	0.000	4.0000	0.016	0.000	4.0070	Pass
0.625	25.00	0.625	8.0000	0.016	0.625	8.0050	Pass
1.250	50.00	1.250	12.0000	0.016	1.250	11.9920	Pass
1.875	75.00	1.875	16.0000	0.016	1.875	15.9960	Pass
2.500	100.00	2.500	20.0000	0.016	2.500	19.9900	Pass

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CALIBRATION DATA SHEET

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Contact Information

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Customer Name:	HEOROT POWER LLC	**Quote#:**	7337675-IVS
Location/Project:	VERNON	**Sales Representative:**	Richard Tse
Address 1:	4963 S SOTO ST	**Phone:**	661-345-3675
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Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type:	Multivariable
Device Tag:	FTCT1
Model:	3051SFA1G040CCHPS1T100T33JA1A3Q4
Serial #:	47659

Calibration Range Data

Static Pressure Range:	0	To	475	PSI
Differential Pressure Range:	0	To	143	InH2O
Temperature Range:	0	To	200	F
Analog Output Range:	4	To	20	mA

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021
PS-00900	700P09 / 0 to 1500 PSIG	1/09/2022
PS-01360	700PD5 / -15 to 30 PSIG (831.9 In H20)	1/09/2022

As Found Calibration Data

	Static Pressure				Differential Pressure			
Target % Of Span	Specified Range in PSI	Applied PSI	Indicated Static Pressure in PSI	Pass Fail +/- 0.11875 PSI	Specified Range InH2O	Applied InH2O	Indicated Differential Pressure InH2O	Pass Fail +/- 0.040 % Reading
0.00	0.00	0.000	0.000	Pass	0.00	0.000	0.100	Fail
25.00	118.75	118.750	118.750	Pass	35.75	35.750	35.900	Fail
50.00	237.50	237.500	237.490	Pass	71.50	71.500	71.700	Fail
75.00	356.25	356.250	356.260	Pass	107.25	107.250	107.500	Fail
100.00	475.00	475.000	475.100	Pass	143.00	143.000	143.300	Fail
	Temperature				**Analog Out**			
Target % Of Span	Specified Range Deg F	Applied Deg F	Indicated Digital Temp Deg F	Pass Fail +/- 0.67 Deg F	Specified Range mA	Simulated mA	Indicated Output mA	Pass Fail +/- 0.0064 mA
0.00	0.00	0.00	-0.360	Pass	4.0000	4.0000	3.9980	Pass
25.00	50.00	50.00	49.620	Pass	8.0000	8.0000	7.9990	Pass
50.00	100.00	100.00	99.570	Pass	12.0000	12.0000	12.0000	Pass
75.00	150.00	150.00	149.690	Pass	16.0000	16.0000	16.0000	Pass
100.00	200.00	200.00	199.740	Pass	20.0000	20.0000	20.0000	Pass

As Left Calibration Data

	Static Pressure				Differential Pressure			
Target % Of Span	Specified Range in PSI	Applied PSI	Indicated Static Pressure in PSI	Pass Fail +/- 0.11875 PSI	Specified Range InH2O	Applied InH2O	Indicated Differential Pressure InH2O	Pass Fail +/- 0.040 % Reading
0.00	0.00	0.000	0.000	Pass	0.00	0.000	0.000	Pass
25.00	118.75	118.750	118.750	Pass	35.75	35.750	35.760	Pass
50.00	237.50	237.500	237.490	Pass	71.50	71.500	71.520	Pass
75.00	356.25	356.250	356.260	Pass	107.25	107.250	107.240	Pass
100.00	475.00	475.000	475.100	Pass	143.00	143.000	143.020	Pass
	Temperature				**Analog Out**			
Target % Of Span	Specified Range Deg F	Applied Deg F	Indicated Digital Temp Deg F	Pass Fail +/- 0.67 Deg F	Specified Range mA	Simulated mA	Indicated Output mA	Pass Fail +/- 0.0064 mA
0.00	0.00	0.00	-0.360	Pass	4.0000	4.0000	3.9980	Pass
25.00	50.00	50.00	49.620	Pass	8.0000	8.0000	7.9990	Pass
50.00	100.00	100.00	99.570	Pass	12.0000	12.0000	12.0000	Pass
75.00	150.00	150.00	149.690	Pass	16.0000	16.0000	16.0000	Pass
100.00	200.00	200.00	199.740	Pass	20.0000	20.0000	20.0000	Pass

Certification

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ROBERT LOERA

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CALIBRATION DATA SHEET

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Contact Information

Purchase Order:	MGS21618	**Service Request:**	1957722
Customer Name:	HEOROT POWER LLC	**Quote#:**	7337675-IVS
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Phone:	323-350-3481	**Phone:**	909-275-5581
Email:	ieverts@heorotpower.com	**Email:**	Robert.Loera@emerson.com

Device Information

Device Type:	Multivariable
Device Tag:	FTCT2
Model:	3051SFA1G040CCHPS1T100T33JA1A3Q4
Serial #:	47658

Calibration Range Data

Static Pressure Range:	0	To	475	PSI
Differential Pressure Range:	0	To	143	InH2O
Temperature Range:	0	To	200	F
Analog Output Range:	4	To	20	mA

Test Equipment Used

Asset #	Description	Calibration Due
ES-01491	FLUKE 754	06/23/2021
PS-00900	700P09 / 0 to 1500 PSIG	1/09/2022
PS-01360	700PD5 / -15 to 30 PSIG (831.9 In H20)	1/09/2022

As Found Calibration Data

	Static Pressure				Differential Pressure			
Target % Of Span	Specified Range in PSI	Applied PSI	Indicated Static Pressure in PSI	Pass Fail +/- 0.11875 PSI	Specified Range InH2O	Applied InH2O	Indicated Differential Pressure InH2O	Pass Fail +/- 0.040 % Reading
0.00	0.00	0.000	0.000	Pass	0.00	0.000	0.100	Fail
25.00	118.75	118.750	118.760	Pass	35.75	35.750	35.940	Fail
50.00	237.50	237.500	237.520	Pass	71.50	71.500	71.790	Fail
75.00	356.25	356.250	356.240	Pass	107.25	107.250	107.640	Fail
100.00	475.00	475.000	475.050	Pass	143.00	143.000	143.480	Fail
	Temperature				**Analog Out**			
Target % Of Span	Specified Range Deg F	Applied Deg F	Indicated Digital Temp Deg F	Pass Fail +/- 0.67 Deg F	Specified Range mA	Simulated mA	Indicated Output mA	Pass Fail +/- 0.0064 mA
0.00	0.00	0.00	-0.170	Pass	4.0000	4.0000	4.0290	Fail
25.00	50.00	50.00	49.750	Pass	8.0000	8.0000	8.0300	Fail
50.00	100.00	100.00	99.730	Pass	12.0000	12.0000	12.0310	Fail
75.00	150.00	150.00	149.890	Pass	16.0000	16.0000	16.0320	Fail
100.00	200.00	200.00	199.900	Pass	20.0000	20.0000	20.0340	Fail

As Left Calibration Data

	Static Pressure				Differential Pressure			
Target % Of Span	Specified Range in PSI	Applied PSI	Indicated Static Pressure in PSI	Pass Fail +/- 0.11875 PSI	Specified Range InH2O	Applied InH2O	Indicated Differential Pressure InH2O	Pass Fail +/- 0.040 % Reading
0.00	0.00	0.000	0.000	Pass	0.00	0.000	0.000	Pass
25.00	118.75	118.750	118.760	Pass	35.75	35.750	35.750	Pass
50.00	237.50	237.500	237.520	Pass	71.50	71.500	71.510	Pass
75.00	356.25	356.250	356.240	Pass	107.25	107.250	107.260	Pass
100.00	475.00	475.000	475.050	Pass	143.00	143.000	143.030	Pass
	Temperature				**Analog Out**			
Target % Of Span	Specified Range Deg F	Applied Deg F	Indicated Digital Temp Deg F	Pass Fail +/- 0.67 Deg F	Specified Range mA	Simulated mA	Indicated Output mA	Pass Fail +/- 0.0064 mA
0.00	0.00	0.00	-0.170	Pass	4.0000	4.0000	4.0000	Pass
25.00	50.00	50.00	49.750	Pass	8.0000	8.0000	8.0000	Pass
50.00	100.00	100.00	99.730	Pass	12.0000	12.0000	12.0000	Pass
75.00	150.00	150.00	149.890	Pass	16.0000	16.0000	16.0000	Pass
100.00	200.00	200.00	199.900	Pass	20.0000	20.0000	20.0000	Pass

Certification

This is to validate that the listed product performs within the acceptable performance variation of the test equipment. Measuring and test equipment used in the inspection and validation of the listed product are traceable to the National Institute of Standards and Technology.

ROBERT LOERA

ROBERT LOERA
Rosemount Service Representative
PH: 909-275-5581

March 29, 2021
Date

Appendix E
Diesel Firewater Pump Operating Logs

Malburg Generating Station
Diesel Firewater Pump Testing Times
During Calendar Year 2021

Date	Time (hh:mm)	Start Hours	End Hours	Event Type	Hours of Operation
1/3/2021	21:57	306.1	306.6	Testing	0.50
1/10/2021	22:57	306.6	307.1	Testing	0.50
1/17/2021	21:37	307.1	307.6	Testing	0.50
1/24/2021	22:49	307.6	308.2	Testing	0.60
1/31/2021	23:01	308.2	308.5	Testing	0.30
2/7/2021	22:29	308.5	309.1	Testing	0.60
2/16/2021	23:28	309.1	309.5	Testing	0.40
2/23/2021	13:47	309.5	310.0	Testing	0.50
3/1/2021	1:58	310.0	310.6	Testing	0.60
3/7/2021	20:53	310.6	311.1	Testing	0.50
3/14/2021	23:47	311.1	311.6	Testing	0.50
3/21/2021	23:19	311.6	312.1	Testing	0.50
4/4/2021	22:51	312.2	312.7	Testing	0.60
4/11/2021	22:55	312.7	313.2	Testing	0.50
4/18/2021	22:53	313.2	313.7	Testing	0.50
4/25/2021	22:54	313.7	314.2	Testing	0.50
5/2/2021	23:23	314.3	314.8	Testing	0.60
5/10/2021	0:12	314.8	315.3	Testing	0.50
5/16/2021	22:58	315.3	315.8	Testing	0.50
5/23/2021	23:50	315.8	316.3	Testing	0.50
6/2/2021	22:48	316.3	316.7	Testing	0.40
6/7/2021	0:46	316.7	317.2	Testing	0.50
6/13/2021	23:44	317.2	317.7	Testing	0.50
6/20/2021	21:57	317.7	318.3	Testing	0.60
6/27/2021	23:59	318.3	318.7	Testing	0.40
7/4/2021	23:49	318.7	319.2	Testing	0.50
7/11/2021	22:54	319.2	319.7	Testing	0.50
7/18/2021	22:52	319.7	320.3	Testing	0.60
7/25/2021	22:59	320.3	320.8	Testing	0.50
8/1/2021	23:22	320.8	321.3	Testing	0.50
8/8/2021	23:20	321.3	321.8	Testing	0.50
8/15/2021	20:32	321.8	322.3	Testing	0.50
8/23/2021	1:47	322.3	322.8	Testing	0.50
8/29/2021	23:16	322.8	323.3	Testing	0.50
9/5/2021	23:28	323.3	323.8	Testing	0.50
9/12/2021	23:41	323.8	324.3	Testing	0.50
9/19/2021	22:52	324.3	324.8	Testing	0.50
9/26/2021	22:46	324.8	325.3	Testing	0.50
10/3/2021	23:20	325.3	325.8	Testing	0.50
10/11/2021	0:06	325.8	326.3	Testing	0.50
10/17/2021	20:33	326.3	326.7	Testing	0.40
10/24/2021	22:22	326.7	326.8	Testing	0.10
10/27/2021	11:00	326.8	327.3	Testing	0.50
11/7/2021	21:21	327.3	327.8	Testing	0.50
11/14/2021	19:18	327.8	328.3	Testing	0.50
11/21/2021	22:45	328.3	328.8	Testing	0.50
11/28/2021	22:25	328.8	329.3	Testing	0.50
12/12/2021	23:10	329.3	329.8	Testing	0.50
12/19/2021	20:17	329.8	330.3	Testing	0.50
12/26/2021	21:22	330.3	330.8	Testing	0.50

Appendix F
Hazardous Materials Inventory

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Ammonia Distribution - HRSG 1 Vaporizing Skid**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Toxic, Flammable Liquid, Class I-C	**Aqueous Ammonia** CAS No 1336-21-6 Map: SA-3A Grid: 4/5 B Item 18	**Gallons** State Liquid Type Pure	**50** Storage Container Other Days on Site: 365	**50**	50 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Ammonia Distribution - HRSG 2 Vaporizing Skid**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Toxic, Flammable Liquid, Class I-C	**Aqueous Ammonia** CAS No 1336-21-6 Map: SA-3A Grid: 4/5 B Item 19	**Gallons** State Liquid Type Pure	**50** Storage Container Other Days on Site: 365	**50**	50 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Ammonia Distribution - Underground Piping**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Toxic, Flammable Liquid, Class I-C	**Aqueous Ammonia** CAS No 1336-21-6 Map: SA-3A Grid: 2 C/D Item 16	**Gallons** State Liquid Type Pure	**50** Storage Container Aboveground Tank Days on Site: 365	**50**	50 Pressue Temperature	Waste Code	- Physical Flammable - Physical Gas Under Pressure - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Ammonia Storage Area - Pump Skid**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Toxic, Flammable Liquid, Class I-C	**Aqueous Ammonia** CAS No 1336-21-6 Map: SA-3A Grid: 2 C/D Item 16	**Gallons** State Liquid Type Pure	**5** Storage Container Aboveground Tank Days on Site: 365	**5**	5 Pressue Temperature	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Ammonia Storage Area - Storage Tank**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Toxic, Flammable Liquid, Class I-C	**Aqueous Ammonia** CAS No 1336-21-6 Map: SA-3A Grid: 2 C/D Item 15	**Gallons** State Liquid Type Pure	**8000** Storage Container Aboveground Tank Days on Site: 365	**10809**	4000 Pressue Temperature	Waste Code	- Physical Flammable - Physical Gas Under Pressure - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Auxiliary Power Distribution Transformer Area Transformer A**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Transformer Oil** CAS No 64742-53-6 Map: SA-3A Grid: 1 B Item 44	**Gallons** State Liquid Type Mixture	**285** Storage Container Other Days on Site: 365	**285**	285 Pressue > Ambient Temperature > Ambient	Waste Code	- Physical Flammable	Severely Hydrotreated Light Napthalic Hydro Oil	100 %		64742-53-6

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Auxiliary Power Distribution Transformer Area Transformer B**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Transformer Oil** CAS No 64742-53-6 Map: SA-3A Grid: 1 B Item 45	**Gallons** State Liquid Type Mixture	**285** Storage Container Other Days on Site: 365	**285**	285 Pressue > Ambient Temperature > Ambient	Waste Code	- Physical Flammable	Severely Hydrotreated Light Napthalic Hydro Oil	100 %		64742-53-6

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **CEMS Building**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 2.2 - Nonflammable Gases	**Nitrogen Gas** CAS No 7727-37-9 Map: SA-3A Grid: 3 B Item 36	**Cu. Feet** State: Gas Type: Pure	**568** Storage Container: Cylinder Days on Site: 365	**568**	284 Pressue: > Ambient Temperature: Ambient	Waste Code	- Physical Gas Under Pressure				
DOT: 2.2 - Nonflammable Gases	**Nitrogen / Nitrogen Oxide / Carbon Monoxide Blend** CAS No Map: SA-3A Grid: 3 B Item 37	**Cu. Feet** State: Gas Type: Pure	**1704** Storage Container: Cylinder Days on Site: 365	**284**	852 Pressue: > Ambient Temperature: Ambient	Waste Code	- Physical Gas Under Pressure				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Combustion Turbine Generator Building CTG1**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Lubricating Oil	**Gallons**	**3700**	**3700**	3700		- Physical Flammable				
Combustible Liquid, Class III-B	CAS No 64742-54-7 Map: SA-3A Grid: 6/7 B Item 33	State Liquid Type Mixture	Storage Container Aboveground Tank, Other Days on Site: 365		Pressue > Ambient Temperature > Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Combustion Turbine Generator Building CTG2**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Lubricating Oil	**Gallons**	**3700**	**3700**	3700		- Physical Flammable				
Combustible Liquid, Class III-B	CAS No 64742-54-7 Map: SA-3A Grid: 6/7 B Item 34	State Liquid Type Mixture	Storage Container Aboveground Tank Days on Site: 365		Pressue > Ambient Temperature > Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Covered Storage Area Next to Ammonia Tank**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class II	**Diesel Fuel No. 2** CAS No 68476-34-6 Map: SA-3A Grid: D3	**Gallons** State Liquid Type Pure	**110** Storage Container Steel Drum Days on Site: 365	**55**	110 Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity				
	Rags CAS No 65996-61-4	**Pounds** State Solid Type Waste	**5** Storage Container Steel Drum Days on Site: 180	**55**	1 Pressue Temperature	500 Waste Code		Oil Rags Wipes, Polypropylene	30 % 70 % 20 %		8012-95-1
Combustible Liquid, Class III-B	**Used lubricating oils** CAS No 70514-12-4	**Gallons** State Liquid Type Waste	**5** Storage Container Steel Drum	**55**	1 Pressue Ambient Temperature Ambient	350 Waste Code 221		Waste Oil Water	95 % 5 %		70514-12-4 7732-18-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Diesel Fire Pump House**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class II	**Diesel Fuel No. 2** CAS No 68476-34-6 Map: SA-3A Grid: 8 C Item 46	**Gallons** State Liquid Type Pure	**180** Storage Container Tank Inside Building Days on Site: 365	**180**	180 Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Generator Step up (GSU) Area - GSU CTG1**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 2.2 - Nonflammable Gases	**Nitrogen Gas** CAS No 7727-37-9 Map: SA-3A Grid: 7 D Item 30	**Cu. Feet** State: Gas Type: Pure	**140** Storage Container: Cylinder Days on Site: 365		Pressue: > Ambient Temperature: Ambient	Waste Code	- Physical Gas Under Pressure				
Combustible Liquid, Class III-B	**Transformer Oil** CAS No 64742-53-6 Map: SA-3A Grid: 7 D Item 30	**Gallons** State: Liquid Type: Mixture	**4370** Storage Container: Other Days on Site: 365	**4370**	4370 Pressue: > Ambient Temperature: > Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure	Severely Hydrotreated Light Napthalic Hydro Oil	100 %		64742-53-6

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Generator Step up (GSU) Area - GSU CTG2**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 2.2 - Nonflammable Gases	**Nitrogen Gas** CAS No 7727-37-9 Map: SA-3A Grid: 7 D Item 31	**Cu. Feet** State: Gas Type: Pure	**140** Storage Container: Cylinder Days on Site: 365		Pressue: > Ambient Temperature: Ambient	Waste Code	- Physical Gas Under Pressure				
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Transformer Oil** CAS No 64742-53-6 Map: SA-3A Grid: 7 D Item 31	**Gallons** State: Liquid Type: Mixture	**4370** Storage Container: Other Days on Site: 365	**4370**	4370 Pressue: > Ambient Temperature: > Ambient	Waste Code	- Physical Flammable	Severely Hydrotreated Light Napthalic Hydro Oil	100 %		64742-53-6

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Generator Step up (GSU) Area - GSU STG**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 2.2 - Nonflammable Gases	**Nitrogen Gas** CAS No 7727-37-9 Map: SA-3A Grid: 6 D Item 32	**Cu. Feet** State Gas Type Pure	**140** Storage Container Cylinder Days on Site: 365		0 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Health Simple Asphyxiant				
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Transformer Oil** CAS No 64742-53-6 Map: SA-3A Grid: 6 D Item 32	**Gallons** State Liquid Type Mixture	**4835** Storage Container Other Days on Site: 365	**4835**	4835 Pressue > Ambient Temperature > Ambient	Waste Code	- Physical Flammable	Severely Hydrotreated Light Napthalic Hydro Oil	100 %		64742-53-6

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **HRSG Cooling Tower Bulk Chemical Area**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
Combustible Liquid, Class III-B, Toxic	**Acrylate Polymer, Phosphate, Phosphonate** CAS No Map: SA-3B Grid: 2 A Item 6	**Gallons** State: Liquid Type: Mixture	**1300** Storage Container: Aboveground Tank Days on Site: 365	**1300**	650 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Skin Corrosion Irritation				
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Oxidizing, Class 2, Toxic	**Sodium Hypochlorite** CAS No 7681-52-9 Map: SA-3B Grid: 2 A Item 8	**Gallons** State: Liquid Type: Pure	**2400** Storage Container: Plastic/Non-metalic Drum Days on Site: 365	**2400**	1500 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Oxidizer - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation				
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Water Reactive, Class 2, Toxic	**Sulfuric Acid 66 Be** CAS No 7664-93-9 Map: SA-3B Grid: 2 A Item 7	**Gallons** State: Liquid Type: Pure	**2500** Storage Container: Aboveground Tank Days on Site: 365	**2500**	1500 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Corrosive To Metal - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **HRSG Cooling Tower Specialty Chemical Area**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Toxic, Flammable Liquid, Class I-C	**Biocide** CAS No Map: SA-3B Grid: 4 B/C Item 4	**Gallons** State: Liquid Type: Mixture	**150** Storage Container: Aboveground Tank Days on Site: 365	**75**	100 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Dimethyl-Dioctyl-Ammonium Chloride Glycerol	50 % 10 %		5538-94-3 56-81-5
Flammable Liquid, Class I-C	**Biodispersant - Deposit Penetrant** CAS No Map: SA-3B Grid: 4 B/C Item 5	**Gallons** State: Liquid Type: Mixture	**475** Storage Container: Aboveground Tank Days on Site: 365	**400**	250 Pressue: Ambient Temperature: Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **HRSG Water Chemical Area**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
Corrosive	**Boiler Phosphate** CAS No Map: SA-3A Grid: 3 B/C Item 3	**Gallons** State: Liquid Type: Mixture	**200** Storage Container: Aboveground Tank Days on Site: 365	**200**	100 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Skin Corrosion Irritation	Sodium Hydroxide Sodium Tripolyphosphate	5 % 5 %		1310-73-2 7758-29-4
Toxic, Corrosive, Flammable Liquid, Class I-C, Combustible Liquid, Class II	**Corrosion Inhibitor** CAS No Map: SA-3A Grid: S B/C Item 2	**Gallons** State: Liquid Type: Mixture	**600** Storage Container: Aboveground Tank Days on Site: 365	**200**	400 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity	Cyclohexylamine Morpholine	30 % 10 %	✓	108-91-8 110-91-8
Explosive	**Oxygen Scavenger** CAS No 497-18-7 Map: SA-3A Grid: 3 B/C Item 1	**Gallons** State: Liquid Type: Mixture	**300** Storage Container: Aboveground Tank Days on Site: 365	**200**	200 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Explosive - Health Acute Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. City of Vernon, Vernon Public Utilities
Facility Name Malburg Generating Station
4963 S Soto St, Vernon 90058

Chemical Location Main Power Distribution Transformer Area Transformer A

CERS ID 10451263
Facility ID VERN
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Transformer Oil** CAS No 64742-53-6 Map: SA-3A Grid: 5/6 Item 42	**Gallons** State Liquid Type Mixture	**280** Storage Container Other Days on Site: 365	**280**	280 Pressue > Ambient Temperature > Ambient	Waste Code	- Physical Flammable	Severely Hydrotreated Light Napthalic Hydro Oil	100 %		64742-53-6

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. City of Vernon, Vernon Public Utilities
Facility Name Malburg Generating Station
4963 S Soto St, Vernon 90058

Chemical Location Main Power Distribution Transformer Area Transformer B

CERS ID 10451263
Facility ID VERN
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Transformer Oil** CAS No 64742-53-6 Map: SA-3A Grid: 5/6 Item 43	**Gallons** State Liquid Type Mixture	**280** Storage Container Other Days on Site: 365	**280**	280 Pressue > Ambient Temperature > Ambient	Waste Code	- Physical Flammable	Severely Hydrotreated Light Napthalic Hydro Oil	100 %		64742-53-6

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Natural Gas Accumulator**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Natural Gas	**Cu. Feet**	**1600**	**1600**	1600		- Physical Flammable - Physical Gas Under Pressure - Physical Explosive - Health Simple Asphyxiant				
Flammable Gas, Explosive, Toxic	CAS No 8006-14-2 Map: SA-3A Grid: 4 C Item 23	State Gas Type Pure	Storage Container Aboveground Tank Days on Site: 365		Pressue > Ambient Temperature Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Natural Gas Compressor Skid**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
Flammable Gas, Explosive	**Natural Gas** CAS No 8006-14-2 Map: SA-3A Grid: 4 C Item 20	**Cu. Feet**	**4000**	**4000**	4000		- Physical Flammable - Physical Gas Under Pressure - Physical Explosive - Health Simple Asphyxiant				
		State: Gas	Storage Container: Aboveground Tank		Pressue: > Ambient	Waste Code					
		Type: Pure	Days on Site: 365		Temperature: Ambient						
Combustible Liquid, Class III-B	**Lubricating Oli** CAS No 64742-54-7 Map: SA-3A Grid: 4 C	**Gallons**	**55**	**55**	55		- Physical Flammable				
		State: Liquid	Storage Container: Aboveground Tank		Pressue: > Ambient	Waste Code					
		Type: Pure	Days on Site: 365		Temperature: > Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Natural Gas Cooler**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
Flammable Gas	**Natural Gas** CAS No 8006-14-2 Map: SA-3A Grid: 4 C Item 22	**Cu. Feet** State Gas Type Pure	**1600** Storage Container Aboveground Tank Days on Site: 365	**1600**	1600 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure - Physical Explosive - Health Simple Asphyxiant				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Natural Gas CTG1 Metering / Control Skid**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Natural Gas	**Cu. Feet**	**9000**	**9000**	9000		- Physical Flammable - Physical Gas Under Pressure - Physical Explosive - Health Simple Asphyxiant				
Flammable Gas, Explosive, Toxic	CAS No 8006-14-2 Map: SA-3A Grid: 6 B Item 26	State Liquid Type Pure	Storage Container Aboveground Tank Days on Site: 365		Pressue > Ambient Temperature Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Natural Gas Electric Heater**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
Flammable Gas, Explosive	**Natural Gas** CAS No 8006-14-2 Map: SA-3B Grid: 4 C Item 24 State Gas Type Pure	**Cu. Feet** Storage Container Aboveground Tank Days on Site: 365	**1600**	**1600**	1600 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure - Physical Explosive - Health Simple Asphyxiant				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Natural Gas Liquid Drain Tank**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Lubricating Oil	**Gallons**	**185**	**185**	50	200	- Physical Flammable				
Flammable Gas, Combustible Liquid, Class III-A	CAS No 64742-54-7 Map: SA-3A Grid: 4 C Item 25	State Liquid Type Pure	Storage Container Aboveground Tank Days on Site: 365		Pressue > Ambient Temperature Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Natural Gas Regulation / Metering Pad**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
Flammable Gas, Explosive	**Natural Gas** CAS No 8006-14-2 Map: SA-3A Grid: 4 C Item 21 State Gas Type Pure	**Cu. Feet** Storage Container Aboveground Tank Days on Site: 365	**3000**	**3000**	3000 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure - Physical Explosive - Health Simple Asphyxiant				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. City of Vernon, Vernon Public Utilities
Facility Name Malburg Generating Station
4963 S Soto St, Vernon 90058

Chemical Location Starting Motor Transformer CTG1

CERS ID 10451263
Facility ID VERN
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Transformer Oil** CAS No 64742-53-6 Map: SA-3A Grid: 7 B Item 40	**Gallons** State Liquid Type Mixture	**490** Storage Container Other Days on Site: 365	**490**	490 Pressue > Ambient Temperature > Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure	Severely Hydrotreated Light Napthalic Hydro Oil	100 %		64742-53-6

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. City of Vernon, Vernon Public Utilities
Facility Name Malburg Generating Station
4963 S Soto St, Vernon 90058

Chemical Location Starting Motor Transformer CTG2

CERS ID 10451263
Facility ID VERN
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Transformer Oil** CAS No 64742-53-6 Map: SA-3A Grid: 7 C Item 41	**Gallons** State Liquid Type Mixture	**490** Storage Container Other Days on Site: 365	**490**	490 Pressue > Ambient Temperature > Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure	Severely Hydrotreated Light Napthalic Hydro Oil	100 %		64742-53-6

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Steam Turbine Generator Building - STG**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Lubricating Oil	**Gallons**	**4480**	**4480**	4480						
	CAS No: 64742-54-7 Map: SA-3A Grid: 2 B/C Item 35	State: Liquid Type: Mixture	Storage Container: Aboveground Tank Days on Site: 365		Pressue: > Ambient Temperature: > Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **City of Vernon, Vernon Public Utilities**
Facility Name **Malburg Generating Station**
4963 S Soto St, Vernon 90058

Chemical Location **Water Treatment Chemical Area**

CERS ID **10451263**
Facility ID **VERN**
Status **Submitted** on 1/28/2022 9:44 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
Corrosive, Toxic	**Anti-Scalant** CAS No Map: SA-3B Grid: 5 C Item 56	**Gallons** State: Liquid Type: Mixture	**75** Storage Container: Other Days on Site: 365	**75**	50 Pressue Temperature	Waste Code		Phosphonic Acid Salt Alkali Hydroxide Aminotrialkylphosphonic Acid Phosphonic Acid	12 % 9 % 16 % 1 %		Proprietary Proprietary Proprietary Proprietary
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Toxic, Water Reactive, Class 1	**Caustic Soda** CAS No 1310-73-2 Map: SA-3B Grid: 5 C Item 13	**Gallons** State: Liquid Type: Pure	**400** Storage Container: Other Days on Site: 365	**400**	300 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Corrosive To Metal - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation				
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Toxic	**Chlorine Scavenger** CAS No 7631-90-5 Map: SA-3B Grid: 5 C Item 12	**Gallons** State: Liquid Type: Pure	**100** Storage Container: Other Days on Site: 365	**100**	75 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation				
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Oxidizing, Class 2, Toxic	**Sodium Hypochlorite** CAS No 7681-52-9 Map: SA-3B Grid: 5C Item 14	**Gallons** State: Liquid Type: Pure	**100** Storage Container: Plastic/Non-metalic Drum Days on Site: 365	**100**	1 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Oxidizer - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation				

Appendix G
Station “A” Maintenance Report

ANNUAL COMPLIANCE REPORT
CONDITION OF CERTIFICATION NUMBER
CUL-8, YEAR 2021

For the:

MALBURG GENERATING STATION
(Docket 01-AFC-25C)

Submitted To:

CALIFORNIA ENERGY COMMISSION
715 P Street
Sacramento, CA 95814

Prepared by:

City of Vernon, Public Utilities Department
4305 Santa Fe Avenue
Vernon, CA 90058

MALBURG GENERATING STATION
ANNUAL COMPLIANCE REPORT
CONDITION OF CERTIFICATION NUMBER CUL-8
YEAR 2021

INTRODUCTION

The City of Vernon, Public Utilities Department (VPU) has been operating an electric power generating facility (Station "A") since 1933 in the City of Vernon. The facility consists of the Johnson & Heinze Diesel Plant and H. Gonzales Generating Station. VPU constructed Malburg Generating Station (MGS) at the Station "A" facility in 2005 (01-AFC-25C). The commissioning of MGS was completed in October 2005 and the power plant was put under commercial operation on October 17, 2005. VPU sold MGS to Bicent (California) Malburg LLC (Bicent) in 2008. However, effective December 14, 2021, VPU purchased MGS back from Bicent (see Transaction Number 240950 for the petition to request a change in ownership).

Condition of Certification Number CUL-8 requires the Station "A" building to be maintained as an Historic Property in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties, which include standards for preservation, rehabilitation, restoration, and reconstruction, as codified in Title 36 of the Code of Federal Regulations (CFR), Part 68 (1995). Each of the standards can be applied to an historic property to assist the long-term preservation of a property's significance through the retention of historic materials and features.

The Station "A" building is still in use and no major changes or alterations occurred to the building in 2021. Only routine maintenance occurred in 2021, in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties.

To verify that the Station "A" building is maintained in accordance with the Standards for the Treatment of Historic Properties (36 CFR Part 68), the California Energy Commission (CEC) requires VPU to submit an annual report that summarizes the maintenance activities completed to preserve the property within each calendar year. VPU is, therefore, submitting this annual compliance report, which provides a summary of the maintenance activities completed for the Station "A" building during 2021.

COMPLIANCE DETAILS FOR CONDITION OF CERTIFICATION NUMBER CUL-8

As per Condition of Certification Number CUL-8, the project owner shall ensure that Station "A" is maintained in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties (36 CFR Part 68). The project owner shall provide a summary of maintenance activities completed within each calendar year. These maintenance activities were completed in accordance with the Secretary of the Interior's Standards for Preservation, as detailed in 36 CFR Part 68, and sustained the historic use and appearance of the building; did not alter or diminish its historic character, materials, features, or spaces; avoided use of abrasive chemical or physical treatments; and preserved its craftsmanship.

For verification of the above condition of certification, the project owner shall include the summary of Station "A" maintenance activities completed to preserve the Station "A" building within the calendar year. A summary of the maintenance activities completed by VPU during the year 2021 is presented below.

Maintenance Activities Completed to Preserve the Exterior of the Station "A" Building:

1. **Weekly Maintenance of the Exterior of Station "A"**
    a. Cleaning of 50th Street, Seville Avenue and parking lot, and outside areas to the north and east of the building.
    b. Maintenance of lawns, flower beds, and trees provided outside the Station "A" building, including the mowing of lawns.
2. **Monthly Maintenance of the Exterior of Station "A"**

    Sweeping of the following roads: (a) northeast access road from Seville Avenue to the northeast corner of the building, (b) south access road from 50th Street to the northeast corner of the building, (c) 50th Street access gate to Seville Avenue, and (d) Seville Avenue access gate to 50th Street.
3. **Quarterly Maintenance of the Exterior of Station "A"**

    Inspection of the following items: (a) lighting, (b) wastewater separator, (c) safety systems, and (d) compressor backflow catch basin.
4. **Annual Maintenance of the Exterior of Station "A"**
    a. Visual inspection of the Station "A" building (exterior inspection) to determine if maintenance repairs are required.
    b. Cleaning and inspection of roof drains.
    c. Cleaning of first floor exterior windows.

Maintenance Activities Completed to Preserve the Interior of the Station "A" Building:

1. **Daily Maintenance of the Interior of Station "A"**

    Sweeping and mopping of floors (control room, west offices and hallway, east offices and hallway, and dressing room and lavatory).
2. **Weekly Maintenance of the Interior of Station "A"**

    Sweeping and mopping of floors (battery charger room, basement, west 7-kilovolt [kV] room, east 7-kV room, main floor, 480-volt room, operations manager office, control room, machine shop, and piping gallery). Waxing of floors (control room and main floor hallways).
3. **Monthly Maintenance of the Interior of Station "A"**

    Elevator inspection, fire extinguisher inspections, automated external defibrillator (AED) inspection, and eye wash inspections.
4. **Quarterly Maintenance of the Interior of Station "A"**

    Inspection of the following items: (a) crane, (b) lighting, (c) spill cabinet, (d) exit sign emergency lighting, (e) safety systems, (f) smoke detectors, (g) maintenance of air

conditioner units, (h) hot sticks and high voltage gloves used for switching and hot work, and (g) first aid kits.

5. **Semi-Annual Maintenance of the Interior of Station "A"**
    a. Waxing of floors (480-volt room, operations manager office, piping gallery, main floor, west 7-kV room, east 7-kV room, basement, battery charger room, machine shop, muffler deck, engine room, and air washer deck).
    b. Inspection of the east and west 7-kV room fire suppression system.
6. **Annual Maintenance of the Interior of Station "A"**
    a. Testing of potable water backflow device.
    b. Verification of safety data sheet (SDS) book.

Security of the Station "A" Building:

The security system at Station "A" includes 23 high definition (HD) infrared cameras with digital video recording (DVR), 21 of which are physically located on the Station "A" building. Managers and control room staff can access the camera system to monitor any suspicious activity. The camera/intercom system at the Soto Street and Seville Avenue gates also helps identify the vehicles, drivers, passengers, and license plates entering the facility.

The Station "A" building also includes a 24/7 security guard and a locked gate at the Soto Street entrance. The security guard screens visitors seeking access to Station "A". The facility security restricts access to Station "A" to authorized personnel, consistent with Compliance Condition of Certification Number COM-9's Operational Security Plan and industry standards. Exterior and interior doors to Station "A" are accessed via use of a card key issued by the City of Vernon Police Department. All visitors to the facility are recorded in the Visitors and Systems Logs. Monthly checks are performed on all entrance and exit security doors.

Appendix H
MGS Potable and Recycled Water Usage

Malburg Generating Station
Annual Compliance Report
Appendix H, Tables 1 & 2

Table 1. Yearly Reclaimed Water Use - Project Lifetime

Year	Reclaimed Water Used [1]		
	(gal)	(cu. ft.)	(acre-feet)
2021	250,651,653	33,505,100	769.171
2020	253,145,819	33,838,500	776.825
2019	211,811,049	28,313,200	649.982
2018	183,802,933	24,569,300	564.034
2017	233,471,537	31,208,600	716.451
2016	260,574,452	34,831,500	799.621
2015	249,217,545	33,313,400	764.770
2014	286,933,755	38,355,000	880.510
2013	257,708,480	34,448,400	790.826
2012	231,756,143	30,979,300	711.187
Average	**241,907,337**	**32,336,230**	**742.338**

Table 2. Yearly Potable Water Use - Project Lifetime

Year	Potable Water Used [1]		
	(gal)	(cu. ft.)	(acre-feet)
2021	511,117	68,322	1.568
2020	82,291	11,000	0.253
2019	421,180	56,300	1.292
2018	70,321	9,400	0.216
2017	1,220,899	163,200	3.747
2016	195,254	26,100	0.599
2015	412,203	55,100	1.265
2014	58,352	7,800	0.179
2013	0	0	0.000
2012	3,288,648	439,600	10.092
Average	**626,026**	**83,682**	**1.921**

[1] The following conversion factors were used in the above estimates:

1 cu. ft. =	7.481	gallons
1 acre-foot =	43,560	cu. ft.

Malburg Generating Station
Annual Compliance Report
Appendix H
Table 3. Potable Water Usage During 2021

Month	Days of the Month	Potable Water Used [1, 2] (gal)	(cu. ft.)	(acre-feet)	Average Water Usage (gpd)	Hours Used for Process Cooling [3]	Days Used for Process Cooling
January	31	120	16	0.000	4	0.00	0.0
February	28	337	45	0.001	12	0.00	0.0
March	31	838	112	0.003	27	0.00	0.0
April	30	367	49	0.001	12	0.00	0.0
May	31	419	56	0.001	14	0.00	0.0
June	30	97,709	13,061	0.300	3,257	3.08	0.1
July	31	322	43	0.001	10	0.00	0.0
August	31	317,389	42,426	0.974	10,238	1.53	0.1
September	30	10,660	1,425	0.033	355	9.20	0.4
October	31	81,401	10,881	0.250	2,626	2.83	0.1
November	30	247	33	0.001	8	0.00	0.0
December	31	1,309	175	0.004	42	0.00	0.0
Annual Total		**511,117**	**68,322**	**1.568**		**16.65**	**0.7**
Montly Average		**42,593**	**5,694**	**0.131**			
Exceeds Limit of 9 Days per Calendar Year? [4]							**No**

[1] Potable water use is estimated from onsite totalizer meter readings, recorded manually.

[2] The following conversion factors were used in the above estimates:

1 cu. ft. = 7.481 gallons
1 acre-foot = 43,560 cu. ft.

[3] Hours in which potable water is used for process cooling is tracked in the Potable Water Event Log maintained by the Control Room Operators.

[4] Annual limit for using potable water for process cooling as per COC Soil & Water-5.

Malburg Generating Station
Annual Compliance Report
Appendix H
Table 4. Reclaimed Water Usage During 2021

Month	Days of the Month	Reclaimed Water Used [1, 2] (gal)	(cu. ft.)	(acre-feet)	Average Water Usage (gpd)
January	31	20,696,187	2,766,500	63.510	667,619
February	28	14,947,786	1,998,100	45.870	533,850
March	31	11,011,284	1,471,900	33.790	355,203
April	30	19,407,210	2,594,200	59.555	646,907
May	31	22,627,033	3,024,600	69.435	729,904
June	30	23,143,222	3,093,600	71.019	771,441
July	31	26,263,547	3,510,700	80.595	847,211
August	31	24,992,525	3,340,800	76.694	806,210
September	30	23,629,487	3,158,600	72.511	787,650
October	31	24,971,578	3,338,000	76.630	805,535
November	30	21,596,151	2,886,800	66.272	719,872
December	31	17,365,645	2,321,300	53.290	560,182
Annual Total		**250,651,653**	**33,505,100**	**769.171**	
Monthly Average		**20,887,638**	**2,792,092**	**64.098**	

[1] Reclaimed water use is estimated from onsite totalizer meter readings, recorded manually.

[2] The following conversion factors were used in the above estimates:

1 cu. ft. =	7.481	gallons
1 acre-foot =	43,560	cu. ft.

Appendix I
Waste Management Methods

Non-RCRA Hazardous Waste Solid

In January, World Oil Environmental, Inc. transported 68 lbs. of Used Oily Rags and 150 lbs. of used toner cartridges to Pacific Resource Recovery.

In March, World Oil Environmental, Inc. transported 175 lbs. of Used Oily Rags to Pacific Resource Recovery.

In April, World Oil Environmental, Inc. transported 100 lbs. of used oily rags to US Ecology Vernon Inc.

In May, World Oil Environmental, Inc. Transported 150 lbs. of used oily rags to Pacific Resource Recovery.

In May, World Oil transported 75 lbs. of Rust with Trace Ammonia Salts to US Ecology Vernon, Inc.

In May, World Oil Environmental, Inc. transported 125 lbs. of used drained oil filters to Yes Management, Inc.

In October, World Oil Environmental, Inc. transported 175 lbs. of used oily rags to Pacific Resource Recovery.

In November, World Oil Environmental, Inc. transported 70 lbs. of absorbents with trace of ammonia to US Ecology Vernon, Inc.

In December, World Oil Environmental, Inc. transported 100 lbs. of Oily Debris to Pacific Resource Recovery.

Non-RCRA Hazardous Waste Liquid

In March, Mesa Environmental pumped out spill in sump and transported approximately 1,650 gallons of oil and water to World Oil Environmental, Inc.

Non-RCRA Waste/Used Oil - Recycling Activity

No Non-RCRA Waste/Used Oil recycling activity in 2021.

Non-Hazardous Waste Solid

In April, a 40-yard waste bin was used for the spring outage.

In May, a 25-yard bin was used for general plant clean up.

In December, a 40-yard waste bin was used for the fall outage.

Non-Hazardous Waste Liquid

In January, World Oil Environmental, Inc. transported 200 gallons of water with trace of oil to World Oil Recycling.

In April, Mesa Environmental transported approximately 1,850 gallons of cooling water sludge to Crosby and Overton.

In December, Mesa Environmental transported approximately 1,850 gallons of cooling water sludge to Crosby and Overton.

Hazardous Substances Solid

In November, World Oil Environmental, Inc. transported 25 gallons of UN3077 Tetrasodium and 25 gallons of UN3077 Sodium Dodecylbenzene Sulfonate to US Ecology Vernon, Inc.

Universal Waste

In January, World Oil Environmental, Inc. transported 30 HID Lamps, 60 NON-PCB Ballasts, 250 Fluorescent Lamps, 65 UN2800 Wet Non-spillable Batteries to Lighting Resources, Inc.

In January, World Oil Environmental, Inc. transported 600 lbs. of E-Waste to E-Recycling.

In January, World Oil Environmental Inc. transported 40 UN3028 Alkaline Batteries and 20 UN3028 Lithium Batteries to Lighting Resources, Inc.

In January, World Oil Environmental, Inc. transported 35 calibration cylinders to Stoody Industry & Welding.

In May, World Oil Environmental, Inc. transported 1 drum of Universal Waste – Aerosols to US Ecology Vernon Inc.

In December, World Oil Environmental, Inc. picked up and transported an air conditioner to E-Recycling.

In December, World Oil Environmental, Inc. picked up and transported 8 pounds of Alkaline Batteries to E-Recycling.

In December, World Oil Environmental, Inc. picked up and transported 5 UN3028 Alkaline Batteries, 200 UN2800 Acid Batteries, and 30 Fluorescent Lamps to Pacific Resources, Inc.

In December, World Oil Environmental, Inc. picked up transported 60 Fluorescent Lamps and 10 Incandescent Lamps to Lighting Resources, Inc.

Appendix J
Notices of Violation

CITY OF VERNON

DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
4305 S. SANTA FE AVENUE, VERNON, CA 90058
(323) 826-1448
www.cityofvernon.org/departments/health

OFFICIAL INSPECTION REPORT

INSPECTION DATE	5/18/2021	COMPLIANCE DATE	5/25/2021
BUSINESS NAME	MALBURG GENERATING STATION	RECORD ID	PR0006921
BUSINESS ADDRESS	4963 S SOTO ST., VERNON, CA 90058		007 - HMBP
OWNER NAME	MALBURG GENERATING STATION		
MAILING ADDRESS	4963 S SOTO ST., VERNON, CA 90058		
EMAIL ADDRESS	TBARNHART@COLORADOENERGY.COM		
ISSUED BY	MELISSA NANO, REHS	SIGNATURE	M. Nano

PROGRAM ELEMENT: HAZARDOUS MATERIALS BUSINESS PLANS (HMBP):

VIOLATION:

- Failure to complete and electronically submit a business plan for calendar year 2021 when storing/handling a hazardous material at or above reportable quantities. *HSC 6.95 25505, 25508(a)(1)*

Annual update to the California Environmental Reporting System (CERS) is due by the compliance date noted above. Submit information via the internet to https://cers.calepa.ca.gov/

Any business that does not comply with the HMBP requirements is civilly liable to the administering county or city in an amount not more than two thousand dollars ($2,000) for each day in which violation occurs. If the violation results in, or significantly contributes to, an emergency response, as well as the cost of cleaning up and disposing of the hazardous materials. *HSC 6.95 25515*

RECEIVED BY	SIGNATURE	TITLE
— EMAIL —	DNS.	