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Project Title:	METCALF Energy Center Compliance	
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Document Title:	ANNUAL COMPLIANCE REPORT- 2024	
Description:	ANNUAL COMPLIANCE REPORT- 2024	
Filer:	Anwar Ali	
Organization:	California Energy Commission	
Submitter Role:	Commission Staff	
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Metcalf Energy Center, LLC

1 Blanchard Road Coyote, CA 95013

August 20, 2025

Mr. Anwar Ali Compliance Project Manager Systems Assessment & Facility Sitting Division California Energy Commission 1516 Ninth Street, MS-2000 Sacramento, CA 95814

Re: Metcalf Energy Center, LLC.

Docket No. 99-AFC-3

Annual Compliance Report for 2024

Dear Mr. Ali:

In accordance with the Conditions of Certification for the Metcalf Energy Center, LLC, this report is intended to fulfill the requirements of the Annual Compliance Report for 2024 in the Conditions of Certification.

Enclosed are the documents required by the Conditions of Certification. The documents are provided as appendices, as noted in the Annual Compliance Summary:

- Annual Compliance Summary
- Conditions of Certification Matrix
- Operating Data Summary
- AQ-13: Gas Turbine and HRSG Firing with Natural Gas
- AQ-14: Heat Input Hourly Limit
- AQ-15: Heat Input daily Limit
- AQ-16: Heat Input Annual Limit
- AQ-17: HRSG Duct Burners Firing
- AQ-18: S-1 and S-2 SCR Operation and Maintenance
- AQ-19: S-3 and S-4 SCR Operation and Maintenance
- AQ-20: Gas Turbine Emissions
- AQ-21: Gas Turbine Mass Emissions
- AQ-22: Gas Turbine Start-up
- AQ-24: Gas Turbine and HRSG Total Combined Daily Emissions
- AQ-25: Gas Turbine and HRSG Total Combined 12-Month Emissions
- AQ-26: Annual Toxic Air Contaminants Emissions
- AQ-27: Operation and Maintenance of Continuous Monitors

Metcalf Energy Center, LLC

- AQ-28: Calculation and Recording of Daily Mass Emissions
- AQ-29: Projected Annual Emissions of Formaldehyde, Benzene, Specific PAHs
- AQ-36: Notification of Violations
- AQ-44: Compliance with 40 CFR Part 75
- AQ-56: Cold Start-up Hours
- BIO-2: Designated Biologist Summaries
- HAZ-1: Hazardous Materials List
- LAND-1: Trail Network Connection
- PUBLIC HEALTH-1: Cooling Tower Inspection
- SOIL & WATER-1: Water Use Summary
- TRANS-3: Permits or Licenses for Hazardous Material Transport
- VIS-1: Treatment of Project Structures
- VIS-10: Visible Plumes
- WASTE-3: Waste Management Comparison

If you have any additional questions, please feel free to contact Rosemary Silva, EHS Project Manager III, at 408-361-4954.

Sincerely,

-Signed by:

BFFA23815E88434... Christopher Schneider

Plant Manager

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/letcalf Energy Center, LLC.

Enclosures: Via Email

Appendix 1

California Energy Commission 2024 Annual Compliance Report Metcalf Energy Center – 99-AFC-3

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Metcalf Energy Center – 99-AFC-3 2024 Annual Compliance Report

Project Status

The Metcalf Energy Center, LLC (MEC) declared commercial operation (COD) on May 29, 2005. MEC is dispatched into the merchant market by Calpine Energy Services (CES) and participates in the Ancillary Services market with the California ISO.

The Annual Compliance Report has been prepared in accordance with the General Conditions of the Compliance Plan.

1. An updated compliance matrix which shows the status of all conditions of certification (fully satisfied and/or closed conditions do not need to be included in the matrix after they have been reported as closed).

The compliance matrix is included as an attachment. See Appendix 2.

2. A summary of the current project operating status and an explanation of any significant changes to facility operations during the year.

The facility is currently operating in a normal status. There have been no significant changes to facility operations during the reporting year. See Appendix 3

3. Documents required by specific conditions to be submitted along with the Annual Compliance Report. Each of these items must be identified in the transmittal letter and should be submitted as attachments to the Annual Compliance Report.

The documents required by specific conditions are included in this report as attachments and are identified in the transmittal letter.

- 4. A cumulative listing of all post-certification changes approved by the Energy Commission or cleared by the CPM.
 - Petition to maintain the facility's post-commissioning daily and annual emission limits amendment. Order number 05-0316—03, approved on March 16, 2005.
 - **PENDING**: Petition for Staff approval of a clarification to the term, "Gas Turbine Cold Start-Up Period", contained in the Air Quality section of the Final Decision for the Metcalf Energy Center. Waiting on issuance of new Title V permit and Permit to Operate from the Bay Area Air District.
- 5. An explanation for any submittal deadlines that were missed, accompanied by an estimate of when the information will be provided.

There are currently no outstanding submittals for the 2024 reporting period.

- 6. A listing of filings made to, or permits issued by, other governmental agencies during the year.
 - Annual compliance report submitted to CEC
 - Monthly Plume Abatement Status Reports
 - Annual Permit to Operate BAAQMD
 - Monthly Air Reports

- Annual Title V Compliance Certification Report submitted to BAAQMD and EPA.
- Annual Hazardous Material Permit City of San Jose
 - Annual Hazardous Materials Business Plan Update and Certification
- Annual Fire Safety Permit City of San Jose
- Annual Business License City of San Jose.
- Annual Storm Water Report to the State Water Resources Control Board
- Annual EIA-923S and EIA-860A to the U.S. Department of Energy
- Quarterly Electronic Data Reporting to the EPA (40 CFR 75)
- Semi-Annual NSPS Report to the EPA
- Semi-Annual Title V Monitoring Reports
- Semi-Annual Wastewater Self-Monitoring Report to the City of San Jose
- Monthly EIA-923M to the U.S. Department of Energy
- All submittals, except as noted above, required under our permits have been made on time to include, for the 2024 reporting year.
- 7. A projection of project compliance activities scheduled during the next year.

Currently there are no compliance activities scheduled.

8. A listing of the year's additions to the on-site compliance file.

No additions have been made to the on-site compliance files as required by the Decision.

9. An evaluation of the on-site contingency plan for unplanned facility closure, including any suggestions necessary for bringing the plan up to date.

An evaluation of the on-site contingency plan for unexpected facility closure was conducted with no modifications. A copy of the plan is attached in Appendix 4.

In addition, insurance coverage for the site remains current.

- 10. A listing of complaints, notices of violation, official warnings, and citations received during the year, a description of the resolution of any resolved complaints, and the status of any unresolved complaints.
 - January 17th, 2024 BAAQMD Complaint (reported to CEC 01/18/24) BAAQMD received a complaint from a member of the public because they saw plumes coming from Metcalf at around 12:00 03:00 am on January 17th, 2024. They were concerned about excess emissions. The facility provided the daily compliance reports for the period to our inspector and informed them we were operating at the time and that everything was within normal operating ranges and permit limits. NO FURTHER ACTION
 - February 5th, 2024 BAAQMD Complaint (reported to CEC 02/07/24) BAAQMD received a complaint from a member of the public because they saw plumes coming from Metcalf at around 23:30 pm on February 5th, 2024. They were concerned about excess emissions. The facility provided the daily compliance reports for the period to our inspector and informed them we were operating at the time and that everything was within normal operating ranges and permit limits. NO FURTHER ACTION

CONDITIONS OF CERTIFICATION SPECIFIC REQUIREMENTS

AQ-13 The Gas Turbines and the Heat Recovery Steam Generators shall be fired exclusively on natural gas.

No violation of this condition occurred for the 2024 reporting year

AQ-14 The combined heat input rate to each power train shall not exceed 2,124 mmBTU per hour, averaged over any rolling 3-hour period.

No violation of this condition occurred for the 2024 reporting year

AQ-15 The combined heat input rate to each power train shall not exceed 49,908 mmBTU per calendar day.

No violation of this condition occurred for the 2024 reporting year.

AQ-16 The combined cumulative heat input rate for the Gas Turbines and HRSGs shall not exceed 35,274,060 mmBTU per year.

No violation of this condition occurred for the 2024 reporting year.

AQ-17 The HRSG duct burners shall not be fired unless its associated gas turbine is in operation.

No violation of this condition occurred for the 2024 reporting year.

AQ-18 S-1 Gas Turbine and S-2 HRSG shall be abated by the properly operated and properly maintained A-1 Selective Catalytic Reduction (SCR) system whenever fuel is combusted at those sources and the A-1 catalyst bed has reached minimum operating temperature.

No violation of this condition occurred for the 2024 reporting year.

AQ-19 S-3 Gas Turbine and S-4 HRSG shall be abated by the properly operated and properly maintained A-2 Selective Catalytic Reduction (SCR) system whenever fuel is combusted at those sources and the A-2 catalyst bed has reached minimum operating temperature.

No violation of this condition occurred for the 2024 reporting year.

AQ-20 The Gas Turbines and HRSGs shall comply with emission requirements (a) through (h) under all operating scenarios, including duct burner firing mode and steam injection power augmentation mode. Requirements (a) through (h) do not apply during a gas turbine start-up or shutdown.

There were instances of non-compliance with this condition that occurred in the 2024 reporting year. Please refer to Appendix 14 for details.

AQ-21 The regulated air pollutant mass emission rates from each of the Gas Turbines during a start-up or a shutdown shall not exceed the limits.

No violation of this condition occurred for the 2024 reporting year.

AQ-22 The Gas Turbines shall not be in start-up mode simultaneously.

No violation of this condition occurred for the 2024 reporting year.

AQ-24 Total combined emissions from the Gas Turbines and HRSGs including emissions generated from the cooling tower and during Gas Turbine start-ups and shutdowns shall not exceed the following limits during any calendar day.

No violation of this condition occurred for the 2024 reporting year.

AQ-25 Combined emissions from the gas turbines and HRSGs, including emissions generated from cooling towers and during gas turbine startups, shutdowns and tuning shall not exceed permit limits during any consecutive twelve (12) month period.

No violation of this condition occurred for the 2024 reporting year.

AQ-26 Maximum projected annual toxic air contaminants emissions from the gas turbines shall not exceed permit limits.

No violation of this condition occurred for the 2024 reporting year.

AQ-27 Properly operated and maintained continuous monitors.

Continuous monitors are properly operated and maintained.

AQ-28 To demonstrate compliance with conditions 20(f), 20(g), 20(h), 21, 24(c') through 24(e), and 25('c) through 25(e) the owner/operator shall calculate and record on a daily basis the POC, PM10, and SO2 mass emissions from each power train.

No violation of this condition occurred for the 2024 reporting year.

AQ-29 Calculate and record on an annual basis the maximum projected annual emissions of formaldehyde, benzene, and specific PAHs.

No violation of this condition occurred for the 2024 reporting year.

AQ-36 Notification to the District and CPM of any violations of permit conditions.

No violations occurred during the 2024 reporting year.

AQ-44 Compliance with the continuous emission monitoring requirements of 40 CFR Part 75.

No violation of this condition occurred for the 2024 reporting year. See Appendix 5

AQ-56 Cold Start-up hours shall not exceed 30 hours per calendar year for each turbine.

No violation of this condition occurred for the 2024 reporting year.

BIO-2 The CPM approved Designated Biologist shall submit record summaries in the Annual Compliance Report:

Designated Biologist summary for the 2024-2025 reporting year provided in Appendix 6

HAZ-1 Do not use any hazardous materials in reportable quantities not listed in attachment 1 or in greater quantities or strengths than those identified unless approved in advance by Santa Clara County and the CPM.

A hazardous material inventory is included as an attachment and is identified in the table of contents. See Appendix 7.

LAND-1 At such time as a connection to a trail network can be made, install, and maintain the portion of planned trail that would cross the site.

No trail updates have been made at this time. MEC is awaiting direction from the City of San Jose for trail construction.

PUBLIC HEALTH-1 Perform a visual inspection of the cooling tower drift eliminators once per calendar year.

The inspection sheet is included as an attachment and is identified in the table of contents. See Appendix 8.

SOIL & WATER-1 Potable water may be used for cooling purposes only in the event that SBWR recycled water service is interrupted.

A record of water consumption has been included and identified in the table of contents. See Appendix 9.

TRANS-3 Ensure that all federal and state regulations for the transport of hazardous materials are observed during both construction and operation of the facility.

No permits or licenses have been acquired concerning the transport of hazardous substances. A list of the hazardous materials deliveries received in 2024 is in Appendix 10.

VIS-1 Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.

The plant's structures, buildings, and tanks have all been treated in accordance with this condition of certification. No treatment maintenance has been necessary. A copy of the inspection is in Appendix 11.

VIS-10 The power plant shall be designed and operated to minimize visible plume.

The total cooling tower plume hours for 2024 were 2 hours and 56 minutes, as noted in the December 2024 Plume Summary Log. A copy of the submitted log is in Appendix 12.

WASTE-3 Document the actual waste management methods used during the year compared to planned management methods.

No violation of this condition occurred. A waste management sheet is included as an attachment and is identified in the table of contents. See Appendix 13.

Appendix 2

METCALF ENERGY CENTER - COMPLIANCE MATRIX							
S	TART OF COMERCIAL OPERATION	5/29/2005					
THROUGH YEAR END OF 2024		12/31/2024					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Status/ Comments	
AQ-13	GTs (S-1, S-3) and HRSG (S-2, S-4) shall be fired exclusively on natural gas. (BACT for SO2 and PM10)	As part of the semiannual Air Quality Reports, indicate the date, time, and duration of any violation of this condition.	Semiannual Air Quality Reports	Ongoing	Monthly and Semi-Annually	Ongoing	
AQ-14	Combined heat input rate of each power train (S-1 & S-2, S-3 & S-4) shall not exceed 2,124 MMBtu/hr (3-hour rolling average) (PSD for NOx)	As part of the Air Quality monthly Reports, include information on the date and time when the hourly fuel consumption exceed this hourly limit.	Monthly Air Quality Reports	Ongoing	Monthly	Ongoing	
AQ-15	Combined heat input rate of each power train (S-1 & S-2 and S-3 & S-4) shall not exceed 49,908 MMBtu/day (PSD for PM10)	As part of the Air Quality monthly Reports, include information on the date and time when the hourly fuel consumption exceed this daily limit.	Monthly Air Quality Reports	Ongoing	Monthly	Ongoing	
AQ-16	Combined cumulative heat input rate of GTs (S-1, S-3) and HRSGs(S-2, S-4) shall not exceed 35,274,060 MMBtu/yr. (Offsets)	As part of the Air Quality annual Reports, include information on the date and time when the annual cumulative fuel consumption exceed this annual limit	Monthly Air Quality Reports	Ongoing	Monthly	Ongoing	
AQ-17	HRSGs (S-2, S-4) duct burners shall not be fired unless associated GTs (S-1, S-3) are in operation. (BACT for NOx)	As part of the Air Quality Reports, include information on the date, time, and duration of any violation of this permit condition.	Air Quality Reports	Ongoing	Ongoing	Ongoing	
AQ-18	GT/HRSG (S-1/S-2) shall be abated by the A-1 SCR system whenever fuel is combusted in these units and the A-1 catalyst bed has reached min. operating temperature.	As part of the Air Quality Reports, provide information on any major problem in the operation of the Oxidizing Catalyst and Selective Catalytic Reduction Systems for the Gas Turbines and HRSG's.	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-19	GT/HRSG (S-3/S-4) shall be abated by the A-2 SCR system whenever fuel is combusted in these units and the A-2 catalyst bed has reached min. operating temperature.	As part of the Air Quality Reports, provide info. on any major problem in the operation of the Oxidizing Catalyst and Selective Catalytic Reduction Systems for the Gas Turbines and HRSGs.	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-20(a)	Emission requirements: Emission Point P-1 NOx = 19.2 lbs/hr [0.00904 lbs/MMBtu (HHV) of nat. gas fired]; Emission Point P-2 NOx = 19.2 lbs/hr [0.00904 lbs/MMBtu (HHV) of nat. gas fired].	As part of the Semi-Annual Air Quality Reports, indicate the date, time, and duration of any violation. Include quantitative info. on the severity of the violation.	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-20(b)	NOx Emission concentration = 2.5 ppmvd (corrected to 15% O2), 1-hr average {Emission Point P-1, P-2} (BACT for NOx).	Same as above	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-20(c)	CO mass emission = 28.07 lbs/hr (at any 3-hour rolling avg.) (Emission Point P-1, P-2).	Same as above	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	

METCALF ENERGY CENTER - COMPLIANCE MATRIX							
START OF COMERCIAL OPERATION		5/29/2005					
THROUGH YEAR END OF 2024		12/31/2024					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Status/ Comments	
AQ-20(d)	When the heat input to a CT exceeds 1700 MMBTU/hr (HHV), the CO emission concentration shall not exceed 6.0 ppmvd on dry basis and the CO mass emission rate shall not exceed 0.0132 lb/MMBTU at any 3-hr rolling average.	Same as above	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-20(e)	Ammonia (NH3) emission concentration shall not exceed 5 ppmvd on dry basis, at any 3-hour rolling avg. Ammonia injection rate to A-1, A-2 to be verified through continuous recording of rate.	Same as above	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-20(f)	Precursor organic compounds (POC) mass emissions (as CH4) shall not exceed 2.7 lbs/hr or 0.00126 lbs/MMBTU of natural gas fired. (Emission points P-1, P-2).	Same as above	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-20(g)	Sulfur dioxide (SO 2) mass emissions at P-1 ,P-2 each shall not exceed 1.28 pounds per hour or 0 .0006 lb /MM BTU of natural gas fired. (BACT)	Same as above	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-20(h)	PM10 mass emission s at P-1 ,P-2 each shall not exceed 9 pounds per hour or 0.00452 lb PM10/MM BTU. Particulate matter (PM10) mass emissions at P-1 ,P-2 each shall not exceed 12 pounds per hour or 0.00565 lb PM10/MM BTU, when HRSG duct burners are in operation.	Same as above	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-20(i)	Testing to confirm the PM10 emissions levels shall occur at least three (3) times per year during each of the first two (2) years of operation. Each year, at least one (1) monitoring test shall occur during winter months.	Same as above	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-21	GT (S-1, S-3) Start-up and Shutdown emission rates.	Same as above	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-22	Not more than one GT (S-1, S-2) shall be in start-up mode at any one time.	In the monthly compliance report the owner/operator shall indicate any violations of this condition.	Monthly Air Quality Reports	Ongoing	Ongoing	Ongoing	
AQ-24	Total combined emissions in lbs/day, from GTs and HRSGs (S-1, S-2, S-3, S-4), including start-up and shutdown.	As part of the Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual	Ongoing	
AQ-25	Cumulative combined emissions in tons/any consecutive 12-month period, from GTs and HRSGs shall not exceed Nox = 123.4 (offsets), CO=588, POC=28 (offsets), PM10=91.3 (offsets), SO2=10.6 (cumulative increase).	As part of the Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Air Quality Reports	Ongoing	Monthly/Annual	Ongoing	

	METCALF ENERGY CENTER - COMPLIANCE MATRIX						
S	TART OF COMERCIAL OPERATION	5/29/2005					
THROUGH YEAR END OF 2024		12/31/2024					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Status/ Comments	
AQ-26	Maximum projected combined annual toxic air contaminant emissions from GTs and HRSGs (S-1, S-2, S-3, S-4). (a) formaldehyde = 3,796 lbs/yr (b) Benzene = 480 lbs/yr (c) PAHs=22.8 lbs/yr	As part of the annual Air Quality Reports, indicate the date, duration, and severity of any violation including quantitative information on the severity of the violation.	Annual Air Quality Reports	Ongoing	Monthly/Annual	Ongoing	
AQ-26	Perform health risk assessment using emission rates per BAAQMD approved procedures and submit risk analysis to District and CPM.	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation or submit risk analysis to District and CPM.	Within 60 days of source test date	Ongoing	Monthly/Annual	Ongoing	
AQ-27 (a-d)	Demonstrate compliance with conditions 14-17, 20(a-d), 21, 22, 24(a), 24(b), 25(a), 25(b) by using continuous monitors during all operating hours for the following parameters.	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports	Ongoing	Monthly/Annual	Ongoing	
AQ-27(e-f)	Use parameters in condition 27(a-d) and District approved methods to calculate the following. (e) Heat input rate for S-1 & S-2 combined, and S-3 & S-4 combined (f) Corrected NOx and CO concentrations and mass emissions at each exhaust point (P-1, P-2)	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports	Ongoing	Monthly/Annual	Ongoing	
AQ-27(g-l)	For each source, source grouping, or exhaust point record parameters at least once every 15 minutes and calculate and record for the following. Refer to AQ-27 for further details.	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports	Ongoing	Monthly/Annual	Ongoing	
AQ-28(a-b)	Demonstrate compliance with conditions 20, 21, 24, 25 by calculating and recording on a daily basis POC, PM10, and SO2 mass emissions fine PM10 and SO2 from each power train.	As part of the monthly Air Quality Reports, the owner/operator shall indicate the date of any violation including quantitative information on the severity of the violation.	Monthly Air Quality Reports	Ongoing	Monthly/Annual	Ongoing	
AQ-29	Calculate and record on annual basis the max. projected annual emissions of formaldehyde, benzene, Specified Poly-Aromatic Hydrocarbons (PAH's).	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports	Ongoing	Annual	Ongoing	
AQ-35	Maintain records and reports on site for a minimum of 5 years.	During site inspection, make all records and reports available to the District, California Air Resources Board, and CEC staffs.	AQ Inspection per AQ-35	Ongoing	Ongoing	Ongoing	
AQ-36	Notify District and CPM of any violations of these permit conditions.	Submittal of these notifications as required by this condition is the verification of these permit conditions.	Violation of Permit Conditions	Ongoing	Ongoing	Ongoing	
AQ-44	MEC shall comply with the continuous emission monitoring requirements of 40 CFR Part 75			Ongoing	Ongoing	Ongoing	

METCALF ENERGY CENTER - COMPLIANCE MATRIX							
S	TART OF COMERCIAL OPERATION	5/29/2005					
THROUGH YEAR END OF 2024		12/31/2024					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Status/ Comments	
AQ-45	Take monthly samples of natural gas combusted at MEC and analyze these samples for sulfur content using District-approved lab methods.	Maintain on site the records of all the guarantees received from its natural gas suppliers indicating that the fuel delivered to MEC complies with the 40 CFR Part 60, Subpart GG.	On-site Compliance Inspections	Ongoing	Monthly	Ongoing	
AQ-47a	Perform visual inspection of cooling tower drift eliminators once per calendar year and repair or replace any drift eliminators which are broken or missing.	As part of the monthly Air Quality Reports, indicate the date of any violation of this Condition.	Air Quality Reports	Ongoing	Annual	Ongoing	
AQ-53	The heat input to the fire pump diesel engine shall not exceed 211 MM BTU totaled over any consecutive twelve month period.	As part of the monthly Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Air Quality Reports	Ongoing	Monthly	Ongoing	
AQ-54	The total hours of operation of the emergency generator shall not exceed 200 hours per calendar year, plus an additional 100 hours per calendar year for the purposes of maintenance and testing.	As part of the monthly Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Air Quality Reports	Ongoing	Annual	Ongoing	
AQ-56	Cold Start-up hours shall not exceed 30 hours per calendar year for each Gas Turbine.	Provide dates and durations of any violation of this Condition to the CPM.	Air Quality Reports	Ongoing	Annual	Ongoing	
AQ-57	Record start time, end time, and duration of Gas Turbine Cold Startup and Combustor Tuning Periods.	Make all records available to Agencies during inspection.	Ongoing	Ongoing	Ongoing	Ongoing	
BIO-2	The CPM approved Designated Biologist shall perform the following during project construction and operation: see BIO-2 for detailed tasks.	Submit record summaries in the Annual Compliance Report.	Annual Compliance Report	Annual	Annual	Ongoing	
BIO-12	Incorporate into closure plan measures that address the local biological resources and incorporate into the BRMIMP.	Address all biological resource-related issues associated with facility closure.	12 months prior to facility closure	Ongoing	12 months Prior to Closure	Ongoing	
HAZ-1	Do not use any hazardous material in reportable quantities, not listed in Attachment 1 or in greater quantities or strengths than those identified unless approved in advance by Santa Clara County and the CPM.	Provide to the CPM and Santa Clara County, in the Annual Compliance Report, a list of hazardous materials contained at the facility in reportable quantities.	Annual Compliance Report	Ongoing	Annual	Ongoing	
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	In the Annual Compliance Reports provide updates on trail developments in the area around the site.	Annual Compliance Report	Ongoing	Annual	Ongoing	
NOISE-2	Throughout the construction and operation, document, investigate, evaluate and attempt to resolve all project related noise complaints.	File a copy of the Noise Complaint Resolution Form with City of San Jose and with the CPM documenting the resolution of the complaint.	30 days after receiving a noise complaint	Ongoing	Within 30 Days	Ongoing	
PAL-7	Include in the facility closure plan a description regarding facility closure activity's potential to impact paleontological resources.	Include a description of closure activities in the facility closure plan.	12 months prior to facility closure	Ongoing	12 months Prior to Closure	Ongoing	

METCALF ENERGY CENTER - COMPLIANCE MATRIX							
S	TART OF COMERCIAL OPERATION	5/29/2005					
THROUGH YEAR END OF 2024		12/31/2024					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Status/ Comments	
Public Health-1	Perform a visual inspection of the cooling tower drift eliminators once per calendar year. Prior to initial operation of the project, have the cooling tower vendor's field representative inspect the cooling tower drift eliminator and certify that the installation was performed in a satisfactory manner.	The project owner shall include the results of the annual inspection of the cooling tower drift eliminators and a description of any repairs performed in the next required compliance report.	Annual Compliance Report	Ongoing	Annual	Ongoing	
SOIL & WATER-1	Potable water may be used for cooling purposes only in the event that SBWR recycled water service is interrupted.	Provide a record of water consumption for the MEC.	Annual Compliance Report	Ongoing	Annual	Ongoing	
TRANS-3	Ensure that all federal and state regulations for the transport of hazardous materials are observed.	Copies of all permits and licenses acquired concerning the transport of hazardous substances.	Annual Compliance Report	Ongoing	Annual	Ongoing	
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	The project owner shall provide a status report regarding treatment maintenance in the Annual Compliance Report.	Annual Compliance Report	Ongoing	Annual	Ongoing	
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	The project owner shall submit to the City of San Jose and the County of Santa Clara Parks and Recreation Department for review and comment a specific plan.	Start of construction of the trail between Blanchard Road and railroad tracks	Ongoing	Ongoing	Ongoing	
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	Submit to the CPM for review and approval a specific plan describing its landscape plan.	Start of construction of the trail between Blanchard Road and railroad tracks	Ongoing	Ongoing	Ongoing	
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	Submit any required revisions.	Within 30 days of notification by the CPM.	Ongoing	Within 30 days	Ongoing	
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	Notify the CPM, City of San Jose and County of Santa Clara Parks and Recreation Department that the planting installation is ready for inspection.	7 days after completion of planting installation	Ongoing	Within 7 days	Ongoing	
WASTE-2	Upon becoming aware of any impending waste management-related enforcement action, notify the CPM of any such enforcement action.	Notify the CPM in writing within 10 days of becoming aware of an impending enforcement action.	Within 10 days of becoming aware of an impending enforcement action	Ongoing	Within 10 Days	Ongoing	
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	In the Annual Compliance Reports, document the actual waste management methods used during the year compared to planned management methods.	Annual Compliance Report	8/1/06	Annual	Ongoing	
Compliance matrix	A compliance matrix shall be submitted by along with each annual compliance report.	Submit compliance matrix to CPM	Annual Compliance Report	Ongoing	Annual	Ongoing	

Appendix 3

Operating Data Summary January 2024 - December 2024

Metcalf CT1				Metcalf CT2	<u>2</u>		Metcalf ST1	<u>. </u>
Date	Total Net MWh	Total Primary Fuel Quantity Burned (MMcf GG)	Date	Total Net MWh	Total Primary Fuel Quantity Burned (MMcf GG)	Date	Total Net MWh	Total Secondary Fuel Quantity Burned (MMcf GG)
January	120,908	1,356.1	January	122,067	1,393.6	January	150,379	124.74
February	98,166	1,088.0	February	110,822	1,252.1	February	126,087	72.94
March	56,702	636.2	March	110,100	1,289.2	March	102,964	68.81
April	-	-	April	-	-	April	-	-
May	344	9.9	May	-	-	May	-	-
June	58,648	672.1	June	53,488	619.1	June	71,452	59.05
July	88,872	1,003.4	July	109,860	1,264.8	July	131,377	132.64
August	93,631	1,041.6	August	94,336	1,070.7	August	120,755	99.25
September	64,123	727.2	September	52,908	605.6	September	74,745	66.25
October	95,850	1,001.2	October	71,021	738.0	October	103,635	67.40
November	66,841	739.1	November	62,518	707.4	November	72,931	6.72
December	92,517	1,032.3	December	86,747	981.7	December	105,898	51.72

Appendix 4



Date	Description of Revision	Revision No.	Revised By:
6/01/2005	Planned Developed	1	Dana Petrin
8/08/2008	Plan reviewed and contacted information updated.	2	Rosemary Silva
8/24/2009	Annual Review – Updated the notification list, updated the chemical inventory.	3	Rosemary Silva
8/06/2010	Annual Review – Updated the chemical list and CEC contact	4	Rosemary Silva
8/29/2011	Annual Review – Update contact list and chemical list	5	Rosemary Silva
8/24/2012	Annual Review - Updated the contact information for the regulatory agencies. Also updated the chemical list included in the plan. The updated plan was submitted as part of the annual compliance report for reporting year 2011.	6	Rosemary Silva
8/19/2013	Annual Review – Updated contact information and chemical list. The updated plan was submitted as part of the annual compliance report for reporting year 2012.	7	Rosemary Silva
11/07/2014	Annual Review – Updated the Wastewater Inspector information	8	Rosemary Silva
12/30/2015	Annual Review – No Changes	-	Rosemary Silva
8/08/2016	Annual Review – Updated contact information for CEC and HazMat Inspector	9	Rosemary Silva
8/22/2017	Annual Review – Updated contact information for PGE	10	Rosemary Silva
8/10/2018	Annual Review – Updated contact information for City of San Jose Wastewater Inspector	11	Rosemary Silva
8/09/2019	Annual Review – No changes	-	Rosemary Silva
8/06/2020	Annual Review – No changes	-	Rosemary Silva
8/05/2021	Annual Review – Update to the contact information for Santa Clara Environmental Health Department	12	Rosemary Silva
7/27/2022	Annual Review – Updated the San Jose Fire Department Inspector contact information	13	Rosemary Silva
8/10/2023	Annual Review – No changes	-	Rosemary Silva
1/19/2024	Updated the PG&E Customer Rep name and email	14	Rosemary Silva
3/04/2024	Updated the PG&E Customer Rep name and email	15	Rosemary Silva
8/19/2024	Annual Review – updated the plan to include minor additions is to comply with the requirements of CPUC GO-167	16	Rosemary Silva
8/20/2025	Annual Review – No changes	-	Rosemary Silva



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1.0 PURPOSE

This plan was developed to provide an on-site contingency plan to ensure that the unexpected closure occurs in such a way that public health and safety and the environment are protected from adverse impacts. The plan covers written procedures concerning site security, hazardous materials and waste removal, and insurance and warranty coverage.

2.0 SCOPE

The plan was prepared in accordance with the California Energy Commission's (CEC) Decision, Docket Number 99-AFC-03 and covers the following facility:

Metcalf Energy Center, LLC (MEC) 1 Blanchard Road San Jose, CA 95013

Telephone Number: (408) 361-4900

Type and Nature of Business: SIC 4911 Electric Power Production

3.0 RESPONSIBILITIES

3.1 PLANT MANAGER

The Plant Manager has the overall responsibility for ensuring all provisions of this plan are administered and adhered to.

3.2 OPERATIONS MANAGER AND MAINTENANCE MANAGER

The Operations Manager and Maintenance Manager are responsible for overseeing the program, and notification to the CEC & CPUC.

3.3 EHS SPECIALIST

The EHS Specialist is responsible for assisting with any required agency notifications.

4.0 GENERAL

The unit or facility will remain in a ready for service condition until it has been affirmed that it is unneeded by all regulating bodies.

4.1 NOTIFICATION PROCEDURES

In the event of an unexpected temporary or permanent closure, the Plant Manager or designee shall notify the CEC Compliance Project Manager (CPM) and other responsible agencies within 24 hours and take all necessary steps to implement this Plan. Notification shall be made by either telephone or e-mail (see **Table 1**). The Operations Manager, Maintenance Manager, or EHS Specialist shall keep the CPM informed of the circumstances and expected duration of the closure.

90 days prior to the long-term status change of a unit or the facility the California Public Utilities Commission will be notified in writing with a description of the planned change.



The California Public Utilities Commission will be notified in writing 90 days prior to a change in facility ownership.

If it is determined that a temporary closure is likely to be permanent, or for a duration of more than twelve months, a closure plan consistent with CEC requirements for a planned closure shall be developed and submitted to the CPM within 90 days or the CPM's determination (or another period mutually agreed to by the owner and the CPM).

90 days prior to the long-term status change of a unit or the facility plans and/or procedures for storage and restart of the unit or facility will be provided to the California Public Utilities Commission.

TABLE 1 - AGENCIES TO BE NOTIFIED

California En	California Energy Commission				
Anwar Ali	Tel: (916) 654-5020				
Compliance Project Manager	Fax: (916) 651-8868				
California Energy Commission	Email: anwar.ali@energy.ca.gov				
1516 9th St.					
Sacramento, CA 95814-5504					
San Jose Fire Department (Hazardous Materials)					
Farheen Sultana	Email: farheen.sultana@sanjoseca.gov				
San Jose Fire Department					
200 E. Santa Clara St., 2nd Fl. Tower					
San Jose, CA 95113					
Santa Clara Environn	l nental Health Department				
Robin Ward	Tel: (408) 918-1945				
Sr. Hazardous Materials Specialist	Email: robin.ward@cep.sccgov.org				
1555 Berger Dr.	Email: Iobin:wara(@oop.soogov.org				
San Jose, CA 95112					
·					
Regional Water (Quality Control Board				
San Francisco Bay Regional Water Quality	Tel: (510) 622-2300				
Control Board-Region 2	Fax: (510) 622-2460				
1515 Clay St. Suite 1400	Email: info2@waterboards.ca.gov				
Oakland, CA 94612					
South Bay V	Water Recycling				
Pedro Hernandez	Tel: (408) 794-6804				
South Bay Water Recycling	Email: pedro.hernandez@sanjoseca.gov				
Environmental Services Dept.					
City of San Jose					
200 East Santa Clara Street, 4th Floor					
San Jose, CA 95131					



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San Jose/Santa Clara Water Pollution Control Plant				
Kimberly DeVillier	Tel: (408) 793-5359			
Environmental Inspector	Fax: (408) 271-1930			
City of San Jose	Email: kimberly.devillier@sanjoseca.gov			
200 E. Santa Clara Street, 7 th Floor				
San Jose, CA 95113				
	y Management District			
Xuna Cai	Tel: (650) 420-3749			
Senior Air Quality Engineer	Email: xcai@baaqmd.gov			
Engineering Division				
Bay Area Air Quality Management District				
375 Beale Street, Suite 600				
San Francisco, Ca 94105				
	s and Electric			
Chad Stout	Tel: (831) 784-3333			
Customer Service Representative	Email: <u>C5SR@pge.com</u>			
PG&E				
2230 Lake Washington Blvd				
West Sacramento, CA 95691				
Ca	al-ISO			
CAL-ISO Outage Coordination	Tel: (916) 351-2241			
P.O. Box 639014				
Folsom, CA 95763-9014				
US Environment Prote	ection Agency – Region IX			
US EPA Region IX	Tel: (415) 972-3990			
75 Hawthorne Street	Fax: (415) 947-3579			
San Francisco, CA 94105-3901	Email: reo9@epa.gov			
California Public	Utilities Commission			
California Public Utilities Commission	Email: GO167@cpuc.ca.gov			
505 Van Ness Avenue				
San Francisco, California 94102				

4.2 PLANT SHUT DOWN PROCEDURE

In the event of a plant closure, MEC, personnel will shut down all operating equipment that is not necessary to respond to an emergency, in accordance with plant operating procedures. In the event of an emergency shutdown (e.g., fire, earthquake, sabotage, etc.), MEC personnel should consult the MEC Emergency Response Plan, ERP. The purpose of the ERP is to provide emergency response guidelines so that the MEC shift, and management personnel can adequately evaluate the situation and respond in the interests of protecting personnel, company resources, and the environment.



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The ERP provides guidelines for emergencies, including accidental release of toxic gases, chemical spills, fires, explosions, bomb threats, civil disobedience, and personnel injuries. There are several situations that may require emergency response by site personnel. The response required for each situation may vary, and each requires a separate course of action. Personnel should reference the facility ERP for proper response.

4.3 SITE SECURITY AND EMERGENCY RESPONSE

The plant perimeter is surrounded by a chain link fence. The main gate is located on Blanchard Road. Remote cameras monitor the perimeter entry into the Plant 24 hours per day, 365 days per year by Control Room Personnel. The duties of the Plant Operators include checking plant security measures during the shift.

In the event of an unexpected closure, MEC will ensure that all fencing is intact and a manned guard or private security services it used to maintain site security, if necessary.

In the event of an emergency, the San Jose Fire Department (SJFD) will have access through the main gate via a Knox Box. Additionally, the SJFD has been supplied with a Hazardous Materials Business Plan, Risk Management Plan, and Fire Protection and Prevention Plan. The information contained in these plans will enable SJFD to respond to any emergency if the plant personnel have evacuated the premises.

4.4 HAZARDOUS MATERIAL AND WASTE REMOVAL

Handling and disposal of all hazardous materials and wastes shall be in accordance with all applicable laws, ordinances, regulations, and standards. Figure 1 identifies all hazardous materials that are located at MEC in reportable quantities. In the event of an unexpected temporary closure, not all hazardous materials will require removal. If such an event occurs, MEC will conduct visual inspections of all hazardous material storage vessels daily to assess container condition. This process can be done remotely via site cameras if necessary.

MEC has implemented a Hazardous Materials Business Plan, HMBP, to assist with the identification and handling of all hazardous materials. In addition to HMBP other plans have been developed to assist plant personnel and emergency responders with handling of hazardous materials located at MEC.

Refer to Figure 1 on the following Page.

FIGURE 1 - HAZARDOUS MATERIALS IN REPORTABLE QUANTITIESLOCATED AT METCALF

CHEMICAL NAME	CHEMICAL LOCATION		
*MISCELLANEOUS FLAMMABLE LIQUID, CLASS IB	MAINTENANCE SHOP		
*MISCELLANEOUS FLAMMABLE LIQUID, CLASS IB	Steam Turbine Flammable Locker		
*MISCELLANEOUS FLAMMABLE LIQUID, CLASS IB	PROPANE STORAGE		
76 Triton 5005 GEO SAE 30	Lube Oil Storage		
76 TURBINE OIL 68	Lube Oil Storage		
76 TURBINE OIL 68	Combustion Turbine Lube Oil		
ACETYLENE	MAINTENANCE SHOP		
AMMONIA	Aqueous Ammonia Storage Area		
ARGON / CARBON DIOXIDE	MAINTENANCE SHOP		
ARGON, COMPRESSED	MAINTENANCE SHOP		
ARGON, COMPRESSED	CYLINDER GAS STORAGE		
ARGON/CARBON MONOXIDE	CYLINDER GAS STORAGE		
CALIBRATION GAS (NITROGEN, CARBON MONOXIDE)	CYLINDER GAS STORAGE		
CARBON DIOXIDE	MAINTENANCE SHOP		
CARBON DIOXIDE	VARIOUS		
CHEMTREAT BL-152	Boiler Water Chemical Treatment Area		
CHEMTREAT BL-152	WATER TREATMENT BUILDING		
CHEMTREAT BL1794	Boiler Water Chemical Treatment Area		
CHEMTREAT BL-8301	WATER TREATMENT BUILDING		
CHEMTREAT BL-8401	WATER TREATMENT BUILDING		
CHEMTREAT BL-8401	Boiler Water Chemical Treatment Area		
CHEMTREAT CL2250	WATER TREATMENT BUILDING		
CHEMTREAT CL243	Cooling Tower Chemical Treatment Area		
CHEMTREAT CL-2875	WATER TREATMENT BUILDING		
CHEMTREAT CL4500	Cooling Tower Chemical Treatment Area		
CHEMTREAT P873L	WATER TREATMENT BUILDING		
CHEMTREAT RL1245	WATER TREATMENT BUILDING		
CHEMTREAT RL9007	WATER TREATMENT BUILDING		
CHEMTREAT-BL-1794	WATER TREATMENT BUILDING		
CONNTECT 6000	WATER TREATMENT BUILDING		
CONOCO PHILLIPS MEGA FLOW 32	BOILER FEED PUMPS		
CONOCO PHILLIPS TURBINE OIL 32	STEAM TURBINE PACKAGE		
CT WATER WASH	CT WASH WATER SUMP		
DEBRIS/RAGS CONTAMINATED WITH PETROLEUM/OIL	Hazardous Material Storage Area		
DIESEL	Fire Pump House		
DIESEL EXHAUST FLUID	Steam Turbine Under Deck		
DIESEL FUEL	Steam Turbine Flammable Locker		



CHEMICAL NAME	CHEMICAL LOCATION
DOLOMITIC HYDRATED LIME	Steam Turbine Under Deck
FLOODED LEAD-CALCIUM BATTERY	SWITCH YARD
FYRQUEL EHC PLUS	Lube Oil Storage
FYRQUEL EHC PLUS	Steam Turbine Under Deck
GASOLINE	Steam Turbine Flammable Locker
HELIUM	CYLINDER GAS STORAGE
HYDRO HEAT	MAINTENANCE SHOP
HYTRANS 61	GSU Transformers
HYTRANS 61	AUXILLARY TRANSFORMERS
HYTRANS 61	STATION SERVICE TRANSFORMERS
LEAD-ACID BATTERY	BALANCE OF PLANT
LEAD-ACID BATTERY	COMBUSTION TURBINE #1
LEAD-ACID BATTERY	COMBUSTION TURBINE #2
LEAD-ACID BATTERY	DIESEL FIRE PUMP HOUSE
LUBRICATING OIL	FUEL GAS COMPRESSORS
Megaflow AW HVI Hydraulic Oil	Lube Oil Storage
MISCELLANEOUS LUBE OIL	Lube Oil Storage
MOBIL DTE 26	Lube Oil Storage
MOBIL DTE 26	CT CONTROL OIL TANK
MOBIL DTE 26	Steam Turbine Under Deck
MULTIPURPOSE R+O OIL 220	Lube Oil Storage
NITROGEN	CYLINDER GAS STORAGE
NITROGEN	UNIT 2 NITROGEN STORAGE
NITROGEN	UNIT 1 NITROGEN STORAGE
NITROGEN / NITRIC OXIDE CALIBRATION GAS	CYLINDER GAS STORAGE
NITROGEN / NITRIC OXIDE CALIBRATION GAS	UNIT 1 CEMS GASES
NITROGEN / NITRIC OXIDE CALIBRATION GAS	UNIT 2 CEMS GASES
NITROGEN / OXYGEN CALIBRATION GAS	CYLINDER GAS STORAGE
NITROGEN / OXYGEN CALIBRATION GAS	UNIT 1 CEMS GASES
NITROGEN / OXYGEN CALIBRATION GAS	UNIT 2 CEMS GASES
NITROGEN, COMPRESSED	AUXILLARY TRANSFORMERS
NITROGEN/CARBON MONOXIDE CALIBRATION GAS	UNIT 1 CEMS GASES
NITROGEN/CARBON MONOXIDE CALIBRATION GAS	UNIT 2 CEMS GASES
OXYGEN	MAINTENANCE SHOP
Oxygen	CYLINDER GAS STORAGE
Phillips Turbine Oil 100	Lube Oil Storage
PROPANE	PROPANE STORAGE
Release Number 1 VOC	Lube Oil Storage
Reolube HYD 46	Lube Oil Storage



CHEMICAL NAME	CHEMICAL LOCATION
Shell Morlina S3 BA 220	Steam Turbine Under Deck
Shell Morlina S3 BA 220	Lube Oil Storage
SHELL TELLUS OIL	Lube Oil Storage
Shell Turbo Oil DR 46	Lube Oil Storage
Shell Turbo Oil DR 46	STEAM TURBINE CONTROL OIL TANK
SHELL TURBO OIL T 32	Steam Turbine Under Deck
Sodium Carbonate, Anhydrous	Connex Near Storm Water Pond
SODIUM HYPOCHLORITE 12.5%	Cooling Tower Chemical Treatment Area
SODIUM HYPOCHLORITE 12.5%	WATER TREATMENT BUILDING
SULFUR HEXAFLUORIDE	SWITCH YARD
SULFURIC ACID 93%	Cooling Tower Chemical Treatment Area
TURBO T OIL 32	Lube Oil Storage
USED OIL	Hazardous Material Storage Area
USED OIL	OIL/WATER SEPARATOR
USED OIL	Steam Turbine Under Deck
USED OIL FILTERS	Hazardous Material Storage Area
Vaprotec Light	Lube Oil Storage

4.4 HAZARDOUS MATERIAL AND WASTE REMOVAL, continued

Whenever practical, hazardous materials will be returned to the vendor or transferred to another Calpine site that has the need for the material(s). The following transporters or other qualified transporters will be used if it is deemed necessary to remove any hazardous material(s).

TRANSPORTER	TELEPHONE NUMBER		
Bayview Environmental	510-562-6181		
Hill Brothers Chemical Company	408-421-0043		

If the unexpected temporary closure also results in a release of hazardous materials or waste, plant personnel will consult the Emergency Response Plan, HMBP, and/or Risk Management Plan. These plans address accidental release prevention and emergency policies, a hazardous materials inventory, employee training, and location of safety equipment, main utility shutoffs, notification methods, and accident investigation procedures.

In addition, the Storm Water Pollution Prevention Plan, SWPP, and the Spill Prevention Control and Countermeasure Plan, SPCC, describe the necessary actions in the event of a spill that might threaten off site locations. Both structural and non-structural Best Management Practices (BMPs) are utilized at the site to reduce pollutants in storm water discharge. Structural BMPs include such measures as valves, berms, curbs, and containment structures that are used to hold or divert storm water. Non-structural BMPs include such measures as regular inspections, good housekeeping, employee training, and special procedures for storing/loading hazardous materials and wastes. Plant personnel shall consult all these plans prior to proceeding with any hazardous material or waste removal.



5.0 INSURANCE AND WARRANTY COVERAGE

MEC is insured under an "All-Risk" Builder's Risk policy for property damage and business interruption. The policy is provided by several insurance companies led by Underwriters at Lloyds of London. Liability insurance is provided by Liberty Mutual.

6.0 UNEXPECTED TEMPORARY CLOSURE

If the MEC closed temporarily, there are additional tasks to be performed, including notifications for areas of transmission line engineering and biological resources.

6.1 TRANSMISSION LINE ENGINEERING

MEC signed a third-party Generator Interconnection Agreement (GIA), with PG&E and CAISO. In the event of a planned, unexpected temporary, and unexpected permanent closure contact shall be made with PG&E and Cal ISO to ensure compliance with all applicable laws, ordinances, regulations, and standards (LORS), and that system safety and reliability will not be jeopardized.

6.2 BIOLOGICAL RESOURCES

In the case of temporary closure, measures to protect biological resources would be needed only if there was a potential to surface disturbances or releases of harmful materials. If such an event occurs, MEC will consult with responsible agencies to plan clean up and mitigation of impacts to biological resources.

7.0 PERMANENT CLOSURE

In the event the MEC is closed permanently, there are additional tasks that need to be performed, including preparing a facility closure plan, notifying agencies, ensuring site security, removing hazardous materials and waste.

7.1 FACILITY CLOSURE PLAN

To ensure that the permanent closure does not create adverse impacts, a closure process will be undertaken by MEC that provides for careful consideration of available options, applicable laws, ordinances, regulations, standards, and local plans in existence at the time of closure. MEC will meet with the CEC and other agencies as necessary prior to the development of the closure plan to establish the elements of the plan. In accordance with CEC Conditions of Certification, the plan will include the following:

- 1) Identify and discuss any impacts and mitigation to address significant adverse impacts associated with proposed closure activities and to address facilities, equipment, or other project related remnants that will remain at the site.
- 2) Identify a schedule of activities for closure of the power plant site, transmission line corridor, and all other appurtenant facilities constructed as part of the project.
- 3) Identify any facilities or equipment intended to remain on site after closure, the reason, and any future use.
- 4) Address conformance of the plan with all applicable laws, ordinances, regulations, standards, local/regional plans in existence at the time of facility closure, and applicable conditions of certification.



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- Removal of transmission conductors when they are no longer used or useful.
- 6) Removal of all power plant site facilities and related facilities.
- 7) Measures to restore wildlife habitat to promote the re-establishment of native plant and wildlife species.
- 8) Revegetation of the plant site and other disturbed areas utilizing appropriate seed mixture.

The plan will be submitted to the CEC CPM, Santa Clara County, and City of San Jose for review and approval at least 12 months (or other mutually agreed to time) prior to commencing the permanent closure activities.

7.2 AGENCY NOTIFICATION

Additional notification may be necessary in the event of a permanent closure, including re-notifying each of the agencies listed in Table 1. The Closure Plan will also be sent to those appropriate agencies with which MEC has a current permit (e.g., Regional Water Quality Control Board, Bay Area Air Quality Management District, USEPA, etc.)

7.3 SITE SECURITY

Prior to permanent closure, the Plant Manager or designee will notify the San Jose Fire Department and City of San Jose Police Department, giving the notice that the existing level of site surveillance will not be in effect. This will enable these agencies to respond appropriately in the event of a disturbance or fire. It may be necessary for MEC to provide site security for a period following permanent closure, the Plant Manager or designee will determine the need for such interim security and will address it in the Closure Plan, if necessary.

7.4 REMOVAL OF HAZARDOUS MATERIALS AND WASTE

As required by the CEC Commission Decision, MEC is responsible for removing all hazardous materials from the site as part of permanent site closure. If MEC intends to redevelop the site, other plans may be made to either remove or store materials in different locations. The details of the removal will be covered in the Closure Plan.

7.5 BIOLOGICAL, CULTURAL, AND PALEONTOLOGICAL RESOURCES

When a permanent Closure Plan is prepared, it will include the take avoidance and mitigation requirements in effect at the time for the species that would be impacted. The plan will also include the removal of the transmission facilities when they are no longer used and useful and reclamation of areas where facilities would be removed. This may include ripping of soil contouring of disturbed areas, implementation of erosion control, revegetation, and other measures deemed appropriate at the time the Closure Plan is developed.

Biological resources compliance reporting for closure activities would likely include pre-activity survey reports, environmental monitoring reports during reclamation, and a final report describing the closure activities and any follow-on reclamation work that would be required.

The permanent Closure Plan will include a description regarding the potential of the closure activities to impact cultural and paleontological resources. The closure requirements are to be based upon the Cultural Resources and Paleontological Resources Final Report. If no activities are proposed that would



potentially impact either of these resources, no mitigation measures will be required. Should a discovery be made, it will be necessary to update the Cultural Resources and Paleontological Resources final report.

The facility will comply with all COC's including contracting with qualified Cultural, Paleontological, Native American and Biological Monitors when condition require. These monitors will be identified in the final Closure Plan if required.

Appendix 5



Re: Metcalf Energy Center (55393) - 1

Dear Certifying Official:

Thank you for submitting your Quarterly Emissions Report using the U. S. EPA's Emissions Collection and Monitoring Plan System (ECMPS) software. This ECMPS Feedback report provides you with a detailed submission receipt, a summary of the evaluations performed on your submission, and guidance on any follow-up actions needed if any errors were found. EPA has also received a copy of this Feedback Report as part of your submission.

SUBMISSION STATUS

The EPA has received your Quarterly Emissions Report for the Facility and Monitoring Location(s) listed in Table 1 below. The Table also provides confirmation of EPA's receipt (Date, Time, etc.) of your submission. Prior to submission ECMPS evaluated your emissions report and assigned an overall "Feedback Status Level" to it, based on the results (see Table 1). This Feedback Report also contains Table 2, which displays EPA-Accepted Cumulative Values for emissions and other parameters.

Table 1: Submission Receipt and Feedback Status Level Information

Report Received for Facility ID (ORIS Code):	55393
Facility Name:	Metcalf Energy Center
State:	CA
Monitoring Locations:	1
Submission Type:	EM for 2024 QTR 4
Feedback Status Level:	No Errors
Submission Date/Time:	01/16/2025 9:36:59 AM
Submitter User ID:	rsilva
Submission ID:	1732959
Resubmission Required:	No
EPA Analyst:	Bryan Ramirez; (202) 564-7591; ramirez.bryan@epa.gov

EXPLANATION OF YOUR FEEDBACK STATUS LEVEL LISTED IN TABLE 1

The EPA has accepted your Emissions data submission. ECMPS detected no errors in your data based on the checks performed. NOTE: The ECMPS submission access window for this Emissions report has been closed. If you need to resubmit this data, please see the DATA RESUBMISSION guidance, below.

OTHER INFORMATION AND BULLETINS FROM EPA

QUESTIONS: Please contact your EPA Analyst listed in Table 1 with any questions regarding this submission and the evaluation results. If you need assistance with correcting problems in the Emissions data for this facility, please send an email to ECMPS Technical Support at: ecmps-support@camdsupport.com.

DATA RESUBMISSION: If you need to resubmit emissions data, including for previous calendar quarters, please complete the ECMPS Data Resubmission Request Form located at: https://ecmps.camdsupport.com/help_resubmit_form.shtml. Please provide detailed documentation of the reasons for the resubmission. Support staff will review your request and notify you via e-mail when the necessary database access window has been granted for your resubmission.

ECMPS Data Reporting Instructions: for detailed information about reporting Monitoring Plan, QA/Certification Test, and Emissions data, please see the ECMPS Reporting Instructions on EPA's website at: https://www.epa.gov/power-sector/ecmps-reporting-instructions.

If you have any questions regarding this correspondence, please feel free to contact your EPA Analyst listed in Table 1 as soon as possible. Thank you for your attention to this matter.

Facility Name: Metcalf Energy Center

Facility ID (ORISPL): 55393 State: CA

Table 2: Cumulative Data Summary -- EPA-Accepted Values

Unit/Stack/Pipe ID: 1

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Ozone Season	Year-to-Date
Number of Operating Hours	1,712	444	1,654	1,616		5,426
Operating Time (hrs)	1,694.91	424.55	1,629.50	1,598.53		5,347.49
SO2 Mass (tons)	1.0	0.2	0.9	0.9		3.0
CO2 Mass (tons)	192,248.1	42,854.2	175,465.2	174,597.1		585,164.6
Heat Input (mmBtu)	3,234,976	721,114	2,952,551	2,937,942		9,846,583
NOx Emission Rate (lb/mmBtu)	0.008	0.013	0.008	0.008		0.008



Re: Metcalf Energy Center (55393) - 2

Dear Certifying Official:

Thank you for submitting your Quarterly Emissions Report using the U. S. EPA's Emissions Collection and Monitoring Plan System (ECMPS) software. This ECMPS Feedback report provides you with a detailed submission receipt, a summary of the evaluations performed on your submission, and guidance on any follow-up actions needed if any errors were found. EPA has also received a copy of this Feedback Report as part of your submission.

SUBMISSION STATUS

The EPA has received your Quarterly Emissions Report for the Facility and Monitoring Location(s) listed in Table 1 below. The Table also provides confirmation of EPA's receipt (Date, Time, etc.) of your submission. Prior to submission ECMPS evaluated your emissions report and assigned an overall "Feedback Status Level" to it, based on the results (see Table 1). This Feedback Report also contains Table 2, which displays EPA-Accepted Cumulative Values for emissions and other parameters.

Table 1: Submission Receipt and Feedback Status Level Information

Report Received for Facility ID (ORIS Code):	55393
Facility Name:	Metcalf Energy Center
State:	CA
Monitoring Locations:	2
Submission Type:	EM for 2024 QTR 4
Feedback Status Level:	No Errors
Submission Date/Time:	01/16/2025 9:38:01 AM
Submitter User ID:	rsilva
Submission ID:	1732966
Resubmission Required:	No
EPA Analyst:	Bryan Ramirez; (202) 564-7591; ramirez.bryan@epa.gov

EXPLANATION OF YOUR FEEDBACK STATUS LEVEL LISTED IN TABLE 1

The EPA has accepted your Emissions data submission. ECMPS detected no errors in your data based on the checks performed. NOTE: The ECMPS submission access window for this Emissions report has been closed. If you need to resubmit this data, please see the DATA RESUBMISSION guidance, below.

OTHER INFORMATION AND BULLETINS FROM EPA

QUESTIONS: Please contact your EPA Analyst listed in Table 1 with any questions regarding this submission and the evaluation results. If you need assistance with correcting problems in the Emissions data for this facility, please send an email to ECMPS Technical Support at: ecmps-support@camdsupport.com.

DATA RESUBMISSION: If you need to resubmit emissions data, including for previous calendar quarters, please complete the ECMPS Data Resubmission Request Form located at: https://ecmps.camdsupport.com/help_resubmit_form.shtml. Please provide detailed documentation of the reasons for the resubmission. Support staff will review your request and notify you via e-mail when the necessary database access window has been granted for your resubmission.

ECMPS Data Reporting Instructions: for detailed information about reporting Monitoring Plan, QA/Certification Test, and Emissions data, please see the ECMPS Reporting Instructions on EPA's website at: https://www.epa.gov/power-sector/ecmps-reporting-instructions.

If you have any questions regarding this correspondence, please feel free to contact your EPA Analyst listed in Table 1 as soon as possible. Thank you for your attention to this matter.

Facility Name: Metcalf Energy Center

Facility ID (ORISPL): 55393 State: CA

Table 2: Cumulative Data Summary -- EPA-Accepted Values

Unit/Stack/Pipe ID: 2

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Ozone Season	Year-to-Date
Number of Operating Hours	2,183	376	1,704	1,385		5,648
Operating Time (hrs)	2,182.80	366.50	1,680.86	1,370.54		5,600.70
SO2 Mass (tons)	1.2	0.2	0.9	0.8		3.1
CO2 Mass (tons)	244,399.2	39,202.4	186,823.0	153,241.6		623,666.2
Heat Input (mmBtu)	4,112,465	659,640	3,143,676	2,578,551		10,494,332
NOx Emission Rate (lb/mmBtu)	0.006	0.009	0.007	0.007		0.007

Appendix 6



Memorandum

2101 Webster Street Suite 1410 155 Grand Avenue Suite 800 Oakland, CA 94612 United States T +1.510.251.2426 www.jacobs.com

Subject Metcalf Energy Center – Year 2025 Annual Compliance Report for Biological Resources (COC

BIO-2)

Facility Name Metcalf Energy Center

Attention Rosemary Silva/Calpine

From Scott Lindemann/Jacobs

Date June 26, 2025

Copies to Joe Aguirre/Jacobs

1. Introduction

This Metcalf Energy Center (MEC) Year 2025 Annual Compliance Report for Biological Resources fulfills the California Energy Commission (CEC) requirement for Condition of Certification (COC) BIO-2, "Designated Biologist Duties." BIO-2 states that the Designated Biologist (DB) will perform the stated duties of BIO-2 relating to "any site (or related facilities) mobilization, ground disturbance, grading, construction, operation, and closure activities." In support of COC BIO-2, the DB is required to maintain written records of the tasks specified previously and those included in the Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP). Summaries of these records will be submitted in the annual compliance report.

The BRMIMP for the MEC was prepared in July 2001 as required under the COC BIO-4 set forth by the CEC in their final decision dated October 1, 2001 (99-AFC-3). The purpose of the BRMIMP is to ensure that actions authorized, funded, or carried out by state or federal lead agencies are not likely to jeopardize the continued existence of endangered, threatened, or other special-status species. The BRMIMP describes mitigation measures and guidance to protect biological resources within the project area.

2. Project Location

The MEC is a 600-megawatt natural gas-fired combined cycle power plant operated by Calpine. The MEC is located at the southern edge of the City of San Jose in Santa Clara County. Specifically, the 14.2-acre site is located on the northwestern portion of the Morgan Hill United States Geological Survey quadrangle (Township 8S, Range 2E). The site comprises a 10.9-acre footprint and 3.3-acre riparian corridor. Monterey Road and the Union Pacific Railroad immediately border the MEC site on the east, and farmed agricultural land borders the MEC site to the south. Site access is currently from a railroad overcrossing off Monterey Road, between Metcalf Road to the north and Blanchard Road to the south.

3. Monitored Activities

Since the MEC became operational, Calpine has complied with applicable CEC COCs and periodically consulted with the DB. This 2025 reporting period covers the period between January 2024 and



Memorandum

Metcalf Energy Center – Year 2025 Annual Compliance Report for Biological Resources (COC BIO-2)

December 2024. The monitoring and compliance efforts for the subject year are documented further in this section and in Attachment 1 – Site Photographs.

A biological site walkthrough was completed by CEC-approved DB Scott Lindemann (Jacobs), on June 9, 2025. The purpose of the biological site walkthrough was to identify biological concerns and carry out a general monitoring survey.

During the biological site walkthrough, ground squirrel (*Otospermophilus beecheyi*) burrows were recorded within the MEC site on the northern boundary of the detention pond (Attachment 1, Photograph 4). While suitable burrows were observed, evidence of occupancy by burrowing owl (*Athene cunicularia*) such as feathers and white-wash was not detected.

Calpine staff noted that a rock pigeon (*Columba livia*) infestation occurred in approximately 2016, which resulted in excessive fecal waste presenting hazardous conditions to employees. As such, a falconer was employed to control the rock pigeon population on site. The falconer was not active during the 2025 reporting period. No rock pigeon infestation has occurred since these abatement measures were introduced. It is noted that rock pigeon is not afforded protection under the Migratory Bird Treaty Act of 1918 (*United States Code* Title 16, Sections 703–712).

The DB verified that all site personnel are provided training regarding the protected species that may be present in or around the MEC. The training slides are provided in Attachment 2.

4. Conclusion

The MEC has demonstrated continued compliance with biological mitigation and protection measures included in the COCs and BRMIMP that are applicable to operation of the facility for the period of January 2024 to December 2024. The DB will remain available to assist with any investigation and biological compliance issues that may arise.

Attachment 1 Site Photographs



Photograph 1. Trees along southern boundary of MEC site. June 9, 2025.



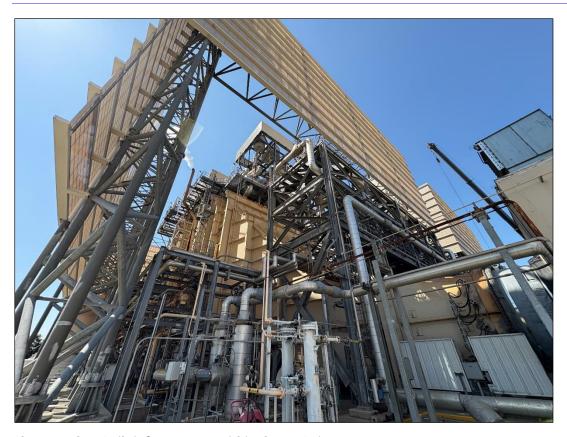
Photograph 2. Southwest site boundary of the MEC site. June 9, 2025.



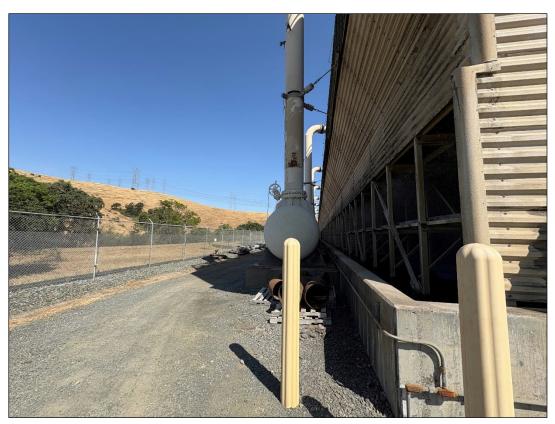
Photograph 3. Detention pond in southwest area of the MEC site. June 9, 2025.



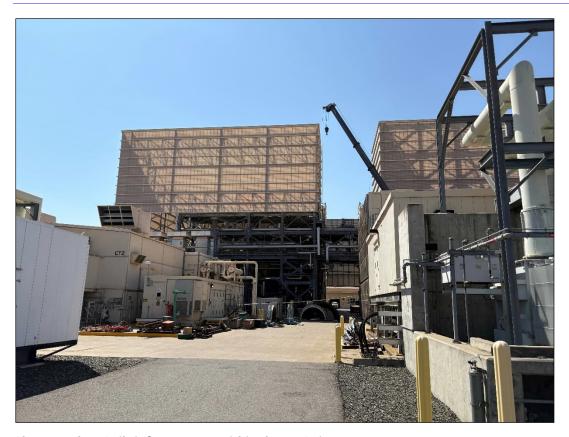
Photograph 4. Ground squirrel burrows bordering the detention ponds; southeast of MEC site. June 9, 2025.



Photograph 5. Built infrastructure within the MEC site. June 9, 2025.



Photograph 6. Boundary treatment along the western site boundary of MEC. June 9, 2025.



Photograph 7. Built infrastructure within the MEC site. June 9, 2025.



Photograph 8. Trees along entrance roadway at front gate to MEC site. June 9, 2025.

Attachment 2 Contractor Orientation

Contractor Orientation Biological Resources

Metcalf is situated in an ecologically diverse area.





Bay Checkerspot Butterfly

This area is home to several threatened and endangered plants and animals, including the California Tiger Salamander, Western Pond Turtle, Burrowing Owl, and the Bay Checkerspot Butterfly.

DO NOT disturb or touch any wildlife you encounter onsite.

Report any wildlife encountered to the Control Room immediately.



Burrowing Owl



California Tiger Salamander

Appendix 7

		Hazardous	s Materials /	And Waste	s Inventor	y Matrix	Report			
Facility Name	os Esteros Critical Energy Facility os Esteros Critical Energy Facility 00 THOMAS FOON CHEW WY, San Jose 95134			Chemical Loca		RVICE TRA	ANSFORMERS	CERS ID Facility II Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. Cla	ss Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 9 - Misc. Hazard Materials	CAS NO NA Map: 1 Grid: F8, E8	Liquid Of Type	9210 orage Container ther ays on Site: 365	4605	9210 Pressue Ambient Temperature Ambient	•••••	- Health Respiratory Skin Sensitization	HIGHLY REFINED PETI	ROLEUM OILS 100%	128-37-0

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		Hazardous	s Materials	And Waste	s Inventor	y Matrix	Report			
Facility Name Los	s Esteros Critical Energy Facility s Esteros Critical Energy Facility THOMAS FOON CHEW WY, San Jose 95134			Chemical Loca	NSFORME	RS		CERS ID Facility I Status	10096750 FA0256442 Submitted on 7/8	/2025 12·14 DM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories		Hazardous Component (For mixture only) % Wt	
DOT: 3 - Flammable and Combustible Liquids	DEILETRIC OIL CAS No Map: 1 Grid: C2, F7, C8, E7	Liquid Of Type	2248 orage Container ther ays on Site: 365	489	2248 Pressue Ambient Temperature Ambient	•••••	- Physical Flammable e Health Acute Toxicity			

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		Hazardou	us Materials /	And Waste	s Inventor	y Matrix	Report			
Facility Name Los Estero	os Critical Energy Facility os Critical Energy Facility S FOON CHEW WY, San Jose 95134			Chemical Loca ADMIN BI	ation LDG OPEN A	AREA (1 E	BREAKER)	CERS ID Facility II Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases	CAS No 2551-62-4 Map: 1 Grid: A10	Gas C	128 Storage Container Other Days on Site: 365	24	24 Pressue Ambient Temperature Ambient		- Physical Gas le Under Pressure - Health Simple Asphyxiant			7

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		Hazardous	s Materials A	And Waste	s Inventor	y Matrix	Report			
Facility Name Los	s Esteros Critical Energy Facility s Esteros Critical Energy Facility THOMAS FOON CHEW WY, San Jose 95134			Chemical Loca				•	FA0256442	025 42 44 514
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Status Component Name	Submitted on 7/8/2 Hazardous Components (For mixture only) % Wt	EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids	LUBRICATING OIL CAS No Map: 1 Grid: C4	Liquid Of Type	98 orage Container ther ays on Site: 365	49	98 Pressue Ambient Temperature Ambient		- Physical Flammable le Health Acute Toxicity			

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		Hazardo	us Materials A	and Waste	s Inventor	y Matrix I	Report			
acility Name Los Estero	s Critical Energy Facility s Critical Energy Facility FOON CHEW WY, San Jose 95134			Chemical Loca AMMONIA	tion A STORAGE	AREA		CERS ID Facility I Status	10096750 P FA0256442 Submitted on 7/8/	/2025 12:14 PM
OT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component: (For mixture only) % Wt	EHS CAS No.
OOT: 8 - Corrosives (Liquids and isolids) Corrosive	AMMONIUM HYDROXIDE 19% CAS No 1336-21-6 Map: 1 Grid: H6	Pounds State Liquid Type		14554	24741.81 Pressue Ambient Temperature Ambient	Waste Code	- Physical Corrosive To	component fame	70 444	

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		Hazardo	ous Materials A	And Waste	s Inventory	y Matrix	Report			
Facility Name Los Estero	os Critical Energy Facility os Critical Energy Facility S FOON CHEW WY, San Jose 95134			Chemical Loca	ation HEMICAL SK	ID		CERS ID Facility ID Status	10096750 FA0256442 Submitted on 7/8/	2025 12:14 PM
				Quantities		Annual Waste	Federal Hazard		lazardous Components (For mixture only)	
DOT Code/Fire Haz. Class DOT: 8 - Corrosives (Liquids and Solids)	CHEMTREAT BL-152 CAS No		Storage Container	Largest Cont. 400	Avg. Daily 400 Pressue	Amount 0 Waste Code	- Physical Corrosive To	Component Name AMMONIUM HYDROX ETHANOLAMINE	% Wt IDE 30%	EHS CAS No. 1336-21-6 141-43-5
Corrosive	Map: 1 Grid: E5	Туре	Aboveground Tank Days on Site: 365		Ambient Temperature Ambient	•••••	- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	ETHANOLAWINE	10%	141-45-5
DOT: 8 - Corrosives (Liquids and Solids) Corrosive	CHEMTREAT BL-17945 CAS No Map: 1 Grid: E5	Liquid Type	Storage Container Aboveground Tank Days on Site: 365	400	400 Pressue Ambient Temperature Ambient	Waste Code	- Physical Corrosive To Metal - Health Acute Toxicity - Health Skin Corrosion Irritation	Sodium hydroxide SODIUM PHOSPHATE	2% 5%	1310-73-2 7601-54-9
DOT: 9 - Misc. Hazardous Materials	CHEMTREAT BL8401 CAS No Map: 1 Grid: E5	Liquid Type	Storage Container Plastic/Non-metalic Days on Site: 365	55 c Drum	55 Pressue Ambient Temperature Ambient		- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity			

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		Hazardou	s Materials /	And Wastes	s Inventory	/ Matrix	Report			
	os Esteros Critical Energy Facility os Esteros Critical Energy Facility			Chemical Loca	tion			CERS ID	10096750 D FA0256442	
	300 THOMAS FOON CHEW WY, San Jose 95134			BOILER PE	ED POIVIPS			Status	Submitted on 7/8	/2025 12:14 PM
				Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	S
DOT Code/Fire Haz. Cla	ss Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	CAS No Map: 1 Grid: E4, E7, D4, D7	Liquid O	280 torage Container Other	70	280 Pressue Ambient Temperature Ambient	Waste Cod	- Physical Hazard Not Otherwise Classified - Health Hazard Not Otherwise Classified			

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		Hazardous Ma	aterials Ar	nd Wastes	Inventory	Matrix I	Report			
Facility Name Los Este	ros Critical Energy Facility ros Critical Energy Facility AS FOON CHEW WY, San Jose 95134			Chemical Local CEMS STO	tion RAGE - UNI	Т1		CERS ID Facility I Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. Class DOT: 2.2 - Nonflammable Gase	Common Name S NITROGEN / NITRIC OXIDE CALIBRATION GAS CAS No Map: 1 Grid: E5	Cu. Feet 1	ax. Daily L 587.3 Container	Quantities Largest Cont. 144.3	Avg. Daily 1587.3 Pressue Ambient Temperature Ambient	Annual Waste Amount Waste Code	Federal Hazard Categories - Physical Gas Under Pressure - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gase	S NITROGEN / OXYGEN CALIBRATION GAS CAS No Map: 1 Grid: E5	State Storage Gas Cylinde Type	365.8 Container er n Site: 365	144.3	865.8 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas	r		
DOT: 2.2 - Nonflammable Gase	NITROGEN/CARBON MONOXIDE CALIBRATION GAS CAS No Map: 1 Grid: E5			144.3	1298.7 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas			
DOT: 2.2 - Nonflammable Gase	MITROGEN/CARBON MONOXIDE/NITRIC OXIDE CALIBRATION GAS CAS No Map: 1 Grid: E5			144.3	432 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas			

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		١	Hazardo	ous Materials A	And Wastes	s Inventory	y Matrix I	Report			
acility Name	Los Estero	s Critical Energy Facility s Critical Energy Facility FOON CHEW WY, San Jose 95134			Chemical Loca	tion PRAGE - UNI	IT 2		CERS ID Facility II Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
OT Code/Fire Haz. Cla OT: 2.2 - Nonflamm		Common Name NITROGEN / NITRIC OXIDE CALIBRATION GAS CAS No Map: 1 Grid: E6	Unit Cu. Fee State Gas Type Mixture	Max. Daily t 1587.3 Storage Container Cylinder Days on Site: 365	Quantities Largest Cont. 144.3	Avg. Daily 1587.3 Pressue Ambient Temperature Ambient	Annual Waste Amount	- Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye	Component Name	Hazardous Component (For mixture only) % Wt	S EHS CAS No.
OOT: 2.2 - Nonflamm	nable Gases	NITROGEN / OXYGEN CALIBRATION GAS CAS No Map: 1 Grid: E6	Cu. Fee	t 865.8 Storage Container Cylinder Days on Site: 365	144.3	865.8 Pressue Ambient Temperature Ambient	Waste Code	- Physical Oxidize - Health Respiratory Skin	er		
OT: 2.2 - Nonflamm	nable Gases	NITROGEN/CARBON MONOXIDE CALIBRATION GAS	State Gas	t 1298.7 Storage Container Cylinder	144.3	1298.7 Pressue Ambient	Waste Code	Sensitization - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant - Physical Gas Under Pressure - Health Respiratory Skin			
OT: 2.2 - Nonflamm	nable Gases	Map: 1 Grid: E6 NITROGEN/CARBON MONOXIDE/NITRIC OXIDE	Type Mixture	Days on Site: 365 tt 576 Storage Container	144.3	Ambient 432 Pressue	Waste Code	Sensitization - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant - Physical Gas			
		CALIBRATION GAS CAS No Map: 1 Grid: E5	Gas Type	Cylinder Days on Site: 365		Ambient Temperature Ambient		- Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant			

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	1	Hazardous	s Materials A	And Wastes	Inventory	Matrix I	Report			
Facility Name Los Ester	os Critical Energy Facility os Critical Energy Facility AS FOON CHEW WY, San Jose 95134			Chemical Loca	tion RAGE - UNI	Т3		CERS ID Facility Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. Class DOT: 2.2 - Nonflammable Gases	CALIBRATION GAS CAS No Map: 1 Grid: D6	Gas Cy Type Mixture Da	Max. Daily 1587.3 corage Container ylinder ays on Site: 365	Quantities Largest Cont. 144.3	Avg. Daily 1587.3 Pressue Ambient Temperature Ambient	Annual Waste Amount	- Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity	Component Name	Hazardous Component (For mixture only) % Wt	
DOT: 2.2 - Nonflammable Gases	CALIBRATION GAS CAS No Map: 1 Grid: D6	Gas Cy Type	865.8 corage Container ylinder ays on Site: 365	144.3	865.8 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Physical Oxidize - Health Acute Toxicity - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant	ir		
DOT: 2.2 - Nonflammable Gases	NITROGEN/CARBON MONOXIDE CALIBRATION GAS CAS No Map: 1 Grid: D6	State Store Gas Cy Type	1298.7 orage Container ylinder ays on Site: 365	144.3	1298.7 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas			
DOT: 2.2 - Nonflammable Gases	NITROGEN/CARBON MONOXIDE/NITRIC OXIDE CALIBRATION GAS CAS No Map: 1 Grid: E5	Gas Cy Type	576 corage Container ylinder ays on Site: 365	144.3	432 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant			

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		Hazardous Materials /	Allu Wastes	ilivelitory	IVIALITA	ерогі			
cility Name	os Esteros Critical Energy Facility os Esteros Critical Energy Facility 00 THOMAS FOON CHEW WY, San Jose 95134		CEMS STOR		Г 4		CERS ID Facility Status	10096750 ID FA0256442 Submitted on 7/8/	/2025 12:14 PM
DT Code/Fire Haz. Clas OT: 2.2 - Nonflamma		Unit Max. Daily Cu. Feet 1587.3 State Storage Container Gas Cylinder Type Mixture Days on Site: 365	•	Avg. Daily 1587.3 Pressue Ambient Temperature Ambient	Annual Waste Amount Waste Code	Federal Hazard Categories - Physical Gas Under Pressure - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific	Component Name	Hazardous Component (For mixture only) % Wt	
OT: 2.2 - Nonflamma	able Gases NITROGEN / OXYGEN CALIBRATION GAS CAS No Map: 1 Grid: D5	Cu. Feet 865.8 State Storage Container Gas Cylinder Type Days on Site: 365	•	865.8 Pressue Ambient Temperature Ambient	Waste Code	Target Organ Toxicity - Physical Gas Under Pressure - Health Acute Toxicity - Health Serious Eye Damage Eye Irritation - Health Simple			
OT: 2.2 - Nonflamma	CALIBRATION GAS CAS No Map: 1 Grid: D5	State Storage Container Gas Cylinder Type Mixture Days on Site: 365	• -	1298.7 Pressue Ambient Temperature Ambient		Asphyxiant - Physical Gas Under Pressure - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant			
OT: 2.2 - Nonflamma	MONOXIDE/NITRIC OXIDE CALIBRATION GAS CAS No Map: 1 Grid: E5	Cu. Feet 576 State Storage Container Gas Cylinder Type Mixture Days on Site: 365		432 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant			

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			Hazardo	us Materials <i>i</i>	And Waste	s Inventor	y Matrix	Report			
		os Critical Energy Facility os Critical Energy Facility			Chemical Loca				CERS ID	10096750 FA0256442	
		S FOON CHEW WY, San Jose 95134							Status	Submitted on 7/8,	
					Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	S
OT Code/Fire Haz. Cla	ass	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
OT: 9 - Misc. Hazar Naterials	rdous	DUPONT HCFC-123 CAS No 306-83-2 Map: 1 Grid: F7	Pounds State Liquid Type Pure	Storage Container Other Days on Site: 365	1900	7600 Pressue Ambient Temperature Ambient	Waste Code	- Physical Hazard Not Otherwise Classified - Health Respiratory Skin Sensitization - Health Specific Target Organ Toxicity	2,2-DICHLORO-1,1,1-TRIFLUOROETHANE	100%	306-83-2

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		Hazardo	ous Materials	And Waste	s Inventor	y Matrix	Report			
acility Name	os Esteros Critical Energy Facility os Esteros Critical Energy Facility 00 THOMAS FOON CHEW WY, San Jose 95134			CIRC WAT	etion TER PUMPS			CERS ID Facility I Status	10096750 FA0256442 Submitted on 7/8	/2025 12·14 PM
OOT Code/Fire Haz. Clas		Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	
OOT: 9 - Misc. Hazard Materials	CAS No Map: 1 Grid: F2	Gallons State Liquid Type Mixture	Storage Container Other Days on Site: 365	34	75 Pressue Ambient Temperature Ambient		- Physical Flammable - Health Acute Toxicity - Health Respiratory Skin Sensitization			
	SHELL TURBO T68 CAS No Map: 1 Grid: F2	Gallons State Liquid Type Mixture	Storage Container Other	34	165 Pressue Ambient Temperature Ambient	Waste Cod	- Physical Hazard Not Otherwise Classified - Health Hazard Not Otherwise Classified			

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		Hazardo	ous Materials A	And Waste	s Inventor	y Matrix	Report			
acility Name Los Este	ros Critical Energy Facility ros Critical Energy Facility IAS FOON CHEW WY, San Jose 95134			Chemical Loca CONTROL		ERSYS 4D	X-11 60 UNITS)	Facility ID	10096750 FA0256442 Submitted on 7/8/	2025 12:14 PM
OT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Ha Component Name	azardous Components (For mixture only) % Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids ar Solids)		Gallons		14	840 Pressue	Amount	- Physical Corrosive To	LEAD, LEAD COMPONE		7439-92-1
orrosive	CAS No.	Liquid Type	Other	•	< Ambient Temperature	Waste Code	- Health Skin	SULFURIC ACID	30%	√ 7664-93-9
	Map: 1 Grid: C5	Mixture	Days on Site: 365		< Ambient		Corrosion Irritation - Health Serious Eye Damage Eye Irritation			

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		Hazardous	s Materials /	And Waste	s Inventor	y Matrix	Report			
Facility Name Los E	steros Critical Energy Facility steros Critical Energy Facility HOMAS FOON CHEW WY, San Jose 95134			Chemical Loca	tion TOWER GE	AR BOXE	s	CERS ID Facility I Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids	SHELL MORLINA S3 BA 220 CAS No Map: 1 Grid: H1 F1, E1	Liquid Ot Type	126 orage Container ther ays on Site: 365	21	126 Pressue Ambient Temperature Ambient		- Physical Flammable e Health Acute Toxicity			

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	s Critical Energy Facility s Critical Energy Facility			Chemical Loca	ution WATER CHI	EMICALS		CERS ID Facility ID	10096750 FA0256442	
800 THOMA:	5 FOON CHEW WY, San Jose 95134					Annual		Status	Submitted on 7/	•
OOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Waste Amount	Federal Hazard Categories	Component Name	(For mixture only) % Wt	EHS CAS No.
	CHEMTREAT CL-5428 CAS No Map: 1 Grid: E1	Liquid Type	400 Storage Container Aboveground Tank Days on Site: 365	400	400 Pressue Ambient Temperature Ambient	Waste Code	- Physical Hazard Not Otherwise Classified - Health Hazard Not Otherwise Classified			
OOT: 9 - Misc. Hazardous Materials	CHEMTREAT CT-709 CAS No Map: 1 Grid: E1	Liquid Type	400 Storage Container Aboveground Tank Days on Site: 365	400	400 Pressue Ambient Temperature Ambient	Waste Code	Not Otherwise	SODIUM HEXAMETAP	PHOSPHATE 40%	10124-56-8
DOT: 8 - Corrosives (Liquids and Solids) Corrosive	SODIUM HYPOCHLORITE 12.5% CAS No Map: 1 Grid: E1	Liquid Type	6000 Storage Container Aboveground Tank Days on Site: 365	6000	6000 Pressue Ambient Temperature Ambient	Waste Code	- Physical Corrosive To Metal - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation			
DOT: 8 - Corrosives (Liquids and Solids) Corrosive	SULFURIC ACID 93% CAS No 7664-93-9 Map: 1 Grid: E1	Liquid Type	87234 Storage Container Aboveground Tank Days on Site: 365	87234	87234 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

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		Hazardo	ous Materials A	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org. Facility Name	Los Esteros Critical Energy Facility Los Esteros Critical Energy Facility 800 THOMAS FOON CHEW WY, San Jose 95134			Chemical Loca	tion #4 OILY WA	ATER SEPA	ARATOR #1	CERS ID Facility Status	10096750 ID FA0256442 Submitted on 7/8/202	5 12:14 PM
DOT Code/Fire Haz.	Class Common Name USED OIL CAS No. 70514-12-4	Unit Gallons State Liquid Type Mixture	Max. Daily S 773 Storage Container Other Days on Site: 365	Quantities Largest Cont. 773	Avg. Daily 600 Pressue < Ambient Temperature < Ambient	Annual Waste Amount 773 Waste Code	Federal Hazard Categories - Health Carcinogenicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity - Health Aspiration Hazard - Health Germ Cell Mutagenicity		Hazardous Components (For mixture only) % Wt EH	S CAS No.

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			Hazardo	ous Materials	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org. Facility Name	Los Ester	ros Critical Energy Facility ros Critical Energy Facility AS FOON CHEW WY, San Jose 95134			CHemical Loca	ation #3 OILY WA	ATER SEPA	RATOR #2	CERS ID Facility I Status	10096750 • FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. (Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
		USED OIL CAS No	Gallons State Liquid Type Mixture	S 773 Storage Container Other Days on Site: 365	773	600 Pressue < Ambient Temperature < Ambient	773 Waste Code	- Health Carcinogenicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation			

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			Hazardo	ous Materials /	And Waste	s Inventory	Matrix	Report			
CERS Business/Org. Facility Name	Los Estero	s Critical Energy Facility s Critical Energy Facility S FOON CHEW WY, San Jose 95134			Chemical Loca	RATOR RES	ERVOIRS		CERS ID Facility ID Status	10096750 FA0256442 Submitted on 7/	8/2025 12:14 PM
DOT Code/Fire Haz. (Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Compone (For mixture only) % Wt	
DOT: 3 - Flammabl Combustible Liquid		GST 32 GENERATOR LUBRICATING OIL CAS No Map: 1 Grid: D7, D4, E4, E7	State Liquid Type	Storage Container Other Days on Site: 365	500	2000 Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable - Health Hazard Not Otherwise Classified	DISTILLATES, HYDROTI HEAVY PARAFFINIC	REATED 98%	64742-54-7

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			Hazardou	us Materials /	And Waste	s Inventory	/ Matrix	Report			
CERS Business/Org. Facility Name	Los Ester	os Critical Energy Facility os Critical Energy Facility AS FOON CHEW WY, San Jose 95134			CTG HYDF	tion RAULIC STAF	RTER RES	SERVOIRS	CERS ID Facility I Status	10096750 • FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. (Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 3 - Flammabl Combustible Liquid		SHELL TELLUS S2 MX 46 CAS No Map: 1 Grid: D4, E4, D7, E7	Liquid (160 Storage Container Other	40	160 Pressue Ambient Temperature Ambient	Waste Cod	- Physical Flammable le Health Acute Toxicity			

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			Hazardo	us Materials A	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org. Facility Name	Los Estero	os Critical Energy Facility os Critical Energy Facility S FOON CHEW WY, San Jose 95134			Chemical Loca				CERS ID Facility I Status	10096750 • FA0256442 Submitted on 7/8	3/2025 12:14 PM
DOT Code/Fire Haz. C	lass	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	ts EHS CAS No.
DOT: 3 - Flammable Combustible Liquid Combustible Liquid	S	NO. 2 DIESEL FUEL CAS No NA Map: 1 Grid: B9	Liquid Type	320 Storage Container Aboveground Tank Days on Site: 365	320	320 Pressue Ambient Temperature Ambient		- Physical Flammable - Physical Contact Water Emits Flammable Gas - Health Acute Toxicity - Health Respiratory Skin Sensitization - Health Aspiration Hazard			91-20-3 68476-34-6

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		Hazardo	ous Materials /	And Waste	s Inventory	y Matrix	Report			
Facility Name Los Estero	os Critical Energy Facility os Critical Energy Facility S FOON CHEW WY, San Jose 95134			Chemical Loca		NTERSTAT	TE 8D-MHD 2 U		442	8/2025 12:14 PM
				Quantities		Annual Waste	Federal Hazard	Hazardous Co (For mixtu	re only)	
DOT Code/Fire Haz. Class DOT: 8 - Corrosives (Liquids and Solids) Corrosive	Common Name LEAD-ACID BATTERY CAS No Map: 1 Grid: B9	Liquid Type	Max. Daily 9 Storage Container Other Days on Site: 365	4.5	Avg. Daily 9 Pressue Ambient Temperature Ambient	•••••	Categories - Physical Flammable - Physical Explosive - Physical Corrosive To Metal - Health Carcinogenicity - Health Acute Toxicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity	Component Name Lead/Lead Oxide (Litharge)/Lead Sulfate Sulfuric Acid (Battery Electrolyte)	% Wt 70% 15%	T439-92-1 ✓ 7664-93-9

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			Hazardoı	us Materials A	And Waste	s Inventory	Matrix	Report			
CERS Business/Org. Facility Name		ros Critical Energy Facility ros Critical Energy Facility			Chemical Loca	compress	OR SKID		CERS ID	10096750 D FA0256442	
,		AS FOON CHEW WY, San Jose 95134							Status	Submitted on 7/8	/2025 12:14 PM
					Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	ts
DOT Code/Fire Haz.	Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 9 - Misc. Haz Materials	ardous	SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: H4	Liquid (180 Storage Container Other Days on Site: 365	50	180 Pressue Ambient Temperature Ambient	Waste Cod	- Physical Hazard Not Otherwise e Classified - Health Serious Eye Damage Eye Irritation			

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		Hazardo	ous Materials /	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org.	Los Esteros Critical Energy Facility			Chemical Loca				CERS ID	10096750	
Facility Name	Los Esteros Critical Energy Facility			FUEL GAS	CONDENSA	ATE DRAII	N TANK	Facility I	D FA0256442	
	800 THOMAS FOON CHEW WY, San Jose 95134							Status	Submitted on 7/8/	2025 12:14 PM
				Quantities		Annual Waste	Federal Hazard		Hazardous Components (For mixture only)	;
DOT Code/Fire Haz. (Class Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	NATURAL GAS CONDENSATES	Gallons	500	500	50	50				
	CAS No 68919-39-1	State Liquid	Storage Container Other		Pressue < Ambient	Waste Cod 221	e_			
		Type Mixture	Days on Site: 365		Temperature < Ambient					

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Hazardous Materials And Wastes Inventory Matrix Report											
Los Esteros Critical Energy Facility acility Name Los Esteros Critical Energy Facility 800 THOMAS FOON CHEW WY, San Jose 95134			Chemical Location GAS TURBINE RESERVOIR					CERS ID 10096750 Facility ID FA0256442 Status Submitted on 7/8/2025 12:14 PM			
OOT Code/Fire Haz. C	lass	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories		Componer xture only) % Wt	
DOT: 9 - Misc. Haza Materials	rdous	AEROSHELL 500 CAS No Map: 1 Grid: D8, E8, D4, E4	Gallon: State Liquid Type Mixture	Storage Container Other Days on Site: 365	150	600 Pressue Ambient Temperature Ambient	Waste Code	- Physical Hazard Not Otherwise Classified - Health Acute Toxicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Specific Target Organ Toxicity	1-NAPHTHYLAMINE, N-PHENY TRICRESYL PHOSPHATE .04%	2% 2%	90-30-2 1330-78-5

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		Hazardo	ous Materials	And Waste	s Inventory	y Matrix I	Report				
Facility Name Lo	os Esteros Critical Energy Facility os Esteros Critical Energy Facility O THOMAS FOON CHEW WY, San Jose 95134			Chemical Loca GENERAT	or STEP UP	TRANSFO	DRMERS	CERS ID Facility II Status	10096750 • FA0256442 Submitted on		025 12:14 PM
DOT Code/Fire Haz. Class	Common Name HYVOLT II TRANSFORMER INSULATING OIL CAS No Map: 1 Grid: D8, D3, E3, E8	Unit Gallons State Liquid Type Mixture	Max. Daily 5 25036 Storage Container Other Days on Site: 365	Quantities Largest Cont. 6259	Avg. Daily 25036 Pressue Ambient Temperature < Ambient	Annual Waste Amount Waste Code	Federal Hazard Categories - Physical Hazard Not Otherwise Classified - Health Skin Corrosion Irritation - Health Aspiration Hazard	Component Name SEVERLY HYDROTREA NAPHTHENIC DISTILLA		ly)	EHS CAS No. 64742-53-6
DOT: 2.2 - Nonflammal	ble Gases NITROGEN CAS NO 7727-37-9 Map: 1 Grid: D8, D3, E3, E8	Cu. Fee State Gas Type Pure	Storage Container Cylinder Days on Site: 365	300	1200 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Health Serious Eye Damage Eye Irritation				

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		Hazardo	us Materials	And Waste	s Inventor	y Matrix I	Report		
Facility Name Los Es	steros Critical Energy Facility steros Critical Energy Facility IOMAS FOON CHEW WY, San Jose 95134			Chemical Loca	otion OUS WASTE	STORAGE		CERS ID Facility Status	10096750 P FA0256442 Submitted on 7/8/2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Components (For mixture only) % Wt EHS CAS No.
DOT: 4.1 - Flammable Solid Flammable Solid	DEBRIS/RAGS CONTAMINATED WITH PETROLEUM/OIL CAS No Map: 1 Grid: C8	Solid Type	840 Storage Container Steel Drum Days on Site: 180	230	600 Pressue Ambient Temperature Ambient	2500 Waste Code 352	- Physical Flammable - Health Hazard Not Otherwise Classified		
DOT: 3 - Flammable and Combustible Liquids Flammable Liquid, Class I-A	USED OIL CAS NO NA Map: 1 Grid: C8	Liquid Type	330 Storage Container Steel Drum Days on Site: 180	55	285 Pressue Ambient Temperature Ambient	221	- Physical Flammable Health Acute Toxicity		
DOT: 4.1 - Flammable Solid Flammable Solid	S USED OIL FILTERS CAS NO NA Map: 1 Grid: C8	Solid Type	400 Storage Container Steel Drum Days on Site: 180	200	200 Pressue Ambient Temperature Ambient	400 Waste Code 352	- Physical Flammable 		
DOT: 3 - Flammable and Combustible Liquids Flammable Liquid, Class I-A	USED OIL/OILY WATER CAS No NA Map: 1 Grid: C8	Liquid Type	330 Storage Container Steel Drum Days on Site: 180	55	285 Pressue Ambient Temperature Ambient	221	- Physical Flammable - Health Acute Toxicity		

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		Hazardo	us Materials /	And Waste	s Inventor	y Matrix	Report			
Facility Name Los	s Esteros Critical Energy Facility s Esteros Critical Energy Facility O THOMAS FOON CHEW WY, San Jose 95134			Chemical Loca				CERS ID Facility II Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	s EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids Flammable Liquid, Class	MISCELLANEOUS FLAMMABLES CAS No.	Gallons State Liquid Type		1	75 Pressue Ambient Temperature Ambient	Waste Cod	- Physical Flammable - Physical Gas Under Pressure - Health Acute Toxicity		,	

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		Hazardou	ıs Materials A	And Waste	s Inventory	Matrix	Report			
acility Name Los Este	ros Critical Energy Facility ros Critical Energy Facility AS FOON CHEW WY, San Jose 95134			Chemical Loca OIL STORA				CERS ID 100967! Facility ID FA02566 Status Submitted	142	/2025 12:14 PM
				Quantities		Annual Waste	Federal Hazard	Hazardous Co (For mixtur	re only)	
OOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
OT: 8 - Corrosives (Liquids an olids)	d CHEMTREAT BL-1304	Gallons	220	55	220		- Physical Corrosive To	POTASSIUM HYDROXIDE	30%	1310-58-3
Silu3)	CAS No		torage Container Plastic/Non-metali	c Drum	Pressue Ambient	Waste Code		SODIUM HYDROXIDE`	40%	1310-73-2
	Map: C Grid: 8	Туре	, , , , , , , , , , , , , , , , , , , ,		Temperature		- Health Skin			
			Days on Site: 365		Ambient		Corrosion Irritation			
OT: 8 - Corrosives (Liquids an	d CHEMTREAT BL-152	Gallons	275	55	165	0	- Physical	AMMONIUM HYDROXIDE	30%	√ 1336-21-6
olids)	CAS No		torage Container		Pressue		Corrosive To			
	CAS NO		Plastic/Non-metali	c Drum	Ambient	Waste Code		ETHANOLAMINE	10%	141-43-5
orrosive	Map: 1 Grid: C8	Type			Temperature		- Health Acute Toxicity			
		Mixture [Days on Site: 365		Ambient		- Health Skin			
							Corrosion			
							Irritation			
							- Health Serious			
							Eye Damage Eye Irritation			
OT: 9 - Misc. Hazardous	CHEMTREAT BL8401	Gallons	110	55	55		- Health Acute			,
laterials	CAS No	State S	torage Container		Pressue		Toxicity			
		Liquid P	Plastic/Non-metali	c Drum	Ambient	Waste Code	Health Skin			
	Map: 1 Grid: C8	Type			Temperature		Corrosion Irritation			
		Mixture [Days on Site: 365		Ambient		- Health Serious			
							Eye Damage Eye			
							Irritation			
							 Health Specific Target Organ 			
							Toxicity			
OT: 8 - Corrosives (Liquids an	d CHEMTREAT CL-2230	Gallons	30	5	30		- Physical	5-CHLORO-2METHYL-4-	1%	26172-55-4
olids)	CAS No	State S	torage Container		Pressue		Corrosive To	ISOTHIAZOLIN-3-ONE		
		Liquid C	Carboy		Ambient	Waste Code	Metal - Health Skin	2-METHYL-4-ISOTHIAZDIN-3-ONE	0%	2682-20-4
	Map: 1 Grid: C8	Type			Temperature		Corrosion			
		Mixture [Days on Site: 365		Ambient		Irritation			
							- Health Serious			
							Eye Damage Eye			
OT: 8 - Corrosives (Liquids an	d CHEMTREAT CL-2875	Gallons	550	55	275		Irritation - Physical			,
olids)			torage Container	33	Pressue		Corrosive To			
	CAS No		Plastic/Non-metali	c Drum	Ambient	Waste Code				
orrosive	Map: 1 Grid: C8	Туре			Temperature		- Health Acute			
		Mixture [Days on Site: 365		Ambient		Toxicity - Health Skin			
							Corrosion			
							Irritation			
							- Health Serious			
							Eye Damage Eye			
							Irritation			

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	,	Hazardo	ous Materials A	And Waste	s Inventory	/ Matrix F	Report			
ERS Business/Org. acility Name	Los Esteros Critical Energy Facility Los Esteros Critical Energy Facility 800 THOMAS FOON CHEW WY, San Jose 95134			Chemical Loca OIL STORA				CERS ID Facility II Status	10096750 • FA0256442 Submitted on 7/8	/2025 12:14 PM
OOT Code/Fire Haz. (Class Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories		Hazardous Component (For mixture only) % Wt	
DOT: 9 - Misc. Haz Materials		Gallons State Liquid Type		55	110 Pressue Ambient Temperature Ambient	Waste Code	- Physical Hazard Not Otherwise	Component Name	76 400	LIIS CAS NO.
OOT: 9 - Misc. Haz Materials	CAS No Map: 1 Grid: C8	Туре	Storage Container Plastic/Non-metali Days on Site: 365		550 Pressue Ambient Temperature Ambient	Waste Code	Not Otherwise Classified - Health Acute Toxicity - Health Serious Eye Damage Eye Irritation	SODIUM HEXAMETAF	PHOSPHATE 40%	10124-56-8
	CAS No Map: 1 Grid: C8	Туре	Storage Container Plastic/Non-metali	c Drum	Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable - Health Skin Corrosion Irritation			
DOT: 9 - Misc. Haz Materials	CONNECT 6000 CAS NO NA Map: 1 Grid: C8	Gallons State Liquid Type		55 c Drum	110 Pressue Ambient Temperature Ambient	Waste Code	Not Otherwise	ETHOXYLATED ALCOR 2-BUTOXY ETHANOL WATER	HOLS (C9-C11)	68439-46-3 111-76-2 7732-18-5
DOT: 3 - Flammabl Combustible Liquid Combustible Liquid	CAS No	Gallons State Liquid Type Pure	Storage Container Can		60 Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable - Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Specific Target Organ Toxicity - Health Aspiration Hazard			
	HYTRANS 61 TRANSFORMER OIL CAS No Map: 1 Grid: C8	State Liquid Type	Storage Container Steel Drum Days on Site: 365	55	110 Pressue Ambient Temperature Ambient	Waste Code	- Physical Hazard			

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Case Properties Propert			Hazardo	us Materials <i>F</i>	And Waste	s Inventory	y Matrix	Report			
	Facility Name Los Estero	s Critical Energy Facility							Facility	FA0256442	/2025 12:14 PM
					Quantities			Federal Hazard			s
Map: 1 Grid C8 Map: 1 Gr	DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily		Avg. Daily	_		Component Name	% Wt	EHS CAS No.
Samurable Liquids	DOT: 3 - Flammable and	MISCELLANEOUS FLAMMABLES	Gallons	175	5	125		- Physical			
Filmmable Liquid, Class I-A Mage: 1 Grid: C8 Miscellane DUS LUBE DILS Mage: 1 Grid: C8 Mage: 1 Gri	Combustible Liquids				_	Pressue		Flammable			
Map: 1 Grid: C8		CAS NO			•		Waste Code	Physical Gas			
MiscellaneOus Lube Oils	Flammable Liquid, Class I-A	Man: 1 Grid: C8	· ·					Under Pressure			
MISCELLANEOUS LUBE OILS Gallors 200 S Storage Constance Map 1 Grid: C8 Map		map: 1 Charles		Davs on Site: 365							
Sale Storage Container Press Waste Code Not Otherwise Classified Clas				•							
CAS No. Days on Site: 365 Days		MISCELLANEOUS LUBE OILS	Gallons	200	5	150		•			
Liquid Other Mag: 1 Grid: C8 Mag: 1 Grid: C8 Mixture Days on Site: 365 Mag: 1 Grid: C8 Mag:		CAS No		Storage Container		Pressue	Waste Code				
Map: 1 Grid: C8 Map: 1 Grid: C8 Map: 2 Grid: C8 Map: 2 Grid: C8 Map: 3 Grid: C8 Map: 4 Grid: C8 Map: 6 Grid: C8 Map: 6 Grid: C8 Map: 6 Grid: C8 Map: 7 Grid: C8 Map: 7 Grid: C8 Map: 8 Grid: C8 Map: 8 Grid: C8 Map: 9 Grid: C8 Map: 9 Grid: C8 Map: 9 Grid: C8 Map: 9 Grid: C8 Map: 1 Grid: C8 Map: 1 Grid: C8 Map: 1 Grid: C8 Map: 1 Grid: C8 Map: 2 Grid			Liquid	Other		Ambient					
DOT: 8 - Corrosives (Liquids and Solids) ODT: 8 - Corrosives (Liquids and Solids) Map: 1		Map: 1 Grid: C8	Туре			Temperature					
ND-165			Mixture	Days on Site: 365		Ambient					
Corrosive Corr	DOT: 8 - Corrosives (Liquids and	ND 165	Callana	110		110					
Corrosive Map: 1 Grid: C8		ND-102			55			•			
Light Skin Skin Skin Skin Skin Skin Skin Skin	Soliday	CAS No			 o Drum		Waste Code				
Map: 1 Grid: C8 Type. Mixture Days on Site: 365 Map: 1 Grid: C8 Map:	Corrosive		1.	Plastic/Non-metali	c Drum			••••			
Mixture Days of Site: 365 Antibelit Irritation Health Serious Eye Damage Eye Irritation Health Specific Target Organ Toxicity DOT: 2.1 - Flammable Gases PROPANE Cu. Feet 100 15 75 - Physical Flammable Gas CAS NO. Temperature Ambient Apphydant LUBRICANT LUBRICANT LUBRICANT LUBRICANT LUGUI CAS NO. Map: 1 Grid: C8 Mixture Days on Site: 365 SHELL MORLINA S3 BA 100 Salte Liguid Steel Drum Map: 1 Grid: C8 Mixture Mixture Days on Site: 365 Storage Container Liquid Carboy Temperature Liquid Carboy Temperature Liquid Carboy Temperature Corrosion Irritation Pressue Waste Code Rammable Health Skinlo Corrosion Irritation Ambient Cassified Ambient Classified Classified Ambient Classified Classified Ambient Classified Classified Classified Classified Classified Ambient Classified Classified Classified Classified Ambient Classified Classified Classified Classified Classified Classified Ambient Classified Ambient Classified Classifie	651763176	Map: 1 Grid: C8		B 611 265							
Figure 1			Mixture	Days on Site: 365		Ambient					
Irritation Health Specific Target Organ Toxicity								- Health Serious			
DOT: 2.1 - Flammable Gases PROPANE Cu. Feet 100 15 75 - Physical Flammable Gas Flammable Gase Nap: 1 Grid: C8 Pure Days on Site: 365 ROTO Z FLUID MINERAL LUBRICANT CAS No. Type Mixture Days on Site: 365 SHELL MORLINA S3 BA 100 State Storage Container Carboy Map: 1 Grid: C8 SHELL TELLUS S2 MX32 Map: 1 Grid: C8 Map: 1 Grid: C8 SHELL TELLUS S2 MX32 Map: 1 Grid: C8 Map: 1 Grid: C8 Map: 1 Grid: C8 SHELL TELLUS S2 MX32 Map: 1 Grid: C8 Mixture Days on Site: 365 SHELL TELLUS S2 MX32 Map: 1 Grid: C8 Mixture Days on Site: 365 Map: 1 Grid: C8 Mixture Days on Site: 365 Mixture Days on Site: 3								Eye Damage Eye			
DOT: 2.1 - Flammable Gases PROPANE Cu. Feet 100 15 75 - Physical Flammable Gas Flammable Gas PROPANE CAS No 74-98-6 Map: 1 Grid: C8 ROTO Z FLUID MINERAL LUBRICANT Liquid Carboy Type Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL TELLUS S2 MX32 CAS No Map: 1 Grid: C8 SHELL TELLUS S2 MX32 CAS No Map: 1 Grid: C8 Map: 1 Grid: C8 Map: 1 Grid: C8 SHELL TELLUS S2 MX32 CAS No Map: 1 Grid: C8 Map: 1								Irritation			
DOT: 2.1 - Flammable Gases PROPANE CLI. Feet 100 15 75 - Physical Flammable Gas PROPANE CAS No T4-98-6 Map: 1 Grid: C8 Pure Days on Site: 365 State Storage Container LUBRICANT LUBRICANT CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 SHELL TELLUS S2 MX32 CAS No Map: 1 Grid: C8 SHELL TELLUS S2 MX32 CAS No Map: 1 Grid: C8 Map								- Health Specific			
PROPANE CAS No TA-98-6 Map: 1 Grid: C8 Pure Days on Site: 365 ROTO Z FLUID MINERAL LUBRICANT CAS No Map: 1 Grid: C8 Map:								Target Organ			
Flammable Gas CAS No 74-98-6 Gas Cylinder Ambient Cas No 74-98-6 Gas Cylinder Ambient Temperature Ambient Cas No 74-98-6 Gas Cylinder Cas No 74-98-6 Gas Cylinder Cas No 74-98-6 Cas No 74-98-6 Cas No 75-98-6 Cas No 7								Toxicity			
Flammable Gas Anbient Temperature Temperature Anbient Temperature Tempera	DOT: 2.1 - Flammable Gases	PROPANE	Cu. Fee	t 100	15	75		•			
Ambient - Friysted Jose Hammable Gas Type Days on Site: 365 Type Type Days on Site: 365 Type Type		CAS No	State	Storage Container		Pressue	Waste Code				
Map: 1 Grid: C8 ROTO Z FLUID MINERAL LUBRICANT LIquid Carboy Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 GAS No Map: 1 Grid: C8 SHELL TELLUS S2 MX32 GAS No Map: 1 Grid: C8 SHELL TELLUS S2 MX32 Map: 1 Grid: C8 Map: 1 Grid: C	Flammable Gas		Gas	Cylinder		Ambient	•••	•			
ROTO Z FLUID MINERAL LUBRICANT LIquid Carboy Map: 1 Grid: C8 Map: 1 Grid: C8 Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 Map: 1 Grid: C8 SHELL TELLUS S2 MX32 Gallons Map: 1 Grid: C8 SHELL TELLUS S2 MX32 Gallons Map: 1 Grid: C8 Mixture Days on Site: 365 Ambient Asphyxiant Pressue Waste Code Fressue Waste Code Naste Corrosion Irritation Fremperature Ambient Classified Ambient Classified Not Otherwise Classified Not Otherwise Classified Health Snipple Asphyxiant Fleath Sinnple Asphyxiant Fleath Skin Corrosion Irritation Value Corrosion Irritation Pressue Waste Code Ambient Classified Health Sinnple Asphyxiant Health Saphyxiant Physical Flammable - Health Skin Corrosion Irritation Not Otherwise Classified Health Serious Eye Damage Eye			Type			Temperature					
ROTO Z FLUID MINERAL LUBRICANT CAS NO Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 CAS NO Map: 1 Grid: C8 SHELL TELLUS S2 MX32 Map: 1 Grid: C8 Map: 1 Grid: C8		map: 1 Charles		Days on Site: 365		Ambient	•••	•			
LUBRICANT CAS NO Map: 1 Grid: C8 Map:											
LOBRICANI Liquid Carboy Type Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 Gallons State Liquid Steel Drum Map: 1 Grid: C8 SHELL TELLUS S2 MX32 Gallons SHELL TELLUS S2 MX32 Gallons State Liquid Steel Drum Map: 1 Grid: C8 SHELL TELLUS S2 MX32 Gallons State Liquid Steel Drum Map: 1 Grid: C8 State Map: 1 Grid: C8 State Mixture Days on Site: 365 SHELL TELLUS S2 MX32 Gallons State Storage Container Mixture Days on Site: 365 STATE Liquid Storage Container Mixture Days on Site: 365 STATE Storage Container Ambient Temperature Ambient Ambient Classified Not Otherwise Classified Classified Not Otherwise Classified Classified Classified Not Otherwise Classified Classified Health Skin Corrosion Irritation Hot Otherwise Classified Classified Classified Hot Otherwise Classified Classified Hot Otherwise Classified Hot Otherwise Classified Hot Otherwise Classified Health Skin Corrosion Irritation					5		:	Ela via de la la			
CAS No Map: 1 Grid: C8 Mixture Days on Site: 365 SHELL MORLINA S3 BA 100 Gallons 330 State Storage Container Liquid Steel Drum Map: 1 Grid: C8 Mixture Days on Site: 365 SHELL TELLUS S2 MX32 Gallons 165 State Storage Container Days on Site: 365 SHELL TELLUS S2 MX32 Gallons 165 State Storage Container Days on Site: 365 Map: 1 Grid: C8 Mixture Days on Site: 365 Temperature Corrosion Irritation Not Otherwise Classified Not		LUBRICANT				Pressue	Waste Code				
Map: 1 Grid: C8 SHELL MORLINA S3 BA 100 State Storage Container Liquid Steel Drum Temperature Ambient Classified		CAS No	•	Carboy							
SHELL MORLINA S3 BA 100 CAS No Map: 1 Grid: C8 State Storage Container Liquid Steel Drum Map: 1 Grid: C8 Mixture Days on Site: 365 SHELL TELLUS S2 MX32 Gallons 165 State Storage Container Days on Site: 365 SHELL TELLUS S2 MX32 Gallons 165 State Storage Container Days on Site: 365 STATE Storage Container Days on Site: 365 Type Mixture Days on Site: 365 SHELL TELLUS S2 MX32 Gallons 165 State Storage Container Days on Site: 365 Type Mixture Days on Site: 365 Ambient Classified Classified Not Otherwise Classified Not Otherwise Classified Not Otherwise Classified Health Serious Eye Damage Eye						Temperature					
CAS No CAS No Liquid Steel Drum Ambient Map: 1 Grid: C8 State Storage Container Liquid Steel Drum Ambient Map: 1 Grid: C8 SHELL TELLUS S2 MX32 CAS No CAS No CAS No Map: 1 Grid: C8 State Storage Container Days on Site: 365 State Storage Container Liquid Steel Drum Map: 1 Grid: C8 Type Mixture Days on Site: 365 Mixture Days on Site: 365 Mot Otherwise Classified Not Otherwise Classified - Physical Hazard Not Otherwise Classified - Health Serious Eye Damage Eye		Map: 1 Grid: C8	Mixture	Days on Site: 365							
CAS No Map: 1 Grid: C8 Map: 1 Grid: C8 Type Mixture Days on Site: 365 Map: 1 Grid: C8 Map: 1 Grid: C8 Map: 1 Grid: C8 Mixture Days on Site: 365 Map: 1 Grid: C8 Mixture Days on Site: 365 Map: 1 Grid: C8 Map: 1 Grid: C		SHELL MORLINA S3 BA 100	Gallons	330	55	220	<u> </u>				
Liquid Steel Drum Ambient Classified Map: 1 Grid: C8 Type Mixture Days on Site: 365 SHELL TELLUS S2 MX32 Gallons 165 Steel Drum Ambient Classified - Health Hazard Not Otherwise Classified - Physical Hazard Not Otherwise Classified - Pressue Maste Code Not Otherwise Classified Not Otherwise Classified - Health Serious Fressue Maste Code Not Otherwise Classified - Health Serious Fressue Maste Code Not Otherwise Classified - Health Serious Fressue Maste Code Not Otherwise Classified - Health Serious Fressue Maste Code Not Otherwise Classified - Health Serious Fremperature Mixture Days on Site: 365 Ambient Fremperature Mixture Days on Site: 365 Ambient						Pressue	Waste Code	Not Otherwise			
Map: 1 Grid: C8 Mixture Days on Site: 365 SHELL TELLUS S2 MX32 Gallons 165 State Storage Container Liquid Steel Drum Map: 1 Grid: C8 Map: 1 Grid: C8 Mixture Days on Site: 365 Not Otherwise Classified Not Otherwise Waste Code Not Otherwise Classified - Health Serious Eye Damage Eye		CHO INU						Classified			
Ambient Not Otherwise Classified SHELL TELLUS S2 MX32 Gallons 165 55 110 - Physical Hazard CAS No CAS No Liquid Steel Drum Ambient Classified Map: 1 Grid: C8 Mixture Days on Site: 365 Mixture Days on Site: 365 Ambient Not Otherwise Classified Not Otherwise Versue Waste Code Not Otherwise Classified - Health Serious Eye Damage Eye		Map: 1 Grid: C8	Type			Temperature					
SHELL TELLUS S2 MX32 Gallons 165 55 110 - Physical Hazard CAS No CAS No Liquid Steel Drum Ambient Classified Map: 1 Grid: C8 Mixture Days on Site: 365 Classified Not Otherwise Classified Not Otherwise Classified Not Classified - Health Serious Eye Damage Eye		,		Days on Site: 365							
CAS No State Storage Container Pressue Waste Code Classified Liquid Steel Drum Ambient Classified Map: 1 Grid: C8 Type Temperature Mixture Days on Site: 365 Ambient Eye Damage Eye				<u> </u>					1		1
CAS No Liquid Steel Drum Ambient Classified Map: 1 Grid: C8 Mixture Days on Site: 365		SHELL TELLUS S2 MX32	Gallons	165	55	110			I		
Liquid Steel Drum Ambient Classified Map: 1 Grid: C8 Type Temperature Eye Damage Eye Mixture Days on Site: 365 Ambient Eye Damage Eye		CAS No					Waste Code				
Map: 1 Grid: C8 Type Temperature Eye Damage Eye Mixture Days on Site: 365 Ambient			Liquid	Steel Drum		Ambient					
Mixture Days on Site: 365 Ambient ' ' '		Map: 1 Grid: C8									
			Mixture	Days on Site: 365		Ambient					

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CERS Business/Org. Los Est	eros Critical Energy Facility			Chemical Loca	ation			CERS ID	10096750	
acility Name Los Est	eros Critical Energy Facility			OIL STOR	AGE SKID			Facility ID	FA0256442	
800 THO	MAS FOON CHEW WY, San Jose 95134							Status	Submitted on 7/8/2	2025 12:14 PM
				Quantities		Annual Waste	Federal Hazard		zardous Components (For mixture only)	
OOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	SHELL TELLUS S2 MX46	Gallons	110	55	110		- Physical Hazard			
	CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise Classified			
		Liquid	Steel Drum		Ambient		- Health Serious			
	Map: 1 Grid: C8	Type			Temperature		Eye Damage Eye			
		Mixture	Days on Site: 365		Ambient		Irritation			
	SHELL TURBO J 32	Gallons	330	55	220		- Physical Hazard			
	CAS No	State	Storage Container		Pressue	Waste Code				
		Liquid	Steel Drum		Ambient		Classified			
	Map: 1 Grid: C8	Type			Temperature		 Health Hazard Not Otherwise 			
		Mixture	Days on Site: 365		Ambient		Classified			
OOT: 9 - Misc. Hazardous	SHELL TURBO T 32	Gallons	110	55	110		- Physical Hazard			
∕laterials	CAS No	State	Storage Container		Pressue		Not Otherwise			
	CAS NO	Liquid	Steel Drum		Ambient	Waste Code				
	Map: 1 Grid: H3	Туре			Temperature		- Health Skin			
		Mixture	Days on Site: 365		Ambient		Corrosion Irritation			
OOT: 3 - Flammable and	TURBINE OIL 500	Gallons	330	55	220		- Physical			
Combustible Liquids		State	Storage Container	33	Pressue		Flammable			
	CAS No	Liquid	Steel Drum		Ambient	Waste Code	Physical Hazard			
	Map: 1 Grid: C8	Туре			Temperature		Not Otherwise			
	·		Days on Site: 365		Ambient		Classified - Health			
							Reproductive			
							Toxicity			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Specific			
							Target Organ Toxicity			
OOT: 3 - Flammable and	TURBINE OIL TURBO 68	Gallons	330	55	220		- Physical	PETROLEUM HYDROTRE	ATED 98%	64742-54-7
Combustible Liquids		State	Storage Container		Pressue		Flammable	PARAFINIC		
	CAS No NA	Liquid	Steel Drum		Ambient	Waste Code	Health Hazard			
	Map: 1 Grid: C8	Туре			Temperature		Not Otherwise			
			Days on Site: 365		Ambient		Classified			

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		Hazardou	s Materials /	And Waste	s Inventor	y Matrix	Report				
CERS Business/Org. Facility Name	Los Esteros Critical Energy Facility Los Esteros Critical Energy Facility 800 THOMAS FOON CHEW WY, San Jose 95134			Chemical Loca		TOR #4 (A	MMONIA SOT	RAGE)	CERS ID Facility I	10096750 D FA0256442 Submitted on 7/8/	2025 12:14 PM
DOT Code/Fire Haz. (Class Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component N	lame	Hazardous Components (For mixture only) % Wt	EHS CAS No.
	USED OIL CAS No. 70514-12-4	Liquid C Type	773 torage Container other ays on Site: 365	773	600 Pressue Temperature	773 Waste Code	- Health Carcinogenicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity - Health Aspiration Hazard - Health Germ Cell Mutagenicity				

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			Hazardo	us Materials	And Waste	s Inventor	y Matrix	Report			
Facility Name	Los Estero	s Critical Energy Facility s Critical Energy Facility FOON CHEW WY, San Jose 95134			Chemical Loca PDC #1 (E	ntion NERSYS 4D	K-11 60 U	NITS)	•	10096750 FA0256442	/2025 42:44 DNA
	BOO THOWAS	100N CHEW W1, 3ai1103e 33134			Quantities		Annual Waste	Federal Hazard	Status I	Submitted on 7/8 Hazardous Component (For mixture only)	
DOT Code/Fire Haz. Cla		Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Solids)	Liquids and	NON-SPILLABLE LEAD-ACID BATTERY	Gallons State Liquid	840 Storage Container Other	14	840 Pressue < Ambient	Waste Code	- Physical Corrosive To Metal	LEAD, LEAD COMPON SULFURIC ACID	ENTS 60% 30%	7439-92-1 7664-93-9
Corrosive		CAS No Map: 1 Grid: E3	Туре	Days on Site: 365		Temperature < Ambient		- Health Skin Corrosion			
		iviap. 1 Gild. E3						Irritation - Health Serious Eye Damage Eye Irritation			

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		Hazardo	ous Materials	And Waste	s Inventory	y Matrix	Report		
Facility Name Los E	steros Critical Energy Facility steros Critical Energy Facility HOMAS FOON CHEW WY, San Jose 95134			Chemical Loca PDC #1 (H	otion	NC 333L 1	9 UNITS)	CERS ID Facility Status	10096750 ID FA0256442 Submitted on 7/8/2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Components (For mixture only) % Wt EHS CAS No.
DOT: 8 - Corrosives (Liquid Solids) Corrosive	CAS No Map: 1 Grid: E3	Liquid Type	Storage Container Other Days on Site: 365	2.52	41.8 Pressue < Ambient Temperature < Ambient	Waste Code	- Physical Flammable - Physical Explosive - Physical Corrosive To Metal - Health Carcinogenicity - Health Acute Toxicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity		

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			Hazardou	s Materials	And Waste	s Inventor	y Matrix	Report			
Facility Name	Los Estero	s Critical Energy Facility s Critical Energy Facility FOON CHEW WY, San Jose 95134			Chemical Loca	OPPECKE F	NC 66 L 1	9 UNITS)	CERS ID Facility II Status	10096750 FA0256442 Submitted on 7/8/	'2025 12:14 PM
DOT Code/Fire Haz. Cl	200	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Components (For mixture only) % Wt	EHS CAS No.
DOT: 8 - Corrosives Solids) Corrosive		NI-CAD BATTERY CAS No Map: 1 Grid: E3	Gallons State St Liquid O	11.97 orage Container ther ays on Site: 365	0.63	11.97 Pressue < Ambient Temperature < Ambient	Waste Cod	- Physical Corrosive To	component value	70.000	Elis Casillo.
								- Health Serious Eye Damage Eye Irritation			

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		Hazardo	us Materials /	And Waste	s Inventor	y Matrix	Report			
Facility Name Los Est	eros Critical Energy Facility eros Critical Energy Facility MAS FOON CHEW WY, San Jose 95134			Chemical Loca	tion ENERSYS 4	OX-11 60	UNITS)	CERS ID Facility II Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard	Component Name	Hazardous Component (For mixture only) % Wt	s EHS CAS No.
DOT: 8 - Corrosives (Liquids a Solids)		Gallons State		14	840 Pressue	Waste Cod	- Physical Corrosive To	LEAD, LEAD COMPON SULFURIC ACID		7439-92-1 ✓ 7664-93-9
Corrosive	CAS No Map: 1 Grid: F8	Туре	Days on Site: 365		< Ambient Temperature < Ambient		- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	332. 337618	30%	

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		Hazardo	ous Materials <i>i</i>	And Waste	s Inventor	y Matrix	Report			
Facility Name Los Ester	os Critical Energy Facility os Critical Energy Facility AS FOON CHEW WY, San Jose 95134			PDC #12 (ation ENERSYS 40	OX-11 60 (JNITS)	CERS ID Facility ID Status	10096750 FA0256442 Submitted on 7/8,	/2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	lazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids)		Gallon: State Liquid Type	s 840 Storage Container Other	14	840 Pressue < Ambient Temperature < Ambient	Waste Code	- Physical Corrosive To	LEAD, LEAD COMPONE SULFURIC ACID		7439-92-1 ✓ 7664-93-9

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			Hazardo	us Materials A	And Waste	s Inventor	y Matrix	Report			
Facility Name Los	s Esteros	Critical Energy Facility Critical Energy Facility FOON CHEW WY, San Jose 95134			Chemical Loca PDC #2 (E	NERSYS 4D	X-11 60 U	NITS)	CERS ID Facility II Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
					Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	S
DOT Code/Fire Haz. Class		Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liq Solids)	•	NON-SPILLABLE LEAD-ACID BATTERY		840 Storage Container Other	14	840 Pressue	····· Waste Code	- Physical Corrosive To • Metal	LEAD, LEAD COMPON SULFURIC ACID	IENTS 60% 30%	7439-92-1 ✓ 7664-93-9
Corrosive		CAS No	Туре	Days on Site: 365		< Ambient Temperature < Ambient		- Health Skin Corrosion			
		Map: 1 Grid: E8		24,000.000				Irritation - Health Serious Eye Damage Eye Irritation			

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		Hazardoı	us Materials	And Waste	s Inventor	y Matrix	Report			
Facility Name Los Este	ros Critical Energy Facility ros Critical Energy Facility IAS FOON CHEW WY, San Jose 95134			Chemical Loca PDC #3 (E	NERSYS 4D	X-11 60 U	NITS)	CERS ID Facility ID Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
				Quantities		Annual Waste	Federal Hazard	ŀ	Hazardous Component (For mixture only)	S
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids ar Solids)	d NON-SPILLABLE LEAD-ACID BATTERY		840 Storage Container Other	14	840 Pressue	Waste Code	- Physical Corrosive To Metal	LEAD, LEAD COMPONE	ENTS 60% 30%	7439-92-1 7 664-93-9
Corrosive	CAS No Map: 1 Grid: D8	Туре	Days on Site: 365		< Ambient Temperature < Ambient		- Health Skin Corrosion	001.0.mc/10.b	33/3	700.303
	Map. 1 Gild. 20						Irritation - Health Serious Eye Damage Eye Irritation			

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		Hazardo	ous Materials	And Waste	s Inventory	y Matrix	Report		
Facility Name Los Ester	os Critical Energy Facility os Critical Energy Facility AS FOON CHEW WY, San Jose 95134			Chemical Loca PDC #3 (H	otion	NC 333L 1	9 UNITS)	CERS ID Facility Status	10096750 ID FA0256442 Submitted on 7/8/2025 12:14 PM
DOT Code/Fire Haz. Class DOT: 8 - Corrosives (Liquids and Solids)	Common Name NI-CAD BATTERY CAS No		Storage Container	Quantities Largest Cont. 2.52	Avg. Daily 41.8 Pressue	Annual Waste Amount	Federal Hazard Categories - Physical Flammable	Component Name	Hazardous Components (For mixture only) % Wt EHS CAS No.
Corrosive	Map: 1 Grid: D8	Туре	Other Days on Site: 365		< Ambient Temperature < Ambient	Waste Code	- Physical Explosive - Physical Corrosive To Metal - Health Carcinogenicity - Health Acute Toxicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity		

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		Hazardou	s Materials	And Waste	s Inventor	y Matrix	Report			
acility Name Los Esteros	s Critical Energy Facility s Critical Energy Facility FOON CHEW WY, San Jose 95134			Chemical Loca	OPPECKE F	NC 66 L 1	9 UNITS)	CERS ID Facility II Status	10096750 FA0256442 Submitted on 7/8,	/2025 12:14 PM
OOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
	NI-CAD BATTERY CAS No Map: 1 Grid: D8	Gallons State St Liquid O	11.97 orage Container ther ays on Site: 365	0.63	11.97 Pressue < Ambient Temperature < Ambient	Waste Code	- Physical Corrosive To	Component Name	76 441	LIN GRUNU.

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		Hazardoı	us Materials	And Waste	s Inventor	y Matrix	Report			
Facility Name Los Este	ros Critical Energy Facility ros Critical Energy Facility AS FOON CHEW WY, San Jose 95134			Chemical Loca PDC #4 (E	NERSYS 4D	X-11 60 U	NITS)	CERS ID Facility ID Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
				Quantities		Annual Waste	Federal Hazard	ŀ	Hazardous Component (For mixture only)	S
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids an Solids)	NON-SPILLABLE LEAD-ACID BATTERY		840 Storage Container Other	14	840 Pressue	Waste Code	- Physical Corrosive To Metal	LEAD, LEAD COMPONE	ENTS 60% 30%	7439-92-1 7 664-93-9
Corrosive	CAS No Map: 1 Grid: D3	Туре	Days on Site: 365		< Ambient Temperature < Ambient		- Health Skin Corrosion	001.0.mc/10.b	33/2	700.000
	Map. 1 Gilu. DS		,				Irritation - Health Serious Eye Damage Eye Irritation			

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		Hazardo	ous Materials	And Waste	s Inventory	y Matrix	Report		
Facility Name Lo	os Esteros Critical Energy Facility os Esteros Critical Energy Facility OO THOMAS FOON CHEW WY, San Jose 95134			Chemical Loca PDC #4 (H	otion	NC 333L 1	9 UNITS)	CERS ID Facility Status	10096750 ID FA0256442 Submitted on 7/8/2025 12:14 PM
DOT Code/Fire Haz. Class	s Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Components (For mixture only) % Wt EHS CAS No.
DOT: 8 - Corrosives (Li Solids) Corrosive	Quids and NI-CAD BATTERY CAS No Map: 1 Grid: D3	Liquid Type	Storage Container Other Days on Site: 365	2.52	41.8 Pressue < Ambient Temperature < Ambient	Waste Code	- Physical Flammable - Physical Explosive - Physical Corrosive To Metal - Health Carcinogenicity - Health Acute Toxicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity		

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		Hazardous	s Materials	And Waste	s Inventor	y Matrix	Report			
Facility Name Los Estero	os Critical Energy Facility os Critical Energy Facility S FOON CHEW WY, San Jose 95134			Chemical Loca	OPPECKE F	NC 66 L 1	9 UNITS)	CERS ID Facility II Status	10096750 FA0256442 Submitted on 7/8/	2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Components (For mixture only) % Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids) Corrosive	NI-CAD BATTERY CAS No Map: 1 Grid: D3	Gallons State Str Liquid Of	11.97 orage Container ther ays on Site: 365	0.63	11.97 Pressue < Ambient Temperature < Ambient	Waste Code	- Physical Corrosive To	Component Name	76 W.C	ens casno.

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			Hazardo	us Materials	And Waste	s Inventor	y Matrix	Report			
Facility Name	Los Estero	s Critical Energy Facility s Critical Energy Facility FOON CHEW WY, San Jose 95134			Chemical Loca PDC #5 (E	ntion NERSYS 4D	K-11 60 U	NITS)	•	10096750 FA0256442 Submitted on 7/8	/2025 12.14 DNA
	SOU THOMAS	100N CHEW W1, 38H 303E 33134			Quantities		Annual Waste	Federal Hazard	Status I	Hazardous Component (For mixture only)	
DOT Code/Fire Haz. Cla		Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Solids)	(Liquids and	NON-SPILLABLE LEAD-ACID BATTERY	Gallons State Liquid	840 Storage Container Other	14	840 Pressue < Ambient	Waste Code	- Physical Corrosive To • Metal	LEAD, LEAD COMPON SULFURIC ACID	ENTS 60% 30%	7439-92-1 7664-93-9
Corrosive		CAS No Map: 1 Grid: F2	Туре	Days on Site: 365		Temperature < Ambient		- Health Skin Corrosion Irritation			
								- Health Serious Eye Damage Eye Irritation			

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	Hazardo	us Materials /	And Waste	s Inventor	y Matrix	Report			
os Critical Energy Facility os Critical Energy Facility					K-11 60 U	NITS)	CERS ID Facility ID	10096750 FA0256442	
5 FOON CHEW WY, San Jose 95134			Quantities		Annual Waste	Federal Hazard	Status I		
Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
NON-SPILLABLE LEAD-ACID BATTERY	State	Storage Container	14	840 Pressue	··· Waste Code	- Physical Corrosive To Metal	LEAD, LEAD COMPON SULFURIC ACID		7439-92-1 7664-93-9
Map: 1 Grid: E7	Туре					- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye		337	, , , , , , , , , , , , , , , , , , , ,
,	Common Name NON-SPILLABLE LEAD-ACID BATTERY CAS No	Common Name NON-SPILLABLE LEAD-ACID BATTERY CAS No Critical Energy Facility S FOON CHEW WY, San Jose 95134 Unit Gallons State Liquid Type Michael	Common Name Common Name Common Name Unit Max. Daily NON-SPILLABLE LEAD-ACID BATTERY CAS No Minture Page on Site 265	Chemical Local Energy Facility DISTRICT STOOM CHEW WY, San Jose 95134 Common Name Common Name Unit Max. Daily Largest Cont. NON-SPILLABLE LEAD-ACID BATTERY CAS No Type Mixture Days on Site 265	Chemical Energy Facility DIS Critical Energy Facility DIS FOON CHEW WY, San Jose 95134 Common Name Common Name Unit Max. Daily Largest Cont. Avg. Daily NON-SPILLABLE LEAD-ACID BATTERY CAS No CAS No Chemical Location PDC #7 (ENERSYS 4D) Quantities Quantities Avg. Daily Largest Cont. Avg. Daily Avg. Daily Other CAS No Temperature Application Application Application Chemical Location PDC #7 (ENERSYS 4D) Avg. Daily Avg. Daily Temperature Application Application Chemical Location PDC #7 (ENERSYS 4D) Avg. Daily Avg. Daily Application CAS No Chemical Location PDC #7 (ENERSYS 4D) Avg. Daily Avg. Daily Application CAS No Chemical Location PDC #7 (ENERSYS 4D) Avg. Daily Avg. Daily Application CAS No Chemical Location PDC #7 (ENERSYS 4D) Avg. Daily Avg. Daily Chemical Location Avg. Daily Avg. Daily Avg. Daily Chemical Location Avg. Daily Chemical Location Avg. Daily Avg. Daily Chemical Location	Chemical Location PDC #7 (ENERSYS 4DX-11 60 U) S FOON CHEW WY, San Jose 95134 Quantities Quantities Waste	S FOON CHEW WY, San Jose 95134 Tommon Name Unit Max. Daily BATTERY CAS No Map: 1 Grid: E7 PDC #7 (ENERSYS 4DX-11 60 UNITS) PDC #7 (ENERSYS 4DX-11 60 UNITS) Annual Waste Federal Hazard Annual Waste Federal Hazard Annual Waste Categories Pressue < Ambient Type Mixture Days on Site: 365 PT (ENERSYS 4DX-11 60 UNITS) Annual Waste Waste Federal Hazard Annual Waste Categories Corrosive To Waste Code Metal - Health Skin Corrosion Irritation - Health Serious	Common Name Unit Max. Daily Max. Daily BATTERY CAS No Map: 1 Grid: E7 Cas Critical Energy Facility Chemical Location Chemical Location Chemical Location PDC #7 (ENERSYS 4DX-11 60 UNITS) Facility ID Status Annual Waste Federal Hazard Amount Categories Component Name Component Name Component Name Annual Waste Federal Hazard Component Name Categories Component Name Corrosive To Liquid Other Liquid Other Type Mixture Days on Site: 365 Mixture Days on Site: 365 Cers ID Categories Annual Waste Federal Hazard Amount Categories Corrosive To Corrosive To Health Skin Corrosion Irritation - Health Serious Eye Damage Eye	Common Name Unit Max. Daily BATTERY CAS No Map: 1 Grid: E7 CERS ID COMMON CHEW WY, San Jose 95134 CHEMICAL Location CHEMICAL Location PDC #7 (ENERSYS 4DX-11 60 UNITS) PDC #7 (ENERSYS 4DX-11 60 UNITS) PAGUINTS) PAGUINTS) Facility ID FA0256442 Submitted on 7/8 Submitted on 7/8 Annual Waste Federal Hazard Component Name Unit Max. Daily Amount Categories Component Name Liquid Other CAS No Map: 1 Grid: E7 CAS No Mixture Days on Site: 365 CHEMICAL LOCATION AND Avg. Daily Amount Categories Corrosive To Waste Code Metal Corrosive To Waste Code Metal Corrosive To Waste Code Metal Corrosion Irritation - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye

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		Hazardou	ıs Materials	And Waste	s Inventory	y Matrix	Report			
Facility Name Los Estero	os Critical Energy Facility os Critical Energy Facility S FOON CHEW WY, San Jose 95134			Chemical Loca				Facility ID F		:/2025 12:14 PM
DOT Code/Fire Haz. Class DOT: 8 - Corrosives (Liquids and Solids) Corrosive	COMMON NAME CHEMTREAT RL124B CAS No	Liquid P Type	Max. Daily 165 Storage Container Plastic/Non-meta Days on Site: 365		Avg. Daily 110 Pressue Ambient Temperature Ambient	Annual Waste Amount Waste Code	Federal Hazard Categories - Physical Corrosive To Metal - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation		rdous Componen or mixture only) % Wt	EHS CAS No.
OOT: 8 - Corrosives (Liquids and Solids) Corrosive	CHEMTREAT RL9007 CAS No	Liquid P Type	165 Storage Container Plastic/Non-meta Days on Site: 365		110 Pressue Ambient Temperature Ambient	Waste Code	- Physical Corrosive To	Diethylenetriamine penta methylene phosphonic ac		22042-96-2

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		Hazardous	s Materials /	And Waste	s Inventor	y Matrix	Report			
Facility Name Los E	Esteros Critical Energy Facility Esteros Critical Energy Facility HOMAS FOON CHEW WY, San Jose 95134			Chemical Loca SECONDA	tion RY UNIT SU	JBSTATIO	N	CERS ID Facility II Status	10096750 • FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids	LUBRICATING OIL CAS No Map: 1 Grid: F4	Liquid Of Type	636 orage Container ther ays on Site: 365	636	636 Pressue Ambient Temperature Ambient	•••••	- Physical Flammable e Health Acute Toxicity			

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	,	Hazardo	ous Materials A	And Waste	s Inventory	y Matrix I	Report			
Facility Name Los Estero	os Critical Energy Facility os Critical Energy Facility S FOON CHEW WY, San Jose 95134			Chemical Loca				CERS ID Facility IE Status	10096750 FA0256442 Submitted on 7/8	:/2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Componen (For mixture only) % Wt	ts EHS CAS No.
DOT: 2.1 - Flammable Gases	ACETYLENE	Cu. Fee		139	437	0	- Physical	component runic	70 000	LIIO CAO ITO:
Unstable (Reactive), Class 2, Flammable Gas	CAS No 74-86-2 Map: 1 Grid: C7	State Gas Type Pure	Storage Container Cylinder Days on Site: 365		Pressue Ambient Temperature Ambient	Waste Code	Flammable - Physical Gas Under Pressure - Health Aspiration Hazard	l		
	AQUATENE 330GM	Gallons	75	5	55		- Health Acute	Dipropylene Glycol M	•	34590-94-8
	CAS No Map: 1 Grid: C7	State Liquid Type Mixture	Storage Container Carboy	•	Ambient Temperature Ambient	Waste Code	Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Triphosphoric Acid, Pe Salt Silicic Acid (h2sio3), D		7758-29-4 6834-92-0
DOT: 2.2 - Nonflammable Gases	ARGON, COMPRESSED	Cu. Fee	et 875	250	776		- Physical Gas			,
	CAS No 7440-37-1 Map: 1 Grid: C7	State Gas Type	Storage Container Cylinder	•	Pressue Ambient Temperature	Waste Code	Under Pressure - Health Aspiration Hazard			
	BAILEIGH COOLANT	Pure Gallons	Days on Site: 365 25	5	Ambient 25		- Health Skin			
	CAS No Map: 1 Grid: C7	State Liquid Type	Storage Container Other Days on Site: 365		Pressue Ambient Temperature Ambient	Waste Code	Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation			
	BLAST-O-LITE INDUSTRIAL BEADS	Gallons	35	5	35		- Health Skin			
	CAS No Map: 1 Grid: C7	State Solid Type	Storage Container Other		Pressue Ambient Temperature	Waste Code	Corrosion Irritation			
OOT: 3 - Flammable and	NAISCELL ANICOLIS EL ANANADI ES		Days on Site: 365	1	Ambient		- Physical			
Combustible Liquids	MISCELLANEOUS FLAMMABLES CAS No	Gallons State Liquid	Storage Container Can	.	75 Pressue Ambient	Waste Code	Flammable Health Acute			
	Map: 1 Grid: C7	Туре	Days on Site: 365		Temperature Ambient		Toxicity - Health Serious Eye Damage Eye Irritation			
OOT: 2.2 - Nonflammable Gases	NITROGEN	Cu. Fee	et 330	116	272		- Physical Gas			
	CAS No 7727-37-9 Map: 1 Grid: C7	State Gas Type Pure	Storage Container Cylinder Days on Site: 365		Pressue Ambient Temperature Ambient	Waste Code	Under Pressure - Health Serious Eye Damage Eye Irritation			

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		Hazardoı	us Materials /	And Waste	s Inventory	/ Matrix	Report			
Facility Name Los Estero	os Critical Energy Facility os Critical Energy Facility S FOON CHEW WY, San Jose 95134			Chemical Loca			CERS ID 10096750 Facility ID FA0256442 Status Submitted on 7/8/2025 12:14			
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases Oxidizing, Class 2	OXYGEN CAS No 7782-44-7 Map: 1 Grid: C7		t 785 Storage Container Cylinder	337	712 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Physical Oxidize - Health Hazard Not Otherwise Classified	r		
DOT: 2.2 - Nonflammable Gases	SULFUR HEXAFLUORIDE (SF6) CAS No 2551-62-4	Gas Type	t 172 Storage Container Cylinder Days on Site: 365	115	172 Pressue Ambient Temperature Ambient	Waste Cod	- Physical Gas Under Pressure - Health Simple Asphyxiant			, , ,

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			Hazardou	s Materials A	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org. Facility Name	Los Estero	s Critical Energy Facility s Critical Energy Facility FOON CHEW WY, San Jose 95134			Chemical Local	ntion / MCC ROO	MS		•	10096750 FA0256442 Submitted on 7/8	/2025 42 44 DN4
DOT Code/Fire Haz. (Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Status F	Hazardous Component (For mixture only) % Wt	
DOT: 2.2 - Nonflam	mable Gases	DUPONT HCFC-227 CAS No 431-89-0 Map: E8,D3,F8 Grid: E3,E7,C3,C5	Gas O Type	2910 torage Container other	468	2910 Pressue Ambient Temperature Ambient	Waste Cod	- Physical Gas Under Pressure - Health Respiratory Skin Sensitization	HEPTAFLUOROPROPA	NE 100%	431-89-0

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			Hazardou	us Materials /	And Waste	s Inventory	Matrix	Report			
CERS Business/Org. Facility Name	Los Ester	os Critical Energy Facility os Critical Energy Facility AS FOON CHEW WY, San Jose 95134			Chemical Loca STEAM TU	Ition JRBINE LUBI	E OIL RES	ERVOIR	CERS ID Facility I Status	10096750 • FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz.	Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 9 - Misc. Haz Materials	ardous	SHELL TURBO J 32 CAS No Map: 1 Grid: H3	Liquid C	10058 Storage Container Other Days on Site: 365	10058	10058 Pressue Ambient Temperature Ambient	Waste Cod	- Physical Hazard Not Otherwise Classified - Health Hazard Not Otherwise Classified			

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		Hazardo	us Materials	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org. Los Ester Facility Name Los Ester 800 THOM	Chemical Location STEAM TURBINE UNDERDECK						CERS ID 10096750 Facility ID FA0256442 Status Submitted on 7/8/2025 12:14 P			
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Componen (For mixture only) % Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gase		Pounds State Gas Type	1200 Storage Container Cylinder Days on Site: 365	100	1200 Pressue Ambient Temperature Ambient	Waste Cod	- Physical Gas		7,0 000	

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		Hazardo	us Materials /	And Waste	s Inventory	y Matrix	Report			
CERS Business/Org. Facility Name	Los Esteros Critical Energy Facility Los Esteros Critical Energy Facility			Chemical Loca	tion TRANSFORM	ЛER		CERS ID Facility II	10096750 FA0256442	
	800 THOMAS FOON CHEW WY, San Jose 95134							Status	Submitted on 7/8/	2025 12:14 PM
				Quantities		Annual Waste	Federal Hazard		Hazardous Components (For mixture only)	5
DOT Code/Fire Haz.	Class Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	DIELECTRIC OIL CAS No Map: 1 Grid: F2	Liquid Type	9010 Storage Container Other Days on Site: 365	9010	9010 Pressue Ambient Temperature Ambient	Waste Code	- Physical Hazard Not Otherwise Classified - Health Aspiration Hazard	ſ		

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		Hazardo	us Materials	And Waste	s Inventory	y Matrix	Report			
CERS Business/Org. Facility Name	Los Esteros Critical Energy Facility Los Esteros Critical Energy Facility 800 THOMAS FOON CHEW WY, San Jose 95134			Chemical Loca	tion WATER SEP	ARATOR	#3	CERS ID Facility Status	10096750 ID FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. (Class Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
	USED OIL CAS NO 70514-12-4	Liquid Type	384 Storage Container Other Days on Site: 365	384	250 Pressue < Ambient Temperature < Ambient	384 Waste Code	- Health - Carcinogenicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity - Health Aspiration Hazard - Health Germ Cell Mutagenicity			

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			Hazardo	ous Materials	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org.		s Critical Energy Facility			Chemical Loca				CERS ID	10096750	
Facility Name	lity Name Los Esteros Critical Energy Facility 800 THOMAS FOON CHEW WY, San Jose 95134					ARD (ENER	Facility ID FA0256442 Status Submitted on 7/8/2025 12:14 F				
					Quantities		Annual Waste	Federal Hazard	-	Hazardous Component (For mixture only)	s
DOT Code/Fire Haz. C	lass	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives Solids)	(Liquids and	NON-SPILLABLE LEAD-ACID BATTERY	Gallon: State	s 840 Storage Container	14	840 Pressue		- Physical Corrosive To	LEAD, LEAD COMPON	ENTS 60%	7439-92-1
Corrosive		CAS No	Liquid Type	Other	···	< Ambient Temperature	Waste Code	- Health Skin	SULFURIC ACID	30%	√ 7664-93-9
		Map: 1 Grid: B1		Days on Site: 365		< Ambient		Corrosion Irritation - Health Serious			
								Eye Damage Eye Irritation			

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		Hazardou	us Materials /	And Waste	s Inventory	y Matrix	Report			
Facility Name Los Estero	s Critical Energy Facility s Critical Energy Facility S FOON CHEW WY, San Jose 95134			Chemical Local	ARD (14 BRI	EAKERS)		CERS ID Facility II Status	10096750 FA0256442 Submitted on 7/8	/2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories		Hazardous Component (For mixture only) % Wt	
DOT: 2.2 - Nonflammable Gases	SULFUR HEXAFLUORIDE (SF6) CAS No 2551-62-4 Map: 1 Grid: B1	Cu. Feet State S Gas C Type		128	1280	Waste Code	- Physical Gas Under Pressure - Health Simple Asphyxiant	•		

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		Hazardo	us Materials	And Waste	s Inventor	y Matrix	Report			
Facility Name Los Este	ros Critical Energy Facility ros Critical Energy Facility MAS FOON CHEW WY, San Jose 95134			Chemical Loca TURBINE	PACKAGES			CERS ID Facility II Status	10096750 FA0256442 Submitted on 7/8,	/2025 12:14 PM
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gas		Pounds State Gas Type		100	4800	Waste Cod	- Physical Gas - Under Pressure - Health Respiratory Skin Sensitization - Health Simple Asphyxiant		70 ***	and and the

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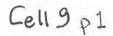
Appendix 8



Cooling Tower Inspection Checklist

Tower Location Metcalf Owner/Company Calpine Company Contact Signature Owner's Tower Designation Tower Manufacturer	Date Inspected Inspected by Inspector Signature May 13th through 25th Pat Mannion Serial No.									
Process Served by Tower	Operation: Continuous 🗆 Intermittent 🗆 Seasonal 🗅									
	°F CW °F WB °F									
Cell No. 10 Number of Fan Cells 10 Date Tower was installed Condition: 1–Good 2–Keep	34	rpe: Crossflow								
	1 2 3									
Structure	L									
Casing Material	X	Concrete basin fiberglass siding and stairs								
Structural Material	X	Fiberglass								
Fan Deck Material	X	Fiberglass								
Stairway	X	Fiberglass								
Ladder Material	X	Fiberglass								
Handrail	X	Fiberglass								
Interior Walkway Material		no interior walkway								
Cold Water Basin Material Silt, Debris Buildup	X	Concrete No excess silt or debris								
Nater Distribution System Open Basin System										
Distribution Basin Material	X	PVC								
Inlet Pipe Material	X	PVC								
Inlet Manifold Material	X	PVC								
Flow Control Valves Size	X	PVC								
Nozzles-Orifice Diameter Size	X	Replaced and or repaired many nozzles in all cell								
Silt, Algae, Debris	X	Plant was down for prolonged Outage, H20 to be								
Spray Type System	X	chemically treated when back in service								
Header Pipe Material										
Branch Pipe Material	X									
Nozzles–Orifice Diameter Size Up spray □ Down spray □	L X									
Heat Transfer Creaters										
Heat Transfer System	X	Fill is getting brittle, see attached pics of damage								
Fill-Type & Material Eliminators-Type & Material	Ŷ									
Eliminators—I ype & Material	X	Air operated plumb abatement louvers do not w								
Louvers-Type & Material										
Louvers-Type & Material Biological Fouling	X	somewhat normal build up on heat transfer coils								

echanical Equipment	1	2 3	Comments
	irect E		
Belt Drive Unit			
Belt DesignationN/A			
Fan Sheave Designation N/A			
Motor Sheave Designation N/A			
Gear Drive Unit			
Manufacturer MARLEY Mode	el Ri	100	0 566 Ratio
Oil Level: Full 🙀 Add Immediatel	у 🗆		Low, check again soon a scrial # 25
Oil Condition: Good 🗆 Contains Water	er 🗆	C	Contains Metal Contains Sludge
			heduled oil testing
Seals pinion seal leak		X	after inspection was complete, verified correct oil
Backlash		X	in gear box to correct level on site glass and topp
Fan Shaft Endplay		X	up all gearboxes to FULL mark on site glass
Unusual Noises? No 🗅 Yes 🗅	Acti	on Re	equired
Drive Shaft			
Manufacturer Material	X		carbon fiber shaft with flex plate couplings
Fan	14	ruse	heard when rotating shaft
Fan Type: Propeller 🗑 Blower 🗅			V
Manufacturer			itch Adjustable Pitch
Diameter	Ni	ımbei	r of Blades 10 see recorded
Shavelees			measurem
Blade Material fiberglass		X	heavy chemical build up (see pictu
Hub Material <u>aluminum</u>			0
Hub Cover Material <u>fiberglass</u>		X	
Blade Assembly Hardware stainless		X	
Tip Clearance min max			
Vibration Level			
Fan Cylinder Height			a/box support foundation beam OV
Mechanical Equipment Support		X	g/box support foundation beam OK
Mechanical Equipment Support Oil Fill and Drain Line		X	Secured all drain and breather lines in cell tower
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass		X	Secured all drain and breather lines in cell tower them vibrating
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch		X	Secured all drain and breather lines in cell tower
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor		X	Secured all drain and breather lines in cell tower them vibrating
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	x x	Secured all drain and breather lines in cell tower them vibrating did not test switch for trip
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP	RF	x x x	Secured all drain and breather lines in cell tower them vibrating did not test switch for trip Phase Hz Volts
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame	RF	x x x	Secured all drain and breather lines in cell tower them vibrating
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date	RF	x x x	Secured all drain and breather lines in cell tower them vibrating did not test switch for trip Phase Hz Volts
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type	RF	x x x	Secured all drain and breather lines in cell tower them vibrating did not test switch for trip Phase Hz Volts S F Special Info.
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type Unusual Noises? No	RF	x x x x PM	Secured all drain and breather lines in cell tower them vibrating did not test switch for trip Phase Hz Volts S F Special Info. Action Required
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type Unusual Noises? No	RF	x x x x x x x x x x x x x x x x x x x	Secured all drain and breather lines in cell tower them vibrating did not test switch for trip Phase Hz Volts SF_ Special Info. Action Required Action Required
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type Unusual Noises? No	RF	x x x x PM	Secured all drain and breather lines in cell tower them vibrating did not test switch for trip Phase Hz Volts SF_ Special Info. Action Required Action Required
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type Unusual Noises? No Unusual Vibration? Unusual Heat Build-up? No	RF	x x x x x x x x x x x x x x x x x x x	Secured all drain and breather lines in cell tower them vibrating did not test switch for trip Phase Hz Volts SF_ Special Info. Action Required Action Required
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Last Lubrication—Date Grease Used—Type Unusual Noises? No Unusual Vibration? Unusual Heat Build-up? No ke-up Valve	RF	x x x x x x x x x x x x x x x x x x x	Secured all drain and breather lines in cell tower them vibrating did not test switch for trip Phase Hz Volts S F Special Info. Action Required Action Required
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type Unusual Noises? No Unusual Vibration? Unusual Heat Build-up? No	RF	x x x x x x x x x x x x x x x x x x x	Secured all drain and breather lines in cell tower them vibrating did not test switch for trip Phase Hz Volts S F Special Info. Action Required Action Required Action Required Action Required





Cooling Tower Inspection Checklist

SM-CKLIST

Owner/Company Calpine			Date Inspected May 13th through 25th Inspected by Pat Mannion					
Company Contact								
Signature				2 marin				
Owner's Tower Designation								
Tower Manufacturer	Мо	del l	No.	Serial No.				
Process Served by Tower				Continuous Intermittent Seasonal				
				°F CW °F WB °F				
Cell No. 9 Number of Fan Cells 10				e: Crossflow Counterflow				
Date Tower was installed								
Condition: 1-Good 2-Keep	an e	ye o	n it	3-Needs immediate attention				
	1	2	3	Comments				
Structure								
Casing Material	X			Concrete basin fiberglass siding and stairs				
Structural Material	X			Fiberglass				
Fan Deck Material	X			Fiberglass				
Stairway	X			Fiberglass				
Ladder Material	X			Fiberglass				
Handrail Material	X			Fiberglass				
Interior Walkway Material				no interior walkway				
Cold Water Basin Material	X			Concrete				
Silt, Debris Buildup	X			No excess silt or debris				
Water Distribution System								
Open Basin System		, ,						
Distribution Basin Material		X		PVC				
Inlet Pipe Material		Х		PVC				
Inlet Manifold Material		X		PVC				
Flow Control Valves Size		X		PVC				
Nozzles-Orifice Diameter Size		X		Replaced and or repaired many nozzles in all cell				
Silt, Algae, Debris		X		Plant was down for prolonged Outage, H20 to be				
Spray Type System				chemically treated when back in service				
Header Pipe Material								
Branch Pipe Material								
Nozzles-Orifice Diameter Size								
Up spray ☐ Down spray ☐								
Heat Transfer System			Υ					
Fill-Type & Material		X		Fill is getting brittle, see attached pics of damage				
Eliminators-Type & Material								
			X	Air operated plumb abatement louvers do not w				
Louvers-Type & Material		X		somewhat normal build up on heat transfer coils				
Biological Fouling	L	21		position and the first party appearance and the control of the				
	L	I	1,	portion at the man said up of the at a thorough				

Condition: 1—Good 2—Keep an eye on it 3—Needs immediate attention

Mechanical Equipment		2 3	
X	Direct D)rive	
Belt Drive Unit			
Belt DesignationN/A			
Fan Sheave Designation N/A			
Motor Sheave Designation N/A	. [
Gear Drive Unit	u	1	Miles
Manufacturer Amarillo Mode	el Ma	rtey	M4000 Ratio 15.84:1
Oil Level: Full Add Immediatel	- To 12	•	Low, check again soon M604
Oil Condition: Good Contains Water	er 🗆	C	ontains Metal Contains Sludge Seriel
Oil Type Used Oil is sen			heduled oil testing
Seals		×_	after inspection was complete, verified correct oil lev
Backlash		X	in gear box to correct level on site glass and topped
Fan Shaft Endplay		X	up all gearboxes to FULL mark on site glass
Unusual Noises? No 🗆 Yes 🗅	Actio	on Re	equired
Drive Shaft			
Manufacturer Material	X		carbon fiber shaft with flex plate couplings
Fan			
Fan Type: Propeller 📝 Blower 🗅			
Manufacturer	Fi	xed P	itch Adjustable Pitch Adjustable
Diameter	Nu	umbei	of Blades /0
Blade Material fiberglass			
Hub Material aluminum		X	
Hub Cover Material fiberglass		X	
Blade Assembly Hardware stainless		X	
Tip Clearance " min " max			
Vibration Level			
Fan Cylinder Height			
Mechanical Equipment Support	,	8	g/box support foundation beam OK
Oil Fill and Drain Line		X	Secured all drain and breather lines in cell tower to
Oil Level Sight Glass		X	them vibrating
Vibration Limit Switch		X	did not test switch for trip
Motor			
Manufacturer			
Name Plate Data: HP	RP	PM	Phase Hz Volts
F L Amps Frame			S F Special Info
Last Lubrication Data			
Grease Used—Type			
Unusual Noises? No 🗅	Y	es 🗅	Action Required
Unusual Vibration?		es 🗆	
Unusual Heat Build-up?		es 🗆	
Make-up Valve			
Other Component			
Other Component		-	

Marley

Cell 8 p 1 Cooling Tower Inspection Checklist

SM-CKLIST

Tower Location Metcalf		Date Inspected May 13th through 25th					
Owner/Company Calpine	Inspected by Pat Mannion						
Company Contact	Inspect	Inspector					
Signature		ure	Pat Manne				
Owner's Tower Designation							
Tower Manufacturer	Model	No.	Serial No.				
Process Served by Tower	Operat	ion:	Continuous Intermittent Seasonal				
Design Conditions: GPM HW _			°F CW°F WB°F				
Cell No. 8 Number of Fan Cells 10	Tower		e: Crossflow Counterflow				
Date Tower was installed							
	1						
Condition: 1-Good 2-Keep	an eye o	n it	3-Needs immediate attention				
	1 2	3	Comments				
Structure			£				
Casing Material	X		Concrete basin fiberglass siding and stairs				
Structural Material	X		Fiberglass				
Fan Deck Material	X		Fiberglass				
Stairway	X		Fiberglass				
Ladder	X		Fiberglass				
Handrail Material	X		Fiberglass				
Interior Walkway Material			no interior walkway				
Cold Water Basin Material	X		Concrete				
Silt, Debris Buildup	X		No excess silt or debris				

Water Distribution System							
Open Basin System							
Distribution Basin Material	X		PVC				
Inlet Pipe Material	X		PVC				
Inlet Manifold Material	X		PVC				
Flow Control Valves Size	X		PVC				
Nozzles-Orifice Diameter Size	X		Replaced and or repaired many nozzles in all cel				
Silt, Algae, Debris	X		Plant was down for prolonged Outage, H20 to be				
Spray Type System			chemically treated when back in service				
Header Pipe Material	X						
Branch Pipe Material	X						
Nozzles-Orifice Diameter Size	X						
Up spray □ Down spray □	L. Jimila						
CONTRACT TO THE SECRET OF THE SECRET							
Heat Transfer System							
	X		Fill is getting brittle, see attached pics of damage				
Fill-Type & Material	X		-laboralese				
Fill-Type & Material Eliminators-Type & Material		X	Air operated plumb abatement louvers do not w				
Eliminators-Type & Material							
	X		somewhat normal build up on heat transfer coils				

CELL8 PZ

Condition: 1—Good 2—Keep an eye on it 3—Needs immediate attention

Mechanical Equipment	1	2 3	Comments
• •	Direct I		
Belt Drive Unit			
Belt DesignationN/A			
Fan Sheave Designation N/A			
Motor Sheave Designation N/A			
Gear Drive Unit			
Manufacturer Mod	del		Ratio
Oil Level: Full 🙀 Add Immediate			
Oil Condition: Good Contains Water	er 🗆	(Contains Metal Contains Sludge
Oil Type Used Oil is sen	nt out	for so	cheduled oil testing
Seals		X	
Backlash		X	in gear box to correct level on site glass and toppe
Fan Shaft Endplay		X	up all gearboxes to FULL mark on site glass
Unusual Noises? No 🦅 Yes □	Act	tion R	equired
Drive Shaft			
Manufacturer Material	X		carbon fiber shaft with flex plate couplings
Fan			
Fan Type: Propeller 🛦 Blower 🗅			
Manufacturer	F	ixed I	Pitch Adjustable Pitch
Diameter	N	lumbe	er of Blades/
Blade Material fiberglass		x	starting to deteriorate see frete
Hub Material <u>aluminum</u>		X	0
Hub Cover Materialfiberglass		Х	
Blade Assembly Hardware stainless		X	
Tip Clearance" min" max			
Vibration Level			
Fan Cylinder Height			
Mechanical Equipment Support			g/box support foundation beam OK
Oil Fill and Drain Line		X	Secured all drain and breather lines in cell tower to
Oil Level Sight Glass		Х	them vibrating
Vibration Limit Switch		Х	did not test switch for trip
Motor	Y		
Manufacturer	25		
Name Plate Data: HP		PM_	
F L Amps Frame			S F Special Info
Last Lubrication—Date			
Grease Used—Type			
Unusual Noises? No 📮	1	Yes [
Unusual Vibration?	3	Yes [Action Required
		Access of	
Unusual Heat Build-up? No □		Yes [
Unusual Heat Build-up? No 🗖 Make-up Valve Other Component			



$\begin{array}{c} \text{CeN7}_{\,\,\text{P}\,\,\text{I}} \\ \text{Cooling Tower Inspection Checklist} \end{array}$

SM-CKLIST

Tower Location Metcalf	Date Inspected May 13th through 25th				
Owner/Company <u>Calpine</u>	nspected by Pat Mannion				
Company Contact	Inspector				
Signature	Signature Rak Memma				
Owner's Tower Designation					
Tower Manufacturer	Model No. Serial No.				
Process Served by Tower					
	°F CW°F WB°F				
Cell No Number of Fan Cells Date Tower was installed	Tower Type: Crossflow ☐ Counterflow ☐				
Condition: 1-Good 2-Keep	an eye on it 3-Needs immediate attention				
0	1 2 3 Comments				
Structure Cooling Material	x Concrete basin fiberglass siding and stairs				
Casing Material Structural Material	V Pusselses				
	X Fiberglass X Fiberglass				
Fan Deck Material	x Fiberglass				
Stairway	y Eiborglass				
F1717(10) F14	X Fiberglass				
Handrail □ Material Interior Walkway □ Material					
Cold Water Basin Material	x Concrete				
Silt, Debris Buildup	X No excess silt or debris				
Water Distribution System Open Basin System					
Distribution Basin Material	x PVC				
Inlet Pipe Material	x PVC				
Inlet Manifold Material	A				
Flow Control Valves Size	^				
Nozzles-Orifice Diameter Size	Treplaced and of repaired many nozzies in all cer				
Silt, Algae, Debris	X Plant was down for prolonged Outage, H20 to be				
Spray Type System	chemically treated when back in service				
Header Pipe Material AS plastic	8				
Branch Pipe Material	×				
Nozzles-Orifice Diameter Size	X				
Up spray ☐ Down spray ☐					
Heat Transfer System					
Fill-Type & Material	X Fill is getting brittle, see attached pics of damage				
Eliminators-Type & Material	* feberaless				
Louvers-Type & Material	x Air operated plumb abatement louvers do not w				
Biological Fouling	x somewhat normal build up on heat transfer coils				
Use this space to list specific items needing attention:					

Cell tp2 Mechanical Equipment 1 2 3 Comments Speed Reducer Type: Direct Drive 🗆 Belt 🗆 Gear 😡 **Belt Drive Unit** N/A Belt Designation Fan Sheave Designation N/A Motor Sheave Designation N/A **Gear Drive Unit** Manufacturer Marley label unreadable. Model Ratio Oil Level: Add Immediately Low, check again soon 🗅 Oil Condition: Contains Water Contains Metal Good Contains Sludge Oil Type Used Oil is sent out for scheduled oil testing Seals after inspection was complete, verified correct oil level in gear box to correct level on site glass and topped Backlash up all gearboxes to FULL mark on site glass Fan Shaft Endplay Unusual Noises? No 🗆 Yes 🗅 Action Required **Drive Shaft** carbon fiber shaft with flex plate couplings Manufacturer Material Fan Fan Type: Propeller Blower 🗆 Fixed Pitch 🗅 Manufacturer Adjustable Pitch 🗅 Diameter Number of Blades fiberglass sterling to deteriorate Blade Material X **Hub Material** aluminum Hub Cover Material fiberglass X stainless Blade Assembly Hardware Tip Clearance _ " min " max Vibration Level Fan Cylinder Height g/box support foundation beam OK Mechanical Equipment Support Secured all drain and breather lines in cell tower to stop X Oil Fill and Drain Line them vibrating X Oil Level Sight Glass did not test switch for trip Vibration Limit Switch Motor Manufacturer ____ Hz ____ Volts _ Phase _ Name Plate Data: F L Amps S F Special Info. Frame Last Lubrication—Date Grease Used-Type Unusual Noises? No 🗆 Yes 🗆 Action Required Unusual Vibration? No 🖸 Yes 🗆 Action Required Unusual Heat Build-up? No 🗆 Yes 🗆 Action Required Make-up Valve Other Component Other Component

Condition: 1-Good 2-Keep an eye on it 3-Needs immediate attention



Cooling Tower Inspection Checklist Cell 6 p1

May 13th through 25th Pat Mannion Serial No. Intinuous Intermittent Seasonal V Seasonal Frossflow Counterflow
Serial No. ntinuous
Serial No. ntinuous □ Intermittent □ Seasonal □ N°F WB°F
Serial No. ntinuous
ntinuous
V°F WB°F
eds immediate attention
Comments
rete basin fiberglass siding and stairs
erglass
erglass
berglass
perglass
berglass
erior walkway
ncrete
excess silt or debris
ced and or repaired many nozzles in all cell
was down for prolonged Outage, H20 to be
cally treated when back in service
getting brittle, see attached pics of damage
resoluse
_

Cell 6 p2

Condition: 1—Good 2—Keep an eye on it 3—Needs immediate attention

Mechanical Equipment	1 2	3 Comments
	Direct Drive	
Belt Drive Unit		
Belt Designation N/A		
Fan Sheave Designation N/A		
Motor Sheave Designation N/A		
Gear Drive Unit		
Manufacturer Mod	lel	Ratio
Oil Level: Full 🙀 Add Immediate		
Oil Condition: Good Contains Water	er 🗅	Contains Metal Contains Sludge
Oil Type Used Oil is ser	nt out for s	scheduled oil testing
Seals		after inspection was complete, verified correct oil le
Backlash	X	in gear box to correct level on site glass and toppe
Fan Shaft Endplay	X	up all gearboxes to FULL mark on site glass
Unusual Noises? No 🗆 Yes 🗅	Action F	Required
Drive Shaft		
Manufacturer Material	X	carbon fiber shaft with flex plate couplings
Fan		
Fan Type: Propeller Blower		
Manufacturer	Fixed	Pitch Adjustable Pitch
Diameter	Numb	er of Blades
Blade Material fiberglass	X	
Blade Material fiberglass Hub Material aluminum	×	
Hub Material <u>aluminum</u> Hub Cover Material <u>fiberglass</u>	X	
Hub Material <u>aluminum</u> Hub Cover Material <u>fiberglass</u> Blade Assembly Hardware <u>stainless</u>	1,000	
Hub Material <u>aluminum</u> Hub Cover Material <u>fiberglass</u> Blade Assembly Hardware <u>stainless</u> Tip Clearance <u>" min _ " max</u>	X	
Hub Material <u>aluminum</u> Hub Cover Material <u>fiberglass</u> Blade Assembly Hardware <u>stainless</u> Tip Clearance <u>" min _ " max</u> Vibration Level	X	
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min "max Vibration Level Fan Cylinder Height	×	OK
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min "max Vibration Level Fan Cylinder Height Mechanical Equipment Support	×	g/box support foundation beam OK
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min "max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line	× × × × × × × × × × × × × × × × × × ×	g/box support foundation beam OK bolts we Secured all drain and breather lines in cell tower to
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min "max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass	× × × × × × × × × ×	g/box support foundation beam OK boltz we Secured all drain and breather lines in cell tower to them vibrating
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min "max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch	× × × × × × × × × × × × × × × × × × ×	g/box support foundation beam OK bolts we Secured all drain and breather lines in cell tower to
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min "max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor	× × × × × × × × × ×	g/box support foundation beam OK boltz we Secured all drain and breather lines in cell tower to them vibrating
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min "max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer	X X X X X	g/box support foundation beam OK bolts we Secured all drain and breather lines in cell tower to them vibrating did not test switch for trip
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP	X X X X X	g/box support foundation beam OK Secured all drain and breather lines in cell tower to them vibrating did not test switch for trip Phase Hz Volts
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP Frame	X X X X X	g/box support foundation beam OK Secured all drain and breather lines in cell tower to them vibrating did not test switch for trip Phase Hz Volts
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min "max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date	X X X X X	g/box support foundation beam OK Secured all drain and breather lines in cell tower to them vibrating did not test switch for trip Phase Hz Volts
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type	X X X X X	g/box support foundation beam OK Secured all drain and breather lines in cell tower to them vibrating did not test switch for trip Phase Hz Volts S F Special Info.
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min "max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type Unusual Noises? No	X X X X X X X X Y	g/box support foundation beam OK Secured all drain and breather lines in cell tower to them vibrating did not test switch for trip Phase Hz Volts S F Special Info.
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type Unusual Noises? No	X X X X X X X X Yes	g/box support foundation beam OK Secured all drain and breather lines in cell tower to them vibrating did not test switch for trip Phase Hz Volts SF Special Info. Action Required Action Required
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min "max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type Unusual Noises? No □	X X X X X X X X Y	g/box support foundation beam OK Secured all drain and breather lines in cell tower to them vibrating did not test switch for trip Phase Hz Volts SF Special Info. Action Required Action Required
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min "max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type Unusual Noises? No □ Unusual Heat Build-up? No □	X X X X X X X X X Yes Yes Yes	g/box support foundation beam OK Secured all drain and breather lines in cell tower to them vibrating did not test switch for trip Phase Hz Volts SF Special Info. Action Required Action Required
Hub Material aluminum Hub Cover Material fiberglass Blade Assembly Hardware stainless Tip Clearance "min max Vibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Name Plate Data: HP F L Amps Frame Last Lubrication—Date Grease Used—Type Unusual Noises? No	X X X X X X X X X X X X X X X X X X X	g/box support foundation beam OK Secured all drain and breather lines in cell tower to them vibrating did not test switch for trip Phase Hz Volts SF Special Info. Action Required Action Required



Cooling Tower Inspection Checklist Cell 5 5 1

Tower Location Metcalf	Date Inspected May 13th through 25th					
Owner/Company Calpine	Inspected by Pat Mannion Inspector Signature					
Company Contact						
Signature						
Owner's Tower Designation	3					
Tower Manufacturer	-Model No.	Serial No.				
		Continuous D Intermittent D Seasonal D				
Design Conditions: GPM HW _		°F CW°F WB°F				
Cell No Number of Fan Cells Date Tower was installed		pe: Crossflow				
Condition: 1-Good 2-Keep	an eye on i	t 3-Needs immediate attention				
	1 2 3	Comments				
Structure	x	Concrete basin fiberaless sidies and stairs				
Casing Material	X	Concrete basin fiberglass siding and stairs				
Structural Material		Fiberglass				
Fan Deck Material	X	Fiberglass Fiberglass				
Stairway Material	X	Fiborglass				
Ladder Material	X	Fiberglass				
Handrail Material Material	X					
Interior Walkway Material Material	X	no interior walkway Concrete				
Cold Water Basin Material Silt, Debris Buildup	X	No excess silt or debris				
Vater Distribution System Open Basin System Distribution Basin Material	X	PVC				
I Maria Cara Cara Cara Cara Cara Cara Cara	X	PVC				
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PVC				
Inlet Manifold Material Flow Control Valves Size	X	PVC				
Nozzles-Orifice Diameter Size	X	Replaced and or repaired many nozzles in all cell				
Silt, Algae, Debris	X	Plant was down for prolonged Outage, H20 to be				
Spray Type System		chemically treated when back in service				
Header Pipe Material	18					
Branch Pipe Material	8					
Nozzles-Orifice Diameter Size	X					
Up spray 🖸 Down spray 🗔						
Heat Transfer System						
Fill-Type & Material	X	Fill is getting brittle, see attached pics of damage				
Eliminators-Type & Material	X	feberglass				
Louvers-Type & Material	X	Air operated plumb abatement louvers do not we				
Biological Fouling	X	somewhat normal build up on heat transfer coils				
Jse this space to list specific items needing attention:						

2 3 Mechanical Equipment Comments Speed Reducer Type: Belt 🗆 Direct Drive 🗅 Gear 😡 **Belt Drive Unit** Belt Designation N/A Fan Sheave Designation N/A N/A Motor Sheave Designation **Gear Drive Unit** Model 0567 C68358 Manufacturer Oil Level: Add Immediately Low, check again soon 📮 Oil Condition: Contains Water Good 🗆 Contains Metal Contains Sludge Oil Type Used Oil is sent out for scheduled oil testing Seals after inspection was complete, verified correct oil level in gear box to correct level on site glass and topped Backlash up all gearboxes to FULL mark on site glass Fan Shaft Endplay Unusual Noises? Action Required No ☐ Yes ☐ **Drive Shaft** carbon fiber shaft with flex plate couplings Manufacturer Material Fan Type: Propeller Blower 🔾 Manufacturer Fixed Pitch 🗅 Adjustable Pitch 🗅 Diameter Number of Blades fiberglass Blade Material Χ **Hub Material** aluminum Hub Cover Material X fiberglass X Blade Assembly Hardware stainless Tip Clearance " min " max Vibration Level Fan Cylinder Height g/box support foundation beam OK Mechanical Equipment Support Secured all drain and breather lines in cell tower to stop X Oil Fill and Drain Line them vibrating X Oil Level Sight Glass did not test switch for trip Vibration Limit Switch Motor Manufacturer Name Plate Data: HP RPM Phase Hz Volts F L Amps Special Info. Frame Last Lubrication—Date Grease Used-Type Unusual Noises? No 🔾 Yes 🗆 Action Required Unusual Vibration? No 🗅 Yes 🗆 Action Required Unusual Heat Build-up? No O Yes D Action Required Make-up Valve Other Component Other Component

Condition: 1—Good 2—Keep an eye on it 3—Needs immediate attention



Cell4 p1 Cooling Tower Inspection Checklist

	Inspected by Pat Mannion					
ompany Contact	Inspector					
ignature	Signatu	re .				
wner's Tower Designation						
ower Manufacturer		200	Serial No.			
rocess Served by Tower	-0.5047-1-505200-55		Continuous 🔾 Intermittent 🔾 Seasonal 🔾			
esign Conditions: GPM HW _						
tell No Number of Fan Cellsate Tower was installed	Tower	Тур	e: Crossflow 🗆 Counterflow 🗅			
Condition: 1-Good 2-Keep			3-Needs immediate attention			
	1 2	3	Comments			
tructure			Concrete hasin fiboraless sidies and station			
Casing Material	X		Concrete basin fiberglass siding and stairs			
Structural Material			Fiberglass			
Fan Deck Material	X		Fiberglass Fiberglass			
Stairway Material	X		Fiborglass			
Ladder Material	X		Fiberglass			
Handrail Material Meterial	X					
Interior Walkway Material Material	X		no interior walkway Concrete			
Cold Water Basin Material Silt, Debris Buildup	X		No excess silt or debris			
Vater Distribution System Open Basin System			D) (0			
Distribution Basin Material	X		PVC PVC			
	X		PVC			
Inlet Pipe Material	200		1 00			
Inlet Pipe Material Inlet Manifold Material	X		DVC			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size	X		PVC			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles-Orifice Diameter Size	X		Replaced and or repaired many nozzles in all cell			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles-Orifice Diameter Size Silt, Algae, Debris			Replaced and or repaired many nozzles in all cells Plant was down for prolonged Outage, H20 to be			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles-Orifice Diameter Size Silt, Algae, Debris Spray Type System	X		Replaced and or repaired many nozzles in all cell			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles-Orifice Diameter Size Silt, Algae, Debris Spray Type System Header Pipe Material	X		Replaced and or repaired many nozzles in all cells Plant was down for prolonged Outage, H20 to be			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles-Orifice Diameter Size Silt, Algae, Debris Spray Type System Header Pipe Material Branch Pipe Material	×		Replaced and or repaired many nozzles in all cells Plant was down for prolonged Outage, H20 to be			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles—Orifice Diameter Size Silt, Algae, Debris Spray Type System Header Pipe Material Branch Pipe Material Nozzles—Orifice Diameter Size	X		Replaced and or repaired many nozzles in all cells Plant was down for prolonged Outage, H20 to be			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles-Orifice Diameter Size Silt, Algae, Debris Spray Type System Header Pipe Material Branch Pipe Material	×		Replaced and or repaired many nozzles in all cells Plant was down for prolonged Outage, H20 to be chemically treated when back in service			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles-Orifice Diameter Size Silt, Algae, Debris Spray Type System Header Pipe Material Branch Pipe Material Nozzles-Orifice Diameter Size Up spray Down spray	× × ×		Replaced and or repaired many nozzles in all cells Plant was down for prolonged Outage, H20 to be chemically treated when back in service			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles-Orifice Diameter Size Silt, Algae, Debris Spray Type System Header Pipe Material Branch Pipe Material Nozzles-Orifice Diameter Size Up spray Down spray Heat Transfer System Fill-Type & Material	×		Replaced and or repaired many nozzles in all cells Plant was down for prolonged Outage, H20 to be chemically treated when back in service			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles-Orifice Diameter Size Silt, Algae, Debris Spray Type System Header Pipe Material Branch Pipe Material Nozzles-Orifice Diameter Size Up spray Down spray Heat Transfer System Fill-Type & Material Eliminators-Type & Material	× × ×		Replaced and or repaired many nozzles in all cell Plant was down for prolonged Outage, H20 to be chemically treated when back in service Fill is getting brittle, see attached pics of damage			
Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles-Orifice Diameter Size Silt, Algae, Debris Spray Type System Header Pipe Material Branch Pipe Material Nozzles-Orifice Diameter Size Up spray Down spray Heat Transfer System Fill-Type & Material	× × ×	X	Replaced and or repaired many nozzles in all cells Plant was down for prolonged Outage, H20 to be chemically treated when back in service			

Condition: 1-Good 2-Keep an eye on it 3-Needs immediate attention Mechanical Equipment Comments Speed Reducer Type: Belt 🗅 Direct Drive 📮 Gear 😡 **Belt Drive Unit** Belt Designation N/A Fan Sheave Designation N/A Motor Sheave Designation N/A 2358 Ratio Label unreadable
Low, check again soon - can only read first and
ontains Metal - Contains Sludge - last number Gear Drive Unit 4000 nmm 68358 Manufacturer P Oil Level: J Add Immediately Oil Condition: Good 🗆 Contains Water 🗅 Contains Metal Oil Type Used Oil is sent out for scheduled oil testing Seals after inspection was complete, verified correct oil level in gear box to correct level on site glass and topped Backlash up all gearboxes to FULL mark on site glass Fan Shaft Endplay Unusual Noises? No 🖸 Yes 🗅 Action Required **Drive Shaft** carbon fiber shaft with flex plate couplings Manufacturer Material Fan Propeller 🛋 Fan Type: Blower 🔾 Manufacturer Fixed Pitch Adjustable Pitch Q Diameter Number of Blades fiberglass Blade Material X **Hub Material** aluminum X Hub Cover Material fiberglass Blade Assembly Hardware Tip Clearance Vibration Level Fan Cylinder Height g/box support foundation beam OK Mechanical Equipment Support Secured all drain and breather lines in cell tower to stop X Oil Fill and Drain Line them vibrating X Oil Level Sight Glass X did not test switch for trip Vibration Limit Switch Motor Manufacturer Phase ____ Hz ___ Volts _ RPM Name Plate Data: HP S F Special Info. F L Amps Frame Last Lubrication—Date Grease Used-Type Unusual Noises? No 🗆 Yes 🗆 Action Required Unusual Vibration? No 🗆 Yes 🗆 Action Required Unusual Heat Build-up? No 🗆 Yes 🗆 Action Required Make-up Valve Other Component Other Component



Cell 3 pl

Cooling Tower Inspection Checklist

Tower Location Metcalf Date Inspected May 13th through 25th Pat Mannion Owner/Company Calpine Inspected by Company Contact Inspector Signature Signature Owner's Tower Designation Tower Manufacturer Serial No. Model No. Process Served by Tower Operation: Continuous

Intermittent Seasonal HW Design Conditions: °F CW °F WB **GPM** Cell No. Number of Fan Cells Tower Type: Crossflow Counterflow Date Tower was installed Condition: 1-Good 2-Keep an eye on it 3-Needs immediate attention 2 3 Comments Structure Casing Material Concrete basin fiberglass siding and stairs Fiberglass Structural Material Fiberglass Fan Deck Material Fiberglass Stairway

Material Fiberglass Ladder □ Material Fiberglass Handrail

Material Interior Walkway

Material no interior walkway Concrete Cold Water Basin Material No excess silt or debris Silt, Debris Buildup Water Distribution System **Open Basin System** PVC Distribution Basin Material **PVC** Inlet Pipe Material PVC Inlet Manifold Material PVC Flow Control Valves Size X X Nozzles-Orifice Diameter Size Replaced and or repaired many nozzles in all cells Plant was down for prolonged Outage, H20 to be Silt, Algae, Debris chemically treated when back in service Spray Type System Header Pipe Material x Branch Pipe Material Nozzles-Orifice Diameter Size Up spray ☐ Down spray ☐ **Heat Transfer System** Fill is getting brittle, see attached pics of damage Fill-Type & Material Eliminators-Type & Material Air operated plumb abatement louvers do not work Louvers-Type & Material somewhat normal build up on heat transfer coils Biological Fouling Use this space to list specific items needing attention:

Mechanical Equipment Comments Speed Reducer Type: Direct Drive 🗅 Belt 🗅 Gear 😱 **Belt Drive Unit** N/A Belt Designation Fan Sheave Designation N/A Motor Sheave Designation N/A **Gear Drive Unit** Manufacturer SPX Model Full 🙀 Oil Level: Add Immediately Low, check again soon 🗅 Oil Condition: Good 🗆 Contains Water 🗆 Contains Metal Contains Sludge 🗆 Oil Type Used Oil is sent out for scheduled oil testing Seals after inspection was complete, verified correct oil level in gear box to correct level on site glass and topped Backlash up all gearboxes to FULL mark on site glass Fan Shaft Endplay Unusual Noises? Action Required No 🗆 Yes 🗆 **Drive Shaft** carbon fiber shaft with flex plate couplings Manufacturer Material Fan Fan Type: Propeller 🗆 Blower 🔾 Manufacturer Fixed Pitch Adjustable Pitch Diameter Number of Blades fiberglass Blade Material X **Hub Material** aluminum **Hub Cover Material** fiberglass X X stainless Blade Assembly Hardware Tip Clearance " min Vibration Level Fan Cylinder Height g/box support foundation beam OK Mechanical Equipment Support Secured all drain and breather lines in cell tower to stop X Oil Fill and Drain Line them vibrating X Oil Level Sight Glass did not test switch for trip Vibration Limit Switch Motor Manufacturer Name Plate Data: **RPM** Phase F L Amps Frame Special Info. Last Lubrication—Date Grease Used—Type Unusual Noises? No 🗆 Yes 🗆 Action Required Unusual Vibration? No 🗆 Yes 🗆 Action Required Unusual Heat Build-up? No 🗆 Yes 🗆 Action Required Make-up Valve Other Component

Other Component

Condition: 1-Good 2-Keep an eye on it 3-Needs immediate attention



Cell 2 p 1 Cooling Tower Inspection Checklist

Owner/Company Calpine	Inspected by Pat Mannion					
Company Contact	Inspector					
Signature	Signature					
Owner's Tower Designation						
Tower Manufacturer	Model No. Serial No.					
Process Served by Tower	Operation: Continuous 🗆 Intermittent 🗅 Seasonal					
Design Conditions: GPM HW _	°F CW°F WB°F					
Cell No Number of Fan Cells Date Tower was installed	Tower Type: Crossflow Counterflow					
Condition: 1-Good 2-Keep	an eye on it 3–Needs immediate attention					
	1 2 3 Comments					
Structure	V Congrete begin fiberaless siding and stairs					
Casing Material	X Concrete basin fiberglass siding and stairs					
Structural Material	1 ibergiass					
Fan Deck Material	x Fiberglass x Fiberglass					
Stairway Material	x Fiberglass					
Ladder	x Fiberglass					
Handrail Material						
Interior Walkway Material	x Concrete					
Cold Water Basin Material	× No excess silt or debris					
Silt, Debris Buildup	110 0x0000 cirt of doubto					
Water Distribution System						
Open Basin System						
Distribution Basin Material	x PVC					
Inlet Pipe Material	x PVC					
Inlet Manifold Material	x PVC					
Flow Control Valves Size	x PVC					
Nozzles-Orifice Diameter Size	X Replaced and or repaired many nozzles in all					
Silt, Algae, Debris	X Plant was down for prolonged Outage, H20 to					
Spray Type System	chemically treated when back in service					
Header Pipe Material	X					
Branch Pipe Material	1					
Nozzles-Orifice Diameter Size	X					
Up spray ☐ Down spray ☐						
AND THE RESERVE AND						
No. of Table 2						
Heat Transfer System	Y Fill is gotting brittle, and attached pice of dame					
Fill-Type & Material	X Fill is getting brittle, see attached pics of dama					
Eliminators-Type & Material	A Air apparated plumb abatament lauriers de se					
	x Air operated plumb abatement louvers do no					
Louvers-Type & Material Biological Fouling	x somewhat normal build up on heat transfer co					

Cell 2

Condition: 1—Good 2—Keep an eye on it 3—Needs immediate attention

echanical Equipment	1 2 :	3 Comments
	Direct Drive	
Belt Drive Unit		
Belt Designation N/A		
Fan Sheave Designation N/A		
Motor Sheave Designation N/A		
	Amac	:11>
Manufacturer Marley werhunder Mode	el AA 7	Ratio 15.84:1 Serial#
Oil Level: Full M Add Immediatel	lv 🗆	Ratio 15.84:1 SeRial# Low, check again soon M543
Oil Condition: Good Contains Water		
Oil Type Used , Oil is sen	it out for s	cheduled oil testing
Seals must leak		after inspection was complete, verified correct oil.
Backlash		in gear box to correct level on site glass and toppe
Fan Shaft Endplay	X	up all gearboxes to FULL mark on site glass
Unusual Noises? No D Yes D		Required
Drive Shaft		
Manufacturer Material	X	carbon fiber shaft with flex plate couplings
Fan	oma,	Acceptance of the second secon
Fan Type: Propeller Blower		
Manufacturer	Fixed	Pitch □ Adjustable Pitch □
		er of Blades
Diameter	NULLIDA	OI OI DIQUES
Blade Material fiberglass		
	X	
Hub Material <u>aluminum</u> Hub Cover Material <u>fiberglass</u>	X	
Blade Assembly Hardware stainless	X	man Francisco and Constitution (Constitution Constitution
Tip Clearance " min " max		
Vibration Level		
Fan Cylinder Height		g/box support foundation beam OK
Mechanical Equipment Support		Secured all drain and breather lines in cell tower to
Oil Fill and Drain Line	X	them vibrating
Oil Level Sight Glass	3.0	
Vibration Limit Switch	X	did not test switch for trip
Motor		
Manufacturer	A	N N
Name Plate Data: HP	RPM_	
F L Amps Frame		S F Special Info
Last Lubrication—Date		
Grease Used—Type		
Unusual Noises? No 🗅	Yes	
Unusual Vibration? No 📮	Yes	
Unusual Heat Build-up? No □	Vac	
	Yes	Action Required
and the state of t		Action Required
ake-up Valvether Component		Action Required

Appendix 9

Metcalf Energy Center

Annual Compliance Report 2024 Water Usage Summary

Recycled Water		Po	otable Water
month	consumption (gal)	month	consumption (gal)
January	70,177,360	January	9,765,477
February	61,704,016	February	9,277,332
March	42,917,248	March	15,715,480
April	37,400	April	583,537
May	506,396	May	967,388
June	38,367,912	June	11,048,805
July	79,867,700	July	9,030,507
August	70,572,304	August	8,881,909
September	42,647,220	September	8,520,393
October	58,968,580	October	9,916,872
November	37,534,640	November	6,353,699
December	51,769,828	December	7,468,234
Total	555,070,604	Total	97,529,633

Metcalf Energy Center

Annual Compliance Report 2024 Water Usage Summary Condition of Certification S&W-1

Recycled Water

Cooling Tower for Steam Cycle Cooling	555,070,604
Total Gallons 2024	555,070,604
Potable Water	
Condenser Make-Up	35,356,511
Steam Attemperation	33,440,064
Inlet Air Cooling	9,070,408
Domestic	752,118
RO Reject	14,969,798
Filter Backwash	2,993,960
CT Wash Water	482,475
Plant Wash Down	689,249
Total Gallons 2024	97.529.633

Appendix 10

METCALF ENERGY CENTER, LLC

TRANS-3 HAZARDOUS MATERIAL DELIVERIES

	JANUARY			
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM
CHEMTREAT	RL9007	1/25/2024	539	LBS
CHEMTREAT	BL1794	1/25/2024	497	LBS
CHEMTREAT	BL8401	1/25/2024	957	LBS
CHEMTREAT	CL4500	1/19/2024	2,228	LBS
CHEMTREAT	BL8401	1/29/2024	916	LBS
CHEMTREAT	BL1794	1/29/2024	477	LBS
CHEMTREAT	RL9007	1/29/2024	519	LBS
CHEMTREAT	BL8401	1/29/2024	458	LBS
CHEMTREAT	CL243	1/29/2024	4,400	LBS
HILL BROTHERS	AQUEOUS AMMONIA	1/24/2024	6,701	LBS
HILL BROTHERS	AQUEOUS AMMONIA	1/22/2024	5,901	GAL
HILL BROTHERS	AQUEOUS AMMONIA	1/17/2024	6,704	GAL
HILL BROTHERS	AQUEOUS AMMONIA	1/30/2024	6,000	GAL
HILL BROTHERS	AQUEOUS AMMONIA	1/12/2024	6,009	GAL
HILL BROTHERS	AQUEOUS AMMONIA	1/9/2024	6,700	GAL
HILL BROTHERS	AQUEOUS AMMONIA	1/4/2024	6,700	GAL
NORTHSTAR CHEMICAL	SULFURIC ACID	1/17/2024	3,268	GAL
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	1/21/2024	45,025	LBS
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	1/4/2024	44,991	LBS

FEBRUARY				
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM
CHEMTREAT	RL1245	2/19/2024	511	LBS
CHEMTREAT	BL152	2/13/2024	1,990	LBS
CHEMTREAT	CL4500	2/8/2024	10,130	LBS
CHEMTREAT	RL1245	2/8/2024	531	LBS
CHEMTREAT	BL152	2/13/2024	1,592	LBS
CHEMTREAT	BL1794	2/13/2024	477	LBS
CHEMTREAT	BL8401	2/13/2024	458	LBS
HILL BROTHERS	AQUEOUS AMMONIA	2/7/2024	6,701	GAL
HILL BROTHERS	AQUEOUS AMMONIA	2/9/2024	3,902	GAL
HILL BROTHERS	AQUEOUS AMMONIA	2/23/2024	6,703	GAL
HILL BROTHERS	AQUEOUS AMMONIA	2/16/2024	6,701	GAL
HILL BROTHERS	AQUEOUS AMMONIA	2/14/2024	6,702	GAL
HILL BROTHERS	AQUEOUS AMMONIA	2/28/2024	6,701	GAL
HILL BROTHERS	AQUEOUS AMMONIA	2/2/2024	6,001	GAL
NORTHSTAR CHEMICAL	SULFURIC ACID	2/2/2024	3,268	GAL
NORTHSTAR CHEMICAL	SULFURIC ACID	2/13/2024	3,268	GAL
NORTHSTAR CHEMICAL	SULFURIC ACID	2/23/2024	3,268	GAL
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	2/17/2024	45,003	LBS
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	2/6/2024	45,042	LBS

	MARCH			
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM
CHEMTREAT	BL8401	3/7/2024	478	LBS
CHEMTREAT	RL9007	3/21/2024	539	LBS
CHEMTREAT	RL1245	3/21/2024	531	LBS
CHEMTREAT	BL152	3/21/2024	418	LBS
CHEMTREAT	BL1794	3/21/2024	497	LBS
HILL BROTHERS	AQUEOUS AMMONIA	3/5/2024	6,700	GAL
HILL BROTHERS	AQUEOUS AMMONIA	3/28/2024	2,302	GAL
HILL BROTHERS	AQUEOUS AMMONIA	3/25/2024	3,502	GAL
HILL BROTHERS	AQUEOUS AMMONIA	3/18/2024	6,704	GAL
HILL BROTHERS	AQUEOUS AMMONIA	3/8/2024	5,905	GAL
HILL BROTHERS	AQUEOUS AMMONIA	3/18/2024	3,705	GAL
NORTHSTAR CHEMICAL	SULFURIC ACID	3/13/2024	3,268	GAL
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	3/8/2024	45,057	LBS
	APRIL			
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM

NO DELIVERIES

	MAY			
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM
CHEMTREAT	RL1245	5/16/2024	1,063	LBS
CHEMTREAT	BL152	5/16/2024	1,672	LBS
CHEMTREAT	BL8401	5/30/2024	957	LBS
CHEMTREAT	CL243	5/30/2024	2,326	LBS
HILL BROTHERS	AQUEOUS AMMONIA	5/25/2024	3,705	GAL

JUNE				
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM
HILL BROTHERS	AQUEOUS AMMONIA	6/27/2024	6,702	GAL
HILL BROTHERS	AQUEOUS AMMONIA	6/21/2024	6,703	GAL
HILL BROTHERS	AQUEOUS AMMONIA	6/13/2024	5,201	GAL
HILL BROTHERS	AQUEOUS AMMONIA	6/4/2024	5,802	GAL
NORTHSTAR CHEMICAL	SULFURIC ACID	6/6/2024	3,137	GAL
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	6/5/2024	45,095 L	.BS
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	6/28/2024	45,035 L	BS

JULY				
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM
CHEMTREAT	CL4500	7/5/2024	12,663	LBS
CHEMTREAT	BL152	7/10/2025	1,672	LBS
HILL BROTHERS	AQUEOUS AMMONIA	7/24/2024	6,701	GAL
HILL BROTHERS	AQUEOUS AMMONIA	7/30/2024	6,001	GAL
HILL BROTHERS	AQUEOUS AMMONIA	7/12/2024	6,701	GAL
HILL BROTHERS	AQUEOUS AMMONIA	7/19/2024	6,701	GAL
HILL BROTHERS	AQUEOUS AMMONIA	7/2/2024	4,001	GAL
HILL BROTHERS	AQUEOUS AMMONIA	7/5/2024	6,704	GAL
NORTHSTAR CHEMICAL	SULFURIC ACID	7/31/2024	3,194	GAL
NORTHSTAR CHEMICAL	SULFURIC ACID	7/1/2024	3,268	GAL
NORTHSTAR CHEMICAL	SULFURIC ACID	7/15/2024	3,268	GAL
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	7/10/2024	44,566	LBS
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	7/22/2024	44,376	LBS

	AUGUST				
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM	
CHEMTREAT	BL1794	8/22/2024	995	LBS	
HILL BROTHERS	AQUEOUS AMMONIA	8/2/2024	6,701	GAL	
HILL BROTHERS	AQUEOUS AMMONIA	8/30/2024	6,701	GAL	
HILL BROTHERS	AQUEOUS AMMONIA	8/16/2024	6,700		
HILL BROTHERS	AQUEOUS AMMONIA	8/22/2024	6,701	GAL	
HILL BROTHERS	AQUEOUS AMMONIA	8/9/2024	6,701		
NORTHSTAR CHEMICAL	SULFURIC ACID	8/14/2024	3,268		
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	8/2/2024	44,526		
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	8/12/2024	44,802	LBS	
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	8/26/2024	44,984	LBS	
	SEPTEMBER				
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM	
CHEMTREAT	CL243	9/19/2024	6,977	LBS	
CHEMTREAT	BL152	9/5/2024	1,592	LBS	
HILL BROTHERS	AQUEOUS AMMONIA	9/27/2024	6,700	GAL	
HILL BROTHERS	AQUEOUS AMMONIA	9/10/2024	6,700	GAL	
HILL BROTHERS	AQUEOUS AMMONIA	9/5/2024	6,500	GAL	
NORTHSTAR CHEMICAL	SULFURIC ACID	9/4/2024	3,268	GAL	
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	9/10/2024	47,859	LBS	
OCTORER					
	OCTOBER				
VENDOR NAME	OCTOBER CHEMICAL	RECEIVED	QUANTITY	UOM	
VENDOR NAME CHEMTREAT		RECEIVED 10/3/2024	QUANTITY 1,618		
	CHEMICAL			LBS	
CHEMTREAT	CHEMICAL RL9007	10/3/2024 10/3/2024 10/31/2024	1,618	LBS LBS	
CHEMTREAT CHEMTREAT	CHEMICAL RL9007 RL9007	10/3/2024 10/3/2024	1,618 1,618	LBS LBS GAL	
CHEMTREAT CHEMTREAT HILL BROTHERS	CHEMICAL RL9007 RL9007 AQUEOUS AMMONIA	10/3/2024 10/3/2024 10/31/2024	1,618 1,618 6,701 6,700 6,702	LBS LBS GAL GAL GAL	
CHEMTREAT CHEMTREAT HILL BROTHERS HILL BROTHERS	CHEMICAL RL9007 RL9007 AQUEOUS AMMONIA AQUEOUS AMMONIA	10/3/2024 10/3/2024 10/31/2024 10/11/2024	1,618 1,618 6,701 6,700	LBS LBS GAL GAL GAL	
CHEMTREAT CHEMTREAT HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS	CHEMICAL RL9007 RL9007 AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA	10/3/2024 10/3/2024 10/31/2024 10/11/2024 10/8/2024 10/2/2024 10/24/2024	1,618 1,618 6,701 6,700 6,702 6,701 6,702	LBS LBS GAL GAL GAL GAL GAL	
CHEMTREAT CHEMTREAT HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS	CHEMICAL RL9007 RL9007 AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA SULFURIC ACID	10/3/2024 10/3/2024 10/31/2024 10/11/2024 10/8/2024 10/2/2024 10/24/2024 10/3/2024	1,618 1,618 6,701 6,700 6,702 6,701 6,702 3,268	LBS LBS GAL GAL GAL GAL GAL GAL	
CHEMTREAT CHEMTREAT HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS NORTHSTAR CHEMICAL NORTHSTAR CHEMICAL	CHEMICAL RL9007 RL9007 AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA SULFURIC ACID SULFURIC ACID	10/3/2024 10/3/2024 10/31/2024 10/11/2024 10/8/2024 10/2/2024 10/24/2024 10/3/2024 10/22/2024	1,618 1,618 6,701 6,700 6,702 6,701 6,702 3,268 3,268	LBS LBS GAL GAL GAL GAL GAL GAL GAL	
CHEMTREAT CHEMTREAT HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS NORTHSTAR CHEMICAL NORTHSTAR CHEMICAL UNIVAR SOLUTIONS	CHEMICAL RL9007 RL9007 AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA SULFURIC ACID SULFURIC ACID SODIUM HYPOCHLORITE	10/3/2024 10/3/2024 10/31/2024 10/11/2024 10/8/2024 10/2/2024 10/24/2024 10/3/2024 10/22/2024 10/14/2024	1,618 1,618 6,701 6,700 6,702 6,701 6,702 3,268 3,268 45,021	LBS LBS GAL GAL GAL GAL GAL GAL GAL GAL LBS	
CHEMTREAT CHEMTREAT HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS NORTHSTAR CHEMICAL	CHEMICAL RL9007 RL9007 AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA SULFURIC ACID SULFURIC ACID	10/3/2024 10/3/2024 10/31/2024 10/11/2024 10/8/2024 10/2/2024 10/24/2024 10/3/2024 10/22/2024	1,618 1,618 6,701 6,700 6,702 6,701 6,702 3,268 3,268	LBS LBS GAL GAL GAL GAL GAL GAL GAL GAL LBS	
CHEMTREAT CHEMTREAT HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS NORTHSTAR CHEMICAL NORTHSTAR CHEMICAL UNIVAR SOLUTIONS	CHEMICAL RL9007 RL9007 AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA SULFURIC ACID SULFURIC ACID SODIUM HYPOCHLORITE	10/3/2024 10/3/2024 10/31/2024 10/11/2024 10/8/2024 10/2/2024 10/24/2024 10/3/2024 10/22/2024 10/14/2024	1,618 1,618 6,701 6,700 6,702 6,701 6,702 3,268 3,268 45,021	LBS LBS GAL GAL GAL GAL GAL GAL GAL GAL LBS	
CHEMTREAT CHEMTREAT HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS HILL BROTHERS NORTHSTAR CHEMICAL NORTHSTAR CHEMICAL UNIVAR SOLUTIONS	CHEMICAL RL9007 RL9007 AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA AQUEOUS AMMONIA SULFURIC ACID SULFURIC ACID SODIUM HYPOCHLORITE SODIUM HYPOCHLORITE	10/3/2024 10/3/2024 10/31/2024 10/11/2024 10/8/2024 10/2/2024 10/24/2024 10/3/2024 10/22/2024 10/14/2024	1,618 1,618 6,701 6,700 6,702 6,701 6,702 3,268 3,268 45,021	LBS LBS GAL GAL GAL GAL GAL GAL GAL GAL LBS	
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	DECEMBER			
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM
CHEMTREAT	BL1794	12/6/2024	1,908	LBS
CHEMTREAT	BL152	12/6/2024	1,674	LBS
HILL BROTHERS	AQUEOUS AMMONIA	12/6/2024	6,700	GAL
HILL BROTHERS	AQUEOUS AMMONIA	12/18/2024	6,700	GAL
HILL BROTHERS	AQUEOUS AMMONIA	12/3/2024	6,701	GAL
HILL BROTHERS	AQUEOUS AMMONIA	12/13/2024	6,701	GAL
HILL BROTHERS	AQUEOUS AMMONIA	12/23/2024	5,001	GAL
NORTHSTAR CHEMICAL	SULFURIC ACID	12/12/2024	3,268	GAL
NORTHSTAR CHEMICAL	SULFURIC ACID	12/30/2024	3,500	GAL
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	12/18/2024	44,951	LBS
UNIVAR SOLUTIONS	SODIUM HYPOCHLORITE	12/4/2024	46,173	LBS

Appendix 11



Work Order Details

32852802: MF-1Y ARCHITECTURAL TREATMENT INSPECTION FOR THE CEC

Asset: 10348123 METCALF ENERGY CENTER SYSTEMS POWER BLOCK 1

Location: MF-01 MF POWER BLOCK 1

Job Plan: 27731 MF-1Y ARCHITECTURAL TREATMENT INSPECTION FOR THE CEC

Sched Start:	Aug 5, 2024 10:02 AM
Sched Finish:	
Target Start:	Aug 10, 2024 12:00 AM
Target Finish:	Aug 10, 2024 2:00 AM
Actual Start:	Aug 7, 2024 4:33 PM
Actual Finish:	Aug 7, 2024 4:34 PM
Report Date:	Jul 15, 2024 5:30 AM
Reported By:	MAXADMIN
On Behalf Of:	

Site:	MF
Priority:	3
Work Type:	PM
Status:	COMP
Parent:	
Failure Class:	BG
Problem Code:	
Vendor:	
GL Account:	50300~623000~2070100~2901~S10030~OM000000

Supervisor:	OPS MGR
Lead:	MF-OPS
Work Group:	
Owner:	
Owner Group:	
Service:	
Service Group:	
Classification:	
PM:	107859

Task IDs						
Task ID	Description	Status	Measurement Point	Value	Date	Observations
10	PRINT OUT INSPECTION CHECKLIST AND DEFINITIONS	COMP		0		
20	PERFORM INSPECTION OF SITE AREAS LISTED IN THE CHECKLIST	COMP		0		
30	THE CEC IS ONLY CONCERNED WITH PORTIONS OF THE PLANT VISIBLE TO THE PUBLIC.	COMP		0		
40		COMP		0		
50	GIVE COMPLETED CHECKLIST TO THE OPERATIONS MANAGER	COMP		0		
60	OPS MANAGER TO INFORM EHS SPECIALIST THAT ANNUAL INSPECTION IS DONE AND CAN BE INCLUDED WITH THE ANNUAL CEC REPORT.	COMP		0		
70	IF NECESSARY CREATE ANY CORRECTIVE WORK ORDERS.	COMP		0		
80	UPDATE MAXIMO AND FILE THE INSPECTION CHECKLIST.	COMP		0		

Log						
	Date	Class	Created By	Subject	Description	Long Description
	8/7/24	WORKORDER	SH13667		Performed architectural inspection	Architectural condition consistent with age of plant. <br RICH TEXT>

8/23/24 12:22 PM

California Energy Commission's Condition of Certification VISUAL RESOURCES-1

METCALF ENERGY CENTER, LLC STATUS REPORT REGARDING THE ARCHITECTURAL DESIGNTREATMENT MAINTENANCE

California Energy Commission Condition of Certification Visual Resources – 1 requires the Metcalf Energy Center to submit in its Annual Compliance Report a status report regarding the treatment maintenance of the project structures. The project structures, which are visible to the public, have been painted with CPM-approved and City of San Jose-approved non-reflective colors with a low-gloss finish.

The Metcalf Energy Center Maintenance Department has procedures to address all aspects for maintaining the power plant efficiently. Issues such as coating or painting are captured by staff's surveillance and utilization of checklists. Once an item is deemed in need of maintenance, Plant Management schedule and prioritizes the maintenance through a work order process. Outside contractors are also utilized at Metcalf Energy Center. Plant Management inspects and signs off on the work once it is fully complete.

A copy of the checklists used to survey the architectural screen as well as the other painted surfaces visible from offsite is attached to this summary.

UNIT: Steam Turbine

	TURBINE / GENERATOR ENCLOSURE	GENERATOR / CONDENSER SOUND WALL
Chalking	2	2
Erosion	1	/
Discoloration	3	多 2
Fading	3	3
Loss of Gloss	3	3
Mildew Defacement	1	/
Moisture Blushing	1	,
Orange Peel	1	/
Wrinkling	1	/
Chemical Attack	,	/
High Temperature Attack	₽ 2	
Mottling	1	/
Crackling	,	/
Saponification	,	,
Disbanding (peel/blister)	/	(
Crawling (fish eye)	/	1

UNIT: Cooling Tower

	SUPERSTRUCTURE
Chalking	3
Erosion/Corrosion	2
Discoloration	3
Fading	3
Loss of Gloss	3
Mildew Defacement	,
Moisture Blushing	3
Orange Peel	1
Wrinkling	,
Chemical Attack	J
High Temperature Attack	/
Mottling	,
Crackling	1
Saponification	,
Disbanding (peel/blister)	,
Crawling (fish eye)	j

UNIT: HRSG & Gas Turbine 1

	INLET AIR FILTER HOUSE	TURBINE/ GENERATOR	STACK	SCREENING
Chalking	33	2	3	3
Erosion/Corrosion	,	2	,	,
Discoloration	2	2	2	2
FadinQ	3	.3	3	3
Loss of Gloss	3	_3	3	3
Mildew Defacement	,	/		,
Moisture Blushing	,	1	,	,
Orange Peel	(/	,	,
Wrinkling	,	,	(i
Chemical Attack	1	/	1	1
High Temperature Attack	,	2	,	
Mottling	1	/	(7
Crackling	,	,	,	1
Saponification	1	,	,	
Disbanding (peel/blister)	,	,	1	1
Crawling (fish eye)	/	1	1	1

UNIT: HRSG & Gas Turbine 2

	INLET AIR FILTER HOUSE	TURBINE/ GENERATOR	STACK	SCREENING
Chalking	2	2	3	3
Erosion/Corrosion	1	2	1	1
Discoloration	2	Ζ	2	2
Fading	3	3	3	3
Loss of Gloss	3	3	3	3
Mildew Defacement	,	1	1	1
Moisture Blushing	/	/	1	/
Orange Peel	,	/		1
Wrinkling	,	/	1	,
Chemical Attack	,	/	1	,
High Temperature Attack	,	3	- (1
Mottling	/	/	1	
Crackling	1	/	/	
Saponification	1	/	1	1
Disbanding (peel/blister)	1		1	,
Crawling (fish eye)	1		1	1

UNIT: Water Tanks

	SERVICE/FIRE WATER	DEMINERALIZED WATER
Chalking	3	3
Erosion/Corrosion	1	/
Discoloration	2	2
Fading	3	3
Loss of Gloss	3	3
Mildew Defacement	1	/
Moisture Blushing	1	/
Orange Peel	(/
Wrinkling	1	(
Chemical Attack	1	/
High Temperature Attack	/	1
Mottling	1	/
Crackling	2	2
Saponification	1	/
Disbanding (peel/blister)	t	/
Crawling (fish eye)	1	1

UNIT: Buildings

	ADMINISTRATION	WAREHOUSE
Chalking	3	3
Erosion/Corrosion	2	2.
Discoloration	3	3
Fading	3	3
Loss of Gloss	3	3
Mildew Defacement	1	į
Moisture Blushing	1	,
Orange Peel	1	1
Wrinkling	1	1
Chemical Attack	(1
High Temperature Attack	1	1
Mottling	1	1
Crackling	1	1
Saponification	1	1
Disbanding (peel/blister)	1	/
Crawling (fish eye)	/	/

Appendix 12

Metcalf Energy Center Plume Log - Year to Date

Cooling Tower Plumes

Occining Tower Flui	1100		-					
Date	Start Time	End time	Total Time	Event	Relative Humidity	Temperature	Supplemental Firing (On/Off)	Plume Abatement In Service (Louvers Open)
No Plume Events in Janua	ary 2024						,	
No Plume Events in Febru	uary 2024							
No Plume Events in March	h 2024							
No Plume Events in April 2	2024							
No Plume Events in May 2	2024							
No Plume Events in June	2024							
No Plume Events in July 2	2024							
No Plume Events in Augus	st 2024							
No Plume Events in Septe	ember 2024							
No Plume Events in Octob	per 2024							
November 15, 2024	7:55	8:55	1 hr.	Plume	86%	45	Off	Yes
December 3, 2024	7:05	7:35	30 mins	Plume	85%	41	On	Yes
December 4, 2024	8:03	8:28	25 mins	Plume	89%	45	Off	Yes
December 5, 2024	7:07	7:37	30 mins	Plume	85%	45	On	Yes
December 6, 2024	7:07	7:38	31 mins	Plume	89%	42	On	Yes
Total Cooling Tower P	lume Hours:		2:56					
Remedial Actions To	Be Taken							
1. The Operator will verify that	at the plume aba	tement was in se	ervice.					
2. The Operator will verify that								
3. Curtail supplementary firin	g in the HRSG.							

Stack Plumes

			-					
Date	Start Time	End time	Total Time	Event	Relative Humidity	Relative Humidity Temperature	Supplemental Firing Relative Humidity Temperature (On/Off)	Firing Steam Injection
No Plume Events in Janua	ary 2024						(cincin)	
No Plume Events in Febru	ary 2024							
No Plume Events in March	n 2024							
No Plume Events in April 2	2024							
No Plume Events in May 2	2024							
No Plume Events in June	2024							
No Plume Events in July 2	024							
No Plume Events in Augus	st 2024							
No Plume Events in Septe	mber 2024							
No Plume Events in Octob	er 2024							
No Plume Events in Nover	mber 2024							
No Plume Events in Decer	mber 2024							
Total Stack Plume H	ours:		0:00					
Remedial Action	ns Taken							
		vypaes valvo						
 The Operator will opera Curtail steam injection to 			G steam)					
3. Curtail supplementary fi		indine (called 1 A	o sicam).					
o. ca. an oappiononary in								
Total Combined Plur	me Hours:		2:56					

Appendix 13

METCALF ENERGY CENTER 2024 ANNUAL COMPLIANCE REPORT WASTE-3

In accordance with **Waste-3**, the Metcalf Energy Facility is required to document actual waste management methods used during the year compared to planned management methods. The facility is currently using the planned waste management methods for all the waste streams generated within the facility, as listed in the table below.

Waste Stream	Туре	Planned	Actual
Non-hazardous Solid	Recyclables	Recycle (Off-site)	Recycle (Off-site)
Waste	Non-Recyclables	Landfill	Landfill
Non-hazardous Liquid	Sanitary Waste	Sewage Treatment Plant	Sewage Treatment Plant
Waste	Process Wastewater	Sewage Treatment Plant	Sewage Treatment Plant
	Used Oil	Recycle (Off-site)	Recycle (Off-site)
Hazardous Liquid Waste	Oily Water	Off-site disposal company	Off-site disposal company
Trazardous Liquid Waste	Aqueous Parts Washer	Off-site disposal company	Off-site disposal company
	Flammable Liquid	Off-site disposal company	Off-site disposal company
	Used Oil Filters	Recycle (Off-site)	Recycle (Off-site)
Hazardous Solid Waste	Oily Rags	Off-site disposal company	Off-site disposal company
	Debris from HRSG Cleaning	Off-site disposal company	Off-site disposal company
	Universal Waste	Recycle (Off-site)	Recycle (Off-site)

Appendix 14

1 Blanchard Road Coyote, CA 95013

April 9, 2024

Director, Enforcement and Compliance Division
Bay Area Air Quality Management District, Suite 600
375 Beale Street
San Francisco, CA 94105-2066
Attn: Jeffrey Gove
compliance@baaqmd.gov

RE: Metcalf Energy Center, LLC., Permit No. B2183
Major Facility Review Permit (Title V Permit)
30-Day Title V Non-Compliance Report
RCA ID: 200236

Dear Mr. Gove,

In accordance with the Major Facility Review Permit ("Title V Permit") for Metcalf Energy Center, LLC (the "Facility"), this letter is intended to satisfy the 30-day follow-up reporting requirement as required by Section I.F. of the Title V Permit, which requires the reporting of all non-compliance instances of the Title V Permit in writing within 30 days of discovery of such non-compliance.

The RCA was submitted on March 13, 2024, and the Title V 10-day initial notification was submitted to the District on March 14, 2024.

On March 11, 2024, the facility experienced an indicated excess of the following NO_X emission limits of the Title V permit: 19.2 pounds per hour (Condition 20.a), 0.00904 lbs./MMBtu (Condition 20.a), and 2.5 ppm 1-hour average, corrected to 15% O₂ (Condition 20.b). All evidence indicates that this event was caused by a loose sample tube connected to the O₂ analyzer. The details of the troubleshooting and event are described in the event description section below. The Facility believes that these values do not accurately represent actual stack emissions and that no excess emissions occurred during this event.

Event Description

On March 11, 2024, the Facility experienced issues with the Combustion Turbine 1 (CT-1) O_2 analyzer after it failed a calibration check out of control (OOC). Subsequent to successfully passing a 2^{nd} calibration check, the analyzer recorded 11 minutes of O_2 concentration data that were not representative of combustion gas as shown in Attachment 1. The high O_2 data resulted in high NO_X corrected values that led to the indicated excess emissions.

After recording the high O_2 data the analyzer was put into maintenance for troubleshooting. During troubleshooting, after the analyzer was challenged with calibration gas, it began reporting data typical of combustion gas. The system was returned to service and NOx data were within normal range.

On March 12, 2024, while the unit was down, Facility staff continued to troubleshoot the O_2 analyzer since the cause of the failed calibration had not been determined. During this process, the analyzer OEM (Thermo) was contacted for guidance, and they advised checking the analyzer for loose connections. Upon inspection, staff found a loose connection on the O_2 sensor. After the loose sample tube was tightened, the O_2 values became stable, and a calibration check was successfully completed. No further issues have been noted.

Director, Enforcement and Compliance Division April 9, 2024 Page 2

The following is a chronology of the event:

March 11, 2024

- 13:17-13:41: O₂ analyzer fails calibration check OOC.
- 13:44-13:55: O₂ analyzer passes calibration check.
- 13:56-14:06: O₂ analyzer records data (> 24%) that is non-representative of combustion gas
- 14:07: O₂ analyzer placed into "Maintenance Mode" to troubleshoot cause of the elevated O₂ readings. During troubleshooting, the analyzer began reading O₂ data within normal range after analyzer was challenged with calibration gas.
- 15:12: O₂ analyzer returned to service.

March 12, 2024

- 06:30-14:10: staff continued troubleshooting O₂ analyzer. Contacted Thermo. Tightened sample tube on the O₂ sensor.
- 14:11: CEMS was placed back into "Service"
- 14:12-14:27: Initiated calibration check on the analyzer.

Corrective Actions

The Facility determined that a loose sample tube connected to the O_2 analyzer was the cause of the calibration failure and non-representative O_2 readings. The connection was tightened.

Compliance Status

The Facility was in full compliance with its air permit throughout the duration of this event. The 11 minutes of non-representative data will be invalidated and the database rebuilt upon District approval.

Investigation and Cause Determination

The O_2 concentration in combustion exhaust must be below the ambient O_2 concentration of 21% since oxygen is consumed to support combustion. The standard default O_2 concentration for combustion turbine exhaust is 15%, and the typical Facility exhaust gas O_2 concentration during normal operations is 14%. The O_2 data recorded during the event that led to the indicated NO_X excess emissions was greater than 24%. The Facility has determined that the loose sample tube connected to the analyzer affected the ability of the O_2 analyzer to accurately measure the O_2 concentration data.

Based on the investigation, it has been determined that the analyzer recorded O_2 data that was not representative of actual oxygen concentrations and the Facility did not emit excess emissions.

Preventative Actions

The onsite technicians perform quarterly CEMS analyzer preventive maintenance. The maintenance procedures have been updated to include a step to check all analyzer sample connections for loose fittings and make necessary adjustments. Furthermore, the Facility will utilize high O_2 alarms to alert operations when the analyzers are recording high indicated O_2 concentrations in the future.

Director, Enforcement and Compliance Division April 9, 2024 Page 3

Certification

As the Responsible Official, I certify that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

If you have any questions or require additional information, please contact Rosemary Silva, EHS Specialist, at 408-361-4954.

Sincerely,

CADF598531F14B6...
Kevin Karwick
General Manager
Metcalf Energy Center, LLC

Cc: Erin Phillips BAAQMD via email attachment Anwar Ali CEC AQ-34 via email attachment EHSWalnutCreek@calpine.com via email attachment CICS Records INC103103

Attachments

Attachment 1: Hourly Emissions Report_031124

Attachment 1

Metcalf

San Jose, CA

Turbine-1 Hourly Emissions Report March 11, 2024 - Hour 14

3-Hr Rolling Emission Limits
CO ppm @15% O2 - 4 * CO lb/
CO lb/mmBtu - 0.0088 * NH3 Slip ppn 4-Hr Rolling (Subpart GG) Emission Limit NOx ppm @15% O2 - 100 1-Hr Emission Limits NOx ppm @15% O2 - 2.5 * NOx lb/mmBtu - 0.00904 * CO lb/hr - 18.7 * NOx lb/hr - 19.2 * NH3 Slip ppm @15% O2 - 5 *

Minute	O2%	NOx ppm	NOx ppm @15% O2	NOx lb/mmBtu	NOx lb/hr	CO ppm	CO ppm @15% O2	CO lb/mmBtu	CO lb/hr	NH3 ppm Slip @15% O2	SCR NOx ppm	Process Status
14:00	24.67	2.38	7.39	0.02717	55.48	0.08	0.25	0.0006	1.23	0.00	21.4	Normal
14:01	24.66	2.50	7.76	0.02854	58.08	0.23	0.71	0.0016	3.26	0.00	21.2	Normal
14:02	24.64	2.51	7.79	0.02865	57.91	0.17	0.53	0.0012	2.43	0.00	20.2	Normal
14:03	24.64	2.60	8.07	0.02968	60.28	0.23	0.71	0.0016	3.25	0.00	20.1	Normal
14:04	24.65	2.92	9.07	0.03333	68.14	0.17	0.53	0.0012	2.46	0.00	20.5	Normal
14:05	24.67	3.36	10.43	0.03835	78.86	0.10	0.31	0.0007	1.44	0.00	21.2	Normal
14:06	24.70	3.86	11.99	0.04406	90.60	0.10	0.31	0.0007	1.44	0.00	21.8	Normal
14:07	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:08	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:09	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:10	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:11	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:12	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:13	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:14	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:15	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:16	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:17	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:18	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:19	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:20	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:21	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:22	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:23	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:24	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:25	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:26	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:27	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:28	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:29	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:30	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
1 1.00	l	mann	mann		mann		mann	mann		mann	mann	''''''

Minute	O2%	NOx ppm	NOx ppm @15% O2	NOx lb/mmBtu	NOx lb/hr	CO ppm	CO ppm @15% O2	CO lb/mmBtu	CO lb/hr	NH3 ppm Slip @15% O2	SCR NOx ppm	Process Status
14:31	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:32	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:33	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:34	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:35	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:36	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:37	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:38	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:39	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:40	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:41	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:42	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:43	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:44	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:45	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:46	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:47	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:48	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:49	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:50	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:51	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:52	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:53	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:54	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:55	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:56	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:57	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:58	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
14:59	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Maint	Normal
Average Total 4-Hr RIng	24.7	2.9	8.9 * 7.2	0.03310 *	66.06 *	0.2	0.6	0.0014	2.79	0.0	20.9	Normal
3-Hr Ring			1.2				0.3 *	0.0006 *	1.14 *	1.17 *		

^{* -} Excluding Startup and Shutdown

1 Blanchard Road Coyote, CA 95013

May 9, 2024

Director, Enforcement and Compliance Division Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105 compliance@baagmd.gov

RE: Metcalf Energy Center, Permit No. B2183

Major Facility Review Permit (Title V Permit) 10-Day Title V Non-Compliance Report 30-Day Title V Follow-Up Report

To Whom It May Concern:

In accordance with the Major Facility Review Permit (Title V Permit) for the Metcalf Energy Center (the "Facility"), this letter is to advise you of an instance of potential non-compliance as required by Section I. F. of the Title V Permit, which requires the reporting of all non-compliance instances of the Title V Permit in writing within 10 days. It is also intended to satisfy the 30-day follow-up reporting requirement as required by Section I.F. of the Title V Permit.

On May 1, 2024, during a routine review of the cooling tower TDS data, it was discovered that the samples collected during April 25th to April 30th, 2024, showed negative values, due to a lack of water in the sampling system. During that period, the facility, including the cooling tower, did not operate and remains in a maintenance outage.

We are providing this notification as courtesy to explain readings during this period.

If you have any questions or require additional information, please contact Rosemary Silva, EHS Project Manager III, at 408-361-4954 or silvaro@calpine.com.

Sincerely,

DocuSigned by: kenin karwick C4DF598531F14B6

Kevin Karwick Designated Representative and General Manager Metcalf Energy Center, LLC

CC: Region IX, EPA Anwar Ali, CEC AO-34 EHSWalnutCreek@calpine.com

CICS INC103164

via email attachment via email attachment via email attachment