DOCKETED	
Docket Number:	99-AFC-03C
Project Title:	METCALF Energy Center Compliance
TN #:	242973
Document Title:	ANNUAL COMPLIANCE REPORT- 2020
Description:	N/A
Filer:	Anwar Ali
Organization:	CalPine PowerAmerica-CA, LLC
Submitter Role:	Commission Staff
Submission Date:	5/9/2022 10:31:43 AM
Docketed Date:	5/9/2022

1 Blanchard Road Coyote, CA 95013

August 5, 2021

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 COM-7 - Annual Compliance Report for 2020

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 2020 in Condition of Certification COM-7.

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
- AQ-28: Calculation and Recording of Daily Mass Emissions
- AQ-29: Projected Annual Emissions of Formaldehyde, Benzene, Specific PAHs

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METCALF ENERGY CENTER **REVISION LOG**

On-Site Contingency Plan for Unplanned Temporary & Permanent Facility Closure

Date	Description of Revision	Revision No.	Revised By:
6/01/2005	Planned Developed	1	Dana Petrin
8/08/2008	Plan reviewed and contact information updated.	2	Rosemary Silva
8/24/2009	Annual Review – Updated the notification list, updated the chemical inventory.		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 Waste Water 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 Waste Water 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



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Metcalf Energy Center, LLC

On-Site Contingency Plan for Unplanned Temporary	r
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Revision No.: 12

Date: August 5, 2021

1.0 PURPOSE

This plan was developed in order to provide an on-site contingency plan in order 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

The Operations Manger is responsible for overseeing the program, and notification to the CEC.

4.0 GENERAL

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, fax, or e-mail (see table 1). The Operations Manager shall keep the CPM informed of the circumstances and expected duration of the closure.



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 other period of time mutually agreed to by the owner and the CPM).

TABLE 1AGENCIES TO BE NOTIFIED

California Energy Commission						
Anwar Ali	Tel: (916) 654-5020					
Compliance Project Manager	Fax: (916) 651-8868					
California Energy Commission	e-mail: anwar.ali@energy.ca.gov					
1516 9th St.						
Sacramento, CA 95814-5504						
San Jose Fire	Department					
Bryan Barrows	Tel: (408) 535-7644					
Hazmat Inspector	e-mail: <u>bryan.barows@sanjoseca.gov</u>					
San Jose Fire Department						
200 E. Santa Clara St., 2nd Fl. Tower						
San Jose, CA 95113						
Ed Tolentino	Tel: (408) 277-8755					
Fire Protection Engineer	Fax: (408) 277-2745					
4 North Second Street, Suite 1000	e-mail: edward.tolentino@ci.sj.ca.us					
San Jose, CA 95113-1305						
Santa Clara Environme	ntal Health Department					
Robin Ward	Tel: (408) 918-1945					
Sr. Hazardous Materials Specialist	e-mail: robin.ward@cep.sccgov.org					
1555 Berger Dr.						
San Jose, CA 95112						
Regional Water Qu	ality 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						
Oakland, CA 94612						
South Bay Wa	ter Recycling					
Pedro Hernandez	Tel: (408) 794-6804					
South Bay Water Recycling	e-mail: <u>pedro.hernandez(a)sanjoseca.gov</u>					
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	e-mail: kimberly.devillier@sanjoseca.gov					
200 E. Santa Clara Street, 7th Floor						
San Jose, CA 95113						
Bay Area Air Quality	Management District					
Jack Broadbent	Tel: (415) 749-5052					
Air Pollution Control Officer	e-mail: jbroadbent@baaqmd.gov					
BAAQMD						
939 Ellis Street						
San Francisco, Ca 94109						
Pacific Gas :	and Electric					
Kris Matulich	Tel: (916) 386-5159					
Customer Service Representative	Fax: (916) 687-1094					
PG&E	e-mail: <u>KEMh@pge.com</u>					
2230 Lake Washington Blvd						
West Sacramento, CA 95691						
Cal-	ISO					
Felix Gonzalez	Tel: (916) 351-2241					
CAL-ISO Outage Coordination	e-mail:					
P.O. Box 639014						
Folsom, CA 95763-9014						
US Environment Protect	tion Agency – Region IX					
US EPA Region IX	Tel: (415) 972-3990					
75 Hawthorne Street	Fax: (415) 947-3579					
San Francisco, CA 94105-3901	e-mail: <u>reo9@epa.gov</u>					

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 Action Plan, EAP. The purpose of the EAP 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.

The EAP 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 EAP for proper response.

4.3 SITE SECURITY AND EMERGENCY RESPONSE

The plant perimeter is surrounded by 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. 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. 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 in the event that 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 on a daily basis to assess container condition. This process can be done remotely via site cameras if necessary.



Metcalf Energy Center, LLC

On-Site Contingency Plan for Unplanned Temporary and Permanent Facility Closure Page: 6 of 10

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FIGURE 1 HAZARDOUS MATERIALS IN REPORTABLE QUANTITIES LOCATED AT METCALF

MATERIAL NAME	MAX DAILY	UNIT OF MEASURE
*MISCELLANEOUS FLAMMABLE LIQUID, CLASS IB	110	GAL
TURBINE OIL 68	7995	GAL
ACETYLENE	1000	CUFT
AQUEOUS AMMONIA	27527	LBS
CALIBRATION GAS (5% CARBON DIOXIDE, 12% OXYGEN, 83% NITROGEN)	435	CUFT
CALIBRATION GAS (NITRIC OXIDE/NITROGEN)	3335	CUFT
CHEMTREAT BL-124	300	GAL
CHEMTREAT BL-153	455	GAL
CHEMTREAT BL-1795	510	GAL
CHEMTREAT CL240	1500	GAL
CHEMTREAT CL4500	1500	GAL
CHEMTREAT P873L	220	GAL
CHEMTREAT RL9007	400	GAL
CONNTECT 6000	55	GAL
COSMOLUBRIC B-230	220	GAL
DEBRIS/RAGS CONTAMINATED WITH PETROLEUM/OIL	100	LBS
DIESEL	572	GAL
ELECTROLYTE	1522	GAL
GASOLINE	55	GAL
HYTRANS 61	56877	GAL
LIQUID PROPANE GAS	50	GAL
MISC LUBE OIL (LUBE OIL STORAGE)	980	GAL
CHEMTREAT BL124	300	GAL
CHEMTREAT RL9007	400	GAL
CHEMTREAT BL1795	400	GAL
NITROGEN	2650	LBS
REOLUBE TURBOFLUID 46B	6650	GAL
SILICONE OIL SH200-50 CS EG	300	GAL
SODIUM CARBNATE	300	LBS
SODIUM HYDROXIDE	55	GAL
SODIUM HYPOCHLORITE 12.5%	8300	GAL
	448	LBS
SULFURIC ACID 93%	42763	LBS
USED OIL	400	GAL



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

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 Action 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 of 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 a number of insurance companies led by Underwriters at Lloyds of London. Liability insurance is provided by Liberty Mutual.

The warranties on the major equipment at MEC have expired.

6.0 UNEXPECTED TEMPORARY CLOSURE

In the event that 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 Generator Facility Interconnection Agreement (GFIA), with PG&E. 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 were 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

In order 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.
- 5) Removal of transmission conductors when they are no longer used or useful.



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- 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 General Manager or designee will notify the San Jose Fire Department and 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 of time following permanent closure, the General Manger 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 location. 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 preactivity 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.

Metcalf Energy Center Plume Log

Cooling Tower Plumes

Date	Start Time	End time	Total Time	Event	Relative Humidity	Temperature	Supplemental Firing (On/Off)	Plume Abatement In Service (Louvers Open)	
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Total Cooling To	ower Plume H	lours:	0:00						
Remedial Actions	s To Be Taken								
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Remedial Act	ions Taken								
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Metcalf Energy Center Plume Log

Cooling Tower Plumes

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No Plume Events in August 2020.					
No Plume Events in September 2020.					
No Plume Events in October 2020.					
No Plume Events in November 2020.					
No Plume Events in December 2020.					
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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 CPMapproved 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	2	2
Discoloration	4	4
Fading	3	3
Loss of Gloss	3	3
Mildew Defacement		1
Moisture Blushing	1	1
Orange Peel	3	3
Wrinkling		1
Chemical Attack		/
High Temperature Attack	2	2
Mottling	1	1
Crackling	1	/
Saponification	1	1
Disbanding (peel/blister)	1	1
Crawling (fish eye)	2	2

Comments:

UNIT: HRSG & Gas Turbine 1

	INLET AIR FILTER HOUSE	TURBINE/ GENERATOR	STACK	SCREENING
Chalking	3	3	1	NA
Erosion/Corrosion	2	ź	1	
Discoloration	4	. 4		
FadinQ	3	3		
Loss of Gloss	3	3		
Mildew Defacement		1	<u> </u>	
Moisture Blushing		1	1	
Orange Peel	1	3	ľ	
Wrinkling	1	1	1	
Chemical Attack	1			······································
High Temperature Attack	3	3	1	
Mottling	2	3		
Crackling		2		
Saponification	1		1	······································
Disbanding (peel/blister)	2	Ц		
Crawling (fish eye)	1	-4	1	

Comments:

.

UNIT: Cooling Tower

	SUPERSTRUCTURE
Chalking	3
Erosion/Corrosion	4
Discoloration	3
Fading	3
Loss of Gloss	
Mildew Defacement	5
Moisture Blushing	
Orange Peel	
Wrinkling	1
Chemical Attack	2
High Temperature Attack	2
Mottling	
Crackling	2
Saponification	3
Disbarİding (peel/blister)	
Crawling (fish eye)	I · · · · · · · · · · · · · · · ·

Comments:

UNIT: HRSG & Gas Turbine 2

	INLET AIR FILTER HOUSE	TURBINE/ GENERATOR	STACK	SCREENING
Chalking	3	3	1	NA
Erosion/Corrosion	2	2	1	
Discoloration	4	4	[
Fading	3	Ц		
Loss of Gloss	3	3	1	
Mildew Defacement	2	3	1	
Moisture Blushing			1	
Orange Peel	1			
Wrinkling			1	
Chemical Attack				
High Temperature Attack	3	3		
Mottling	3	3	1	
Crackling	2	2.		
Saponification			1	
Disbanding (peel/blister)	2		1	
Crawling (fish eye)	2	4	1	, ,

Comments:

UNIT: Water Tanks

	SERVICE/FIRE WATER	DEMINERALIZED WATER
Chalking	1	1
Erosion/Corrosion		1
Discoloration	3	3
Fading	3	3
Loss of Gloss	3	2
Mildew Defacement	4	2
Moisture Blushing	4	2
Orange Peel	l	ł
Wrinkling	2_	ļ
Chemical Attack		
High Temperature Attack	2	2
Mottling	3	3
Crackling	2	2
Saponification	l	
Disbanding (peel/blister)	2	1
Crawling (fish eye)	2	

Comments:

UNIT: Buildings

	ADMINISTRATION	WAREHOUSE
Chalking	2	2
Erosion/Corrosion	2	2
Discoloration	5	5
Fading	4	4
Loss of Gloss	4	Ч
Mildew Defacement	2	
Moisture Blushing	1	1
Orange Peel		
Wrinkling		Ī
Chemical Attack		1
High Temperature Attack	3	3
Mottling	2	2
Crackling	2	2
Saponification	1	1
Disbanding (peel/blister)	2	2
Crawling (fish eye)		}

Comments:

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METCALF ENERGY CENTER 2020 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 of the waste streams generated within the facility, as listed in the table below.

WaaleSheam	Τλχιεε	Planned	Actural
Non-hazardous	Recyclables	Recycle (Off-site)	Recycle (Off-site)
Solid Waste	Non-Recyclables	Landfill	Landfill
Non-hazardous	Sanitary Waste	Sewage Treatment Plant	Sewage Treatment Plant
Liquid Waste	Process Waste Water	Sewage Treatment Plant	Sewage Treatment Plant
Hazardous Liquid Waste	Used Oil	Recycle (Off-site)	Recycle (Off-site)
	Oily Water	Off-site disposal company	Off-site disposal company
	Corrosive Liquid	Off-site disposal company	Off-site disposal company
Hazardous Solid	Used Oil Filters	Recycle (Off-site)	Recycle (Off-site)
	Oily Rags	Off-site disposal company	Off-site disposal company
	Universal Waste	Recycle (Off-site)	Recycle (Off-site)

Metcalf Energy Center

Annual Compliance Report 2020 Water Usage Summary

Recycled Water		
month	consumption (gal)	
January	19,066,520	
February	13,092,992	
March	7,444,844	
April	10,887,140	
May	5,043,764	
June	20,303,712	
July	25,901,744	
August	38,267,680	
September	29,632,020	
October	34,338,436	
November	21,680,780	
December	34,894,200	
Total	260,553,832	

Potable Water		
month	consumption (gal)	
January	6,714,699	
February	6,559,728	
March	4,652,014	
April	5,510,927	
May	4,954,932	
June	10,758,925	
July	7,652,025	
August	7,735,300	
September	7,351,112	
October	7,837,058	
November	7,568,496	
December	9,920,724	
Total	87.215.940	

Metcalf Energy Center

Annual Compliance Report 2020 Water Usage Summary Condition of Certification S&W-1

Recycled Water	
Cooling Tower for Steam Cycle Cooling	260,553,832
Total Gallons 2020	260,553,832
Potable Water	
Condenser Make-Up	31,617,584
Steam Attemperation	29,903,800
Inlet Air Cooling	8,111,219
Domestic	672,582
RO Reject	13,386,752
Filter Backwash	2,677,350
CT Wash Water	431,453
Plant Wash Down	616,362
Total Gallons 2020	87,215,940



Cooling Tower Inspection Checklist

Tower Location Met CALF Owner/Company CALE Owner/Company Contact Signature Company Contact Signature Owner's Tower Designation Maln Cooline Tower Manufacturer Process Served by Tower Design Conditions: GPM	Date Inspected 3/9/20 Inspected by Mike Tucker Chillus Krychty Inspector
Cell No Number of Fan Cells Date Tower was installed	Tower Type: Crossflow D Counterflow D
Condition: 1–Good 2–Keep	an eye on it 3–Needs immediate attention 1 2 3 Comments
Structure	
Casing Material Concrete Structural Material F1berg1055 Fan Deck Material F1berg1055 Stairway Material 1' Ladder Material '' Handrail Material '' Interior Walkway Material '' Cold Water Basin Material Concreate Silt, Debris Buildup	
Water Distribution System	
Water Distribution System Open Basin System Distribution Basin Material Inlet Pipe Material Inlet Manifold Material Flow Control Valves Size Nozzles-Orifice Diameter Size Size Size, Algae, Debris Spray Type System Header Pipe Material Branch Pipe Material ABS Nozzles-Orifice Diameter Size Size Substruct Branch Pipe Material ABS Plassfic Nozzles-Orifice Diameter Size Up spray Down spray	V RUST SPOTS ON PIPING V V V V V V V V V V V V V V V V V V V
Heat Transfer System Fill-Type & Material ABS Plastic Eliminators-Type & Material I/I Louvers-Type & Material Biological Fouling	V Brittle V Louvers 5 lezed V
Use this space to list specific items needing attention:	

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

Mechanical Equipment	12	3 Comments
Speed Reducer Type: Belt 🗅 Gear 💁	Direct Driv	
Belt Drive Unit	r	
Belt Designation	_	
Fan Sheave Designation	_	
Motor Sheave Designation		
Gear Drive Unit		
Manufacturer Amarillo Mo	odel	Ratio
Oil Level: Full 🖬 Add Immedia	tely 🗅	Low, check again soon 🗖
Oil Condition: 🛛 Good 🖬 🦳 Contains Wa	ater 🗅	Contains Metal D Contains Sludge D
Oil Type Used		
Seals		MINON DIL JOCKS OF DINION
Backlash		
Fan Shaft Endplay		
Unusual Noises? No 🕤 Yes 🗅	Action I	Required
Drive Shaft		
Manufacturer Material		
Fan	fiber	•
Fan Type: Propeller 🖬 Blower 🗆		
Manufacturer	Fixed	Pitch 🖬 🖌 Adjustable Pitch 🗅
Diameter	- Numh	per of Blades
Blade Material	4	Fiberalass
Hub Material		
Hub Cover Material		
Blade Assembly Hardware		STAINLESS
Tip Clearance "min "max	- - -	
Vibration Level		
Fan Cylinder Height	-	
Mechanical Equipment Support	- + +	
Oil Fill and Drain Line	- 1	Dil leals as thread is find the
	- 4	- IL INT AT TIVEH des AITHINGS
Vibration Limit Switch	-	
Monufacturar (- 1)and JDE - Tetin	100571	ing house
		1780 Phone 2 4- 60 Main 4000
Name Plate Data: HP <u>250</u>		Pliase <u>3</u> HZ <u>200</u> Volts <u>7000</u>
FLAmpsFrame <u>D</u>	D PUV	
Last Lubrication—Date		5e vial # HP C48633-3
Grease Used—Type	 	Ch. Action Dominad
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		

Marley

Cooling Tower Inspection Checklist

Tower Location Met CAIf	Date inspected $3/9/20$
Owner/Company CALVIA	Inspected by MIKC TUCKer CALPING KING CV
Company Contact	Inspector
Signature	Signature Muho Turk
Owner's Tower Designation MAW Cool	ng Tuwer
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. <u>A</u> Number of Fan Cells <u>10</u>	Tower Type: Crossflow 🛛 Counterflow 🗅
Date Tower was installed	
	1 2 3 Comments
Structure	
Casing Material	
For Dock Material	
Stainway \square Material 1^{1}	
ladder 🛛 Material ^{III}	
Handrail Q Material ¹	
Interior Walkway D Material	
Cold Water Basin Material	4
Silt, Debris Buildup	4

Water Distribution System

Inlet Pipe Material Carbon Stad	4	PA	WT/RU	157 SPG	15
Inlet Manifold Material		-	_	1	
Flow Control Valves S	Size 🖌				
Nozzles-Orlfice Diameter Si	Size	4 7	NOZZIOS	C9925 0	>ff
Silt, Algae, Debris	5	p		0	
Spray Type System					
Header Pipe Material	4				
Branch Pipe Material	4				
Nozzles-Orifice Diameter S	Size				
Up spray D Down spray D					

Е

Fill-Type & Material	ABS MASTIC
Eliminators-Type & Mate	erial ABS RASHIC
Louvers-Type & Materia	ALUMINIUM
Biological Fouling	

4	Brittle - Big hole - 25 mail holes
V	Brittle
14	Lovers Are Slered
4	

Use this space to list specific items needing attention:

Condition: 1—Good 2—Keep	an e	ye	on i	it 3—Needs immediate attention
		2		Commonto
			3	Comments
Polt Drive Unit	eçti	DIIV	e L	1
Polt Designation				
Ean Shoayo Designation				
Mater Shoeve Designation				
Coor Drive Unit		L		
Monufacturer A Makel VD Madel				Datia
Oil Cendition: Cood D Contoine Mater	u 		0	Low, check again soon U
Oil Condition. Good L Contains Water	L.		UC	
	<u> </u>		-	LODKUG Shalf
Seals				Red River - 10 por Joint
		1		
Fan Shaft Endplay				
Unusual Noises? No 🗅 Yes 🗅	Acti	ion	Rec	luired
Drive Shaft Carbon				
Manufacturer Material 41 ber	~			
Fan				
Fan Type: Propeller 🖬 🖌 Blower 🗅				/
Manufacturer	Fi	xed	l Pit	ch 🗹 🛛 Adjustable Pitch 🗅
Diameter	N	umt	ber	of Blades
()	гт			
Blade Material <u>1102031955</u>	4			
Hub Material	4			
Hub Cover Material	4	· 		
Blade Assembly Hardware	4			5791410>>
Tip Clearance" min" max				
Vibration Level	Щ			
Fan Cylinder Height				
Mechanical Equipment Support				
Oil Fill and Drain Line		L	<	MILOV OIL LOAK AT pipe fitting 5
Oil Level Sight Glass	4	-		
Vibration Limit Switch	V			
Motor				
Manufacturer Global XPE-TECO-Wes	itu i	g k	900	50
Name Plate Data: HP 250	RF	PM	17	80 Phase 3 Hz 60 Volts 4000
FLAmps Frame <u>500</u>	<u>'9 î</u>	3_		S F Special Info
Last Lubrication-Date			5	
Grease Used—Type				Sevial # HPC4 8633-1
Unusual Noises? No 🗆	Y	'es	۵	Action Required
Unusual Vibration? No 📮	Y	′es	a	Action Required
Unusual Heat Build-up? No 📮	Ŷ	'es	a	Action Required
	[]	[]		
wake-up valve				
Other Component				
Other Component		L		



SM-CKLIST

Tower Location MetCAIF	Date Inspected 3/9/20	
Owner/CompanyCgipus	Inspected by Mike Tucker CAIPIN King (-1++
Company Contact	Inspector	
Signature	Signature Muts Turks	
Owner's Tower Designation Main Cooling	Tower	
Tower Manufacturer	Model No Serial No	
Process Served by Tower STG cooling	Operation: Continuous D Intermittent D Seasonal	
Design Conditions: GPM HW	°F CW°F WB°F	-
Cell No. <u>3</u> Number of Fan Cells <u>10</u>	Tower Type: Crossflow D Counterflow D	
Date Tower was installed		

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

	1 2 3 Comments
Structure	
Casing Material	
Structural Material Fiber glass	
Fan Deck Material	
Stairway 🗅 Material 🔽 🥤 ч	
Ladder 🖸 Material 🔽 🙂	
Handrail 🖸 Material 🔐 "	<i>с</i>
Interior Walkway 🗅 Material 👱 📢	
Cold Water Basin Material	
Silt, Debris Buildup	

Water Distribution System

Open Basin System		
Distribution Basin Material		
Inlet Pipe Material Carbon Greet	4	RAWY - RUST SPOTS
Inlet Manifold Material		
Flow Control Valves Size		
Nozzles-Orifice Diameter Size		
Silt, Algae, Debris		
Spray Type System		
Header Pipe Material ABS Plastic	V	
Branch Pipe Material ABS PLASTIC	4	
Nozzles-Orifice Diameter Size	U	
Up spray 🖸 Down spray 🗳		
Heat Transfer System	mit	
Fill-Type & Material ABS plas-lic	44	BIHIE
Eliminators-Type & Material	14	BI++1e

Lovars are Slezed

Use this space to list specific items needing attention:

Louvers-Type & Material

Biological Fouling

Condition: 1-Good 2-Keep	an (eye	on i	t 3—Needs immediate attention
Call #3	r	·	T	
Mechanical Equipment	1	2	3	Comments
Speed Reducer Type: Belt Gear Gear Di	rect	Driv	ve C	נ נ
Belt Drive Unit				
Belt Designation				
Fan Sheave Designation				
Motor Sheave Designation				
Gear Drive Unit				
Manufacturer Amgy 110 Model				Ratio
Oil Level: Full Gr Add Immediately				Low, check again soon 🔲
Oil Condition: Good 🗆 Contains Water			Сс	ontains Metal 🗅 Contains Sludge 🗖
Oil Type Used				
Seals		r		MINON OIL LEAK A+ DINION SEAL
Backlash				MILLOW OIL LOAD A M.T
Fan Shaft Endplay				
Unusual Noises? No D Yes D	Ac	tion	Reo	wired
Drive Shaft	7.0			
Manufacturer Material Fiber		ł		· · · · · · · · · · · · · · · · · · ·
	6	1	I	
Fall Fan Tuno: Propellar IV Plawer D				
Monufacturer	Б	luor	1 Die	ah Chivatabla Ditab Ch
	r N	-ixec	и г н Боли	
	IN	Jum	ber (Blades <u>10</u>
		\mathbf{r}		
Blade Material <u>+ 16 evg 1455</u>				
Hub Material				
Hub Cover Material	L.			
Blade Assembly Hardware 519(1985)	Ľ			
Tip Clearance " min" max				
Vibration Level				
Fan Cylinder Height				
Mechanical Equipment Support				
Oil Fill and Drain Line		4		MILON OIL LAKS
Oil Level Sight Glass	V	1_		
Vibration Limit Switch	~	1_		
Motor		• •		
Manufacturer 610691 XPE - Teco - V	Na	-57-	ng	, 1005a
Name Plate Data: HP 256	R	PM	17	86 Phase <u>3</u> Hz <u>60</u> Volts <u>4060</u>
F L Amps Frame 500	9	B		S F Special Info
Last LubricationDate				Sevia1 # HPC 486 32-3
Grease Used—Type				
Unusual Noises? No 🗅		Yes	D	Action Required
Unusual Vibration? No 🗖	ì	Yes		Action Required
Unusual Heat Build-up? No 📮	v	Yes	Q	Action Required
·				· · · · · · · · · · · · · · · · · · ·
Make-up Valve		Ι		
Other Component				
Other Component		Τ		
			المستحصا	

3



Met Calf Owner/Company Calping Company Contact Signature Owner's Tower Designation ST G		Date Inspected Inspected by Inspector Signature	Mille Mille	T	20 icver c uber	<u>a Pl</u> u	e King	<u></u> tJ
Tower Manufacturer		Model No.			Serial No			
Process Served by Tower		Operation:	Continuous		Intermittent	_ ۵	Seasonal	D .
Design Conditions: GPM H	HW	°F	CW		°F WB		° F	
Cell No. <u>4</u> Number of Fan Cells <u>10</u> Date Tower was installed	0	Tower Type:	Crossflow	Q	Counterf	low 🗆	l	
Condition: 1–Good 2–	Keep a	in eye on it 3	-Needs imm	nedia	te attention			
		1 2 3			Comments			
Structure		h 						<u> </u>
.								

Casing Ma	ateria	.1					
Structural	Mate	erial	Fiber glass				
Fan Deck	Mate	erial	Fibe	erglass			
Stairway	Q	Material	ષ	<u> </u>			
Ladder	ū	Material	11	1C			
Handrail	D	Material	k	τα			
Interior Walkway 🗅 Material 🛝 🔽							
Cold Water Basin Material							
Silt, Debris	s Bui	ldup					

1	2	3	Comments
2	Γ.		
2			
レ			
V	1		
~	•		
2			
2			
2			

Water Distribution System

Open Basin System	
Distribution Basin Material	4
Inlet Pipe Material Carbon Sicel	۲
Inlet Manifold Material	
Flow Control Valves Size	
Nozzles-Orifice Diameter Size	L Tightered All retaining hose clamps
Silt, Algae, Debris	4 Chaye 7 10072105
Spray Type System	· · · · · · · · · · · · · · · · · · ·
Header Pipe Material ABS Plasauc	
Branch Pipe Material <u>ABS plastic</u>	4
Nozzles-Orifice Diameter	
Up spray 🖸 Down spray 📮	
Heat Transfer System	
Fill-Type & Material <u>ABS P 145tic</u>	4 Brittle
Eliminators-Type & Material	4 Brittle
Louvers-Type & Material <u>9</u> UMINIUM	4
Biological Fouling	

Use this space to list specific items needing attention:

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

Cell 4	ү ап еу	e un	
Mechanical Equipment	1	2 3	Comments
Speed Reducer Type: Belt 🖸 Gear 🗹	Direct D	rive (<u> </u>
Belt Drive Unit			
Belt Designation			
Fan Sheave Designation			
Motor Sheave Designation			
Gear Drive Unit	L		
Manufacturer A mq villo Moo	lel		Ratio
Oil Level: Full G Add Immediate	ely 🗖		Low, check again soon 🖸
Oil Condition: Good 🗅 Contains Wat	ter 🗅	С	ontains Metal D Contains Sludge D
Oil Type Used		_,	
Seals	1		MINOV OIL ARAIL AT LOPOT SHAL
Backlash			
Fan Shaft Endplay			
Unusual Noises? No 🗅 Yes 🗅	Actio	n Re	quired Q11 SAMPIC / OIL fill INS pipe leak A
Drive Shaft Tureq d	L CON	Nac	TIONS MUSHY OUTSIDE Call
Manufacturer Material			/
Fan			
Fan Type: Propeller 🕑 🖉 Blower 🔾			•
Manufacturer	Fixe	ed Pi	tch 🖬 🖌 Adjustable Pitch 🗅
Diameter	Nur	nber	of Blades 10
			,
Blade Material <u>Fiber 94455</u>	4		
Hub Material	4		
Hub Cover Material	4		
Blade Assembly Hardware Stainless	4		
Tip Clearance" min" max			
Vibration Level			
Fan Cylinder Height			
Mechanical Equipment Support			
Oil Fill and Drain Line	L u	1	MINOV LEAKS AT PIPE THREADS
Oil Level Sight Glass			
Vibration Limit Switch			
Motor			
Manufacturer Global XPE-TECO-1	Nest	ing	
Name Plate Data: HP250	RPN	N17	180 Phase 3 Hz 60 Volts 4000
F L Amps Frame			S F Special Info
Last Lubrication—Date			Serval # HP < 48/032-2
Grease Used—Type			
Unusual Noises? No 🗅	· Ye	s 🗅	Action Required
Unusual Vibration? No 🖸	Ye	s 🗅	Action Required
Unusual Heat Build-up? No 🗅	Ye	s 🗅	Action Required
Make-up Valve			
Other Component			
Other Component			1



Tower Location <u>MetCalf</u> Owner/Company <u>Calpine</u>	Date Inspected Inspected by MIKe Tucker
Company Contact	Inspector
Signature	Signature Muke Tuuken
Owner's Tower Designation へいい くいい	Wg Tower
Tower Manufacturer	Model No Serial No
Process Served by Tower 576 Stam CON.	de Operation: Continuous 🗆 Intermittent 🔍 Seasonal 🗅
Design Conditions: GPM HW _	°F CW°F WB°F
Cell No. <u>5</u> Number of Fan Cells <u>10</u>	Tower Type: Crossflow 🖵 Counterflow 🛛
Date Tower was installed	
Condition: 1–Good 2–Keep	p an eye on it 3–Needs immediate attention

	1	2	3	Comments
Structure				
Casing Material				
Structural Material Fiber glASS	~	-		
Fan Deck Material	V	-		
Stairway 🖬 Material 🔢 😯	4	-		
Ladder Gr Material	4			
Handrail 🖓 Material 👘 🕻	4			
Interior Walkway 🛛 Material 🗽 🕚	4	-		
Cold Water Basin Material	4	-		
Silt, Debris Buildup	-			

Water Distribution System

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Open Basin System	
Distribution Basin Material	7
Inlet Pipe Material	
Inlet Manifold Material Carbon Steel	
Flow Control Valves Size	
Nozzles-Orifice Diameter Size	4 Tightened All CLAMPS
Silt, Algae, Debris	4
Spray Type System	
Header Pipe Material 6 ABS PASTIC	
Branch Pipe Material A&S Plastic	
Nozzles-Orifice Diameter Size	
Up spray 📮 Down spray 🔍	
Heat Transfer System	
Fill-Type & Material A 3 7 14 STIC	
Eliminators-Type & Material	4 Brittle
Louvers-Type & Material Aluminium	4 Britte mit loververs Selzes
Biological Fouling	4

Use this space to list specific items needing attention:

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

Cell #5

Mechanical Equipment	1 2 2 Commente
Speed Beducer Type: Belt D Geer D	
Belt Drive Unit	
Belt Designation	
Ean Sheave Designation	
Mater Choove Designation	
Coor Drive Upit	
Gear brive office $\Delta (0, \alpha_1, \lambda)$	D. D. D.
Oil Level: Full U Add Immediate	IV LOW, Check again soon L
	er 🖵 Contains Wetal 🖵 Contains Sludge 🗋 🔨
Oil Type Used	
Seals	V MINOR I BAKS AT IN PUT SWALL
Backlash	
Fan Shaft Endplay	
Unusual Noises? No 🗆 Yes 🗖	Action Required OII SAMPLE / Fill I wes Jeak
Drive Shaft 9+ PipeT	Nradd UUT Side OF TOwer
Manufacturer Material	
Fan	>> -
Fan Type: Propeller 🗹 🛛 Blower 🗅	
Manufacturer	Fixed Pitch Adjustable Pitch
Diameter	Number of Blades 10
Hub Material Hub Cover Material Blade Assembly Hardware 5741//1054 Tip Clearance Tip Clearance "min "min "min Wibration Level Fan Cylinder Height Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Flace Data: HP 250 F L Amps Last LubricationDate	$\frac{1}{12}$
Grease Used—Type	
Unusual Noises? No 🗅	Yes D Action Required
Unusual Vibration? No 🗖	Yes D Action Required
Unusual Heat Build-up? No 🗅	Yes D Action Required
Make-up Valve	
Other Component	
Other Component	



SM-CKLIST

boots champs

Owner's rower besignation /// 4/.3 C do l / 2 (20 (20 g)) 0 (20 g) Tower Manufacturer Model No. Serial No. Process Served by Tower Stack m C 0/ 3 (20 / 2 (2	Tower Location Met Calt Owner/Company <u>CALRINE</u> Company Contact Signature	Date Inspected Inspected by <u>MIVC TUCKOr</u> Inspector Signature <u>Muba Tucku</u>
Noder No. Serial No. Process Served by Tower Starway Structural Material Number of Pan Cells 1 2 Structure Casing Material Structural Material Number of Material 1 Model No. Structural Material Number of Material 1 Model No. 1 Conditions: 1 Condition: 1 Model No. 0 For Comparison of Formation 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Condition: 1 Con	Juner's Tower Designation //Tal. C. COT. 49	
Process Served by rower Starw Cop Scrucer Copperation: Continuous I Intermittent I Seasonal Design Conditions: GPM HW °F Cell No. (o) Number of Fan Cells IQ Tower Type: Crossflow I Counterflow I Date Tower was installed I I Condition: 1-Good 2-Keep an eye on it Structure I 2 Casing Material F Structural Material F Naterial I I I		Viodel No Senal No
Cell No. Outputtons. Cell No. Outputtons. Date Tower of Fan Cells IO Tower Type: Crossflow Condition: 1-Good 2-Keep an eye on it 3-Needs immediate attention Image: Condition: 1-Good Condition: 1-Good Condition: 1-Good Condition: 1-Good Tower Type: Crossflow Counterflow Condition: 1-Good Condition: 1-Good Image: Condition: 1-Good Tower 3-Needs immediate attention Immediate attention Immediate attention Immediate attention Immediate attention	Design Conditions: CDM	Copperation: Continuous L Intermittent L Seasonal L
Date Tower was installed Condition: 1-Good 2-Keep an eye on it 3-Needs immediate attention 1 2 3 Comments Condition: 1-Good 2-Keep an eye on it 3-Needs immediate attention 1 2 3 Comments Condition: 1-Good 2-Keep an eye on it 3-Needs immediate attention 1 2 3 Comments 1 1 2 3 Comments 1 2 3 Comments 1 1 2 3 Comments 1 1 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 <t< td=""><td>Cell No. (O. Number of Ean Colloc. 10</td><td>Tower Tune: Creation D Counterflow D</td></t<>	Cell No. (O. Number of Ean Colloc. 10	Tower Tune: Creation D Counterflow D
Condition: 1-Good 2-Keep an eye on it 3-Needs immediate attention I I I I Comments Structure I <t< td=""><td>Date Tower was installed</td><td>Tower type. Crossilow a Countenilow a</td></t<>	Date Tower was installed	Tower type. Crossilow a Countenilow a
Structural Material Fan Deck Material I I Stairway Material I	Structure	1 2 3 Comments
Structural Material I Jev Gat A>> Fan Deck Material II II Stairway Imaterial II Ladder Imaterial II Handrail Imaterial II Interior Walkway Imaterial Imaterial		
Stairway Material 11 11 Ladder Material 11 11 Handrail Material 11 11 Interior Walkway Material 11 11	Fan Deck Material	
Ladder D Material '' '' '' '' '' '' '' '' '' '' '' '' ''	Stainway D Material II II	
Handrail D Material V V Interior Walkway Material V V	Ladder \Box Material $\frac{1}{1}$ $\frac{1}{1}$	4
Interior Walkway 🗹 Material 11 11	Handrail D Material	4
	Interior Walkway 🗹 Material <u>11 11</u>	
Cold Water Basin Material	Cold Water Basin Material	
Silt, Debris Buildup	Silt, Debris Buildup	
Water Distribution System Open Basin System	Nater Distribution System Open Basin System	
Distribution Basin Material	Distribution Basin Material	

Up spray Down spray D Heat Transfer System Fill–Type & Material <u>ABS PIASK</u> Eliminators–Type & Material

LO

Inlet Manifold Material

Nozzles-Orifice Diameter

Header Pipe Material

Nozzles-Orifice Diameter

Louvers-Type & Material

Biological Fouling

Branch Pipe Material

Flow Control Valves

Silt, Algae, Debris Spray Type System 11

Plastic

k

1

Size

Size

Size

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ABS

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1	- <u></u>		 ··· · · · · · · · · · · · · · · · · ·	
	4	Brittle	 	_

Slezed

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NOZLICS

Tightened All clamps

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charg

10w vers

Use this space to list specific items needing attention:

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

Ce11#6

echanical Equipment	1 2 3	Comments
peed Reducer Type: 🛛 Belt 🖬 🛛 Gear 🖭 🗌 🛛	irect Drive ם	
Belt Drive Unit	·	
Belt Designation		
Fan Sheave Designation		
Motor Sheave Designation		
Gear Drive Unit		
Manufacturer Amarillo Mod	el	Ratio
Oil Level: Full D Add Immediate	y 🖬 🖌 L	_ow, check again soon □
Oil Condition: Good 🗆 Contains Wate	er 🗆 🛛 Cor	ntains Metal 🗅 Contains Sludge 🗅
Oil Type Used		
Seals	V	MINON LEAK At IN pot Shalt
Backlash		
Fan Shaft Endplay		
Unusual Noises? No 🖬 Yes 🗖	Action Requ	uired OIL fill / SAMPIC live PIPING Leat
Drive Shaft		9+ Pipe Threads
Manufacturer Material Fiber	2	
Fan	tt	
Fan Type: Propeller 🛛 Blower 📮		
Manufacturer	Fixed Pitc	h 🖬 🖌 Adjustable Pitch ם
Diameter	Number o	f Blades 10
Blade Assembly Hardware Tip Clearance " min " max Vibration Level Fan Cylinder Height	-	
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch		
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor		
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Global XPE Teco-	Westug	housa
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Global XPE Teco- Name Plate Data: HP250	Westug RPM/78	hous 30 Phase 3 Hz 60 Volts 4000
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Global XPE Teco- Name Plate Data: HP250 F L Amps Frame 500	Westug RPM (7) 9 3	$hous^{n}$ $\underline{30}$ Phase $\underline{3}$ Hz $\underline{60}$ Volts $\underline{4000}$ S F Special Info.
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Global XPE Teco- Name Plate Data: HP250 F L Amps Frame 500 Last Lubrication-Date Grease Used-Type	Westug RPM <u>178</u> 9 B	hous? 80 Phase <u>3</u> Hz <u>60</u> Volts <u>4000</u> SF Special Info. evia I # HPC 48633-5
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Global XPE Teco- Name Plate Data: HP 250 F L Amps Frame 500 Last LubricationDate Grease UsedType Unusual Noises? No D	Wastug RPM [78 99 B 99 S	hous? 80 Phase <u>3</u> Hz <u>60</u> Volts <u>4000</u> SFSpecial Info evia I H H P C 4 8 6 3 3 - 5 Action Required
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Global XPE Teco- Name Plate Data: HP 250 F L Amps Frame 50 C Last LubricationDate Grease UsedType Unusual Noises? No I Unusual Vibration? No I	Westug RPM <u>178</u> 9 Yes 0 Yes 0	house 3_{Hz} 60_{Volts} 80_{Phase} 3_{Hz} 60_{Volts} 4000_{SF} $SF_{SPecial Info.}$ $evial H HPC 48633-5^{SP}$ Action Required
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Global XPE Teco- Name Plate Data: HP250 F L Amps Frame 500 Last LubricationDate Grease UsedType Unusual Noises? No Unusual Vibration? No Unusual Heat Build-up? No	Ves C Yes C Yes C	$\frac{1}{80} \qquad Phase \underline{3} \qquad Hz \underline{60} \qquad Volts \underline{4000}$ SFSpecial Info. $evia I \qquad HPC48633-5$ Action Required Action Required Action Required
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Global XPE Teco- Name Plate Data: HP250 F L Amps Frame 500 Last LubricationDate Grease UsedType Unusual Noises? No Unusual Vibration? No Unusual Heat Build-up?	Ves C Yes C Yes C	$\frac{1}{80} Phase \underline{3} Hz \underline{60} Volts \underline{4000}$ SFSpecial Info. $\frac{2\sqrt{191} H H P C 4 8 6 3 3 - 5}$ Action Required Action Required Action Required
Mechanical Equipment Support Oil Fill and Drain Line Oil Level Sight Glass Vibration Limit Switch Motor Manufacturer Global XPE Teco- Name Plate Data: HP250 F L Amps Frame 500 Last Lubrication-Date Grease Used-Type Unusual Noises? No I Unusual Vibration? No I Unusual Heat Build-up? No I	Westug RPM 175 9 B 9 Yes 0 Yes 0 Yes 0	hous? 80 Phase 3 Hz 60 Volts $4000SF Special Info.eviq 1 # HPC48633-5Action RequiredAction RequiredAction Required$



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Tower Location Met Calf Owner/Company <u>CALPINE</u>	Inspected MILLe TUCKEY
Company Contact	Inspector
Signature	Signature Muhe Turks
Owner's Tower Designation	
Tower Manufacturer	Model No Serial No
Process Served by Tower STEAm Conder	Sev Cool Apperation: Continuous I Intermittent I Seasonal I
Design Conditions: GPM	HW°F CW°F WB°F
Cell No Number of Fan Cells	Counterflow
Date Tower was installed	
Condition: 1–Good	2–Keep an eye on it 3–Needs immediate attention
	1 2 3 Comments
Structure	·
Cooling Motorial	

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4
4
4
4
TighterelAll NOZZIE / COupling clamp
V/

Fill-Type & Material	ABS	PLASTIC	L	-	
Eliminators-Type & Material		1		~	Brittle
Louvers-Type & Material	JUMINIC	m		2	lowvers seized
Biological Fouling			レ		

Use this space to list specific items needing attention:

 $Cell \pm 7$ Condition: 1-Good 2-Keep an eye on it 3-Needs immediate attention

	······
Aechanical Equipment	1 2 3 Comments
Speed Reducer Type: 🛛 Belt 🖬 🛛 Gear 🗹 Di	Direct Drive 🗖
Belt Drive Unit	
Belt Designation	
Fan Sheave Designation	
Motor Sheave Designation	
Gear Drive Unit	
Manufacturer AMarillo Mode	el Ratio
Oil Level: Full D Add Immediately	ly Low, check again soon
Oil Condition: Good 🖬 Contains Water	er 🗆 Contains Metal 🗅 Contains Sludge 🗅
Oil Type Used	
Seals	MINOR LOAK AT WOUT SHAFT
Backlash	
Ean Shaft Endplay	
Linusual Noises? No D Yes D	Action Bequired OII fill / Sample live leaking AT DI
Drive Shaft	fitthe S AUTSIDE OF TOWER
Manufacturar Material	
Fan Type: Propeller F Riewer D	
Manufacturar	Fixed Ditch D
	Number of Plades 16
Diameter	Number of Blades 10
to be a late	
Blade Material <u>FIDErginss</u>	
Hub Material	
Hub Cover Material	
Blade Assembly Hardware STANN 1855	4
Tip Clearance" min" max	
Vibration Level	
Fan Cylinder Height	
Mechanical Equipment Support	
Oil Fill and Drain Line	4
Oil Level Sight Glass	
Vibration Limit Switch	
Motor	1
Manufacturer Global XPE-TECO-	West wg norreg
Name Plate Data: _ HP 250	RPM 1780 Phase 3 Hz 60 Volts 4000
FLAmps 31.5 Frame 500	SFSpecial Info.
Last Lubrication-Date	Serial #
Grease UsedType	HPC48832-5
Unusual Noises? No 🗆	Yes Q Action Required
Unusual Vibration? No 🗅	Yes 🗅 Action Required
Unusual Heat Build-up? No D	Yes 🔾 Action Required
laka un Valva	
iane-up valve	



Tower Location Metcalf Owner/Company CALPINE Company Contact Signature	Date Inspected Inspected by <u>Mike Tucker</u> Inspector Signature <u>Muhe Tucker</u>
Owner's Tower Designation	y 100er
Tower Manufacturer	Model No Serial No
Process Served by Towe Stan Condensar Cooling	Operation: Continuous 🛛 Intermittent 🔍 Seasonal 🔾
Design Conditions: GPM HW	°F CW°F WB°F
Cell No. <u>8</u> Number of Fan Cells <u>10</u>	Tower Type: Crossflow 🗅 Counterflow 🗅
Date Tower was installed	

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

	1 2 3 Comments
Structure	· · · · · · · · · · · · · · · · · · ·
Casing Material	
Structural Material Fiber Q1955	
Fan Deck Material	4
Stairway & Material 11 II	4 –
Ladder 🗛 Material 🔐 🔢	4
Handrail 🔍 Material	4
Interior Walkway 🛛 Material ^k 🕻	4
Cold Water Basin Material	4
Silt, Debris Buildup	4
Water Distribution System	
Open Basin System	
Distribution Basin Material	
Inlet Pipe Material Carbon Steel	UT I
Inlet Manifold Material	
Flow Control Valves Size	4
Nozzles-Orifice Diameter Size	V Tightened All NOZZIe /200pluy Clams
Silt, Algae, Debris	4
Spray Type System	
Header Pipe Material 6'ABS PASTE	9
Branch Pipe Material ABS 71451C	4
Nozzles-Orifice Diameter Size	
Up spray 🖸 Down spray 🗣	
Heat Transfer System	
Fill-Type & Material ABS Plastic	И
Eliminators-Type & Material	V Brittle
Louvers-Type & Material A) WINIUM	V LOWVARD Selfed
Biological Fouling	

Use this space to list specific items needing attention:

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

Cell #8

echanical Equipment	1	2	3		Comments	
beed Reducer Type: Belt 🖬 Gear 💁	Direct	: Driv	e C]		
Belt Drive Unit				-		
Belt Designation						
Fan Sheave Designation						
Motor Sheave Designation						
Gear Drive Unit	ł	11	l			=
Manufacturer Am ave 10 Mod	del			B	atio	
Oil Level: Full □ Add Immediate	elv nau	/		Low check	again soon	
Oil Condition: Good D Contains Wa	ter 🗆		Co	ntains Metal	D Contains	Sludae 🗅
Oil Type Used					-	
Seals		U	-	MINOV	LOAK AT INGU	+ shaft
Backlash						
Ean Shaft Endnlay		$\left\{ -\right\}$				
		tion l	L Bog	wired 0.1	Eill / Gaminie	hun Loakun A
	70		ېې ټ	pipe fil	+120 6	N has look
Manufacturar Matrialera Wsc	L	T	-†			an por total
	L	<u> </u>	l.			
Fan Type: Propeller Propeller Blower D	,					
Mapufacturer	E	livod	Dit	oh Ø	Adjustable Ditch D	
Diameter	י א	I. m	1 10	of Dieden		
	•					
Plada Matorial FL bar aloch	6	FI	T			
	4		-+			······
Hub Cover Material	L		\dashv		· · · · · · · · · · · · · · · · · · ·	
Blade Assembly Hardware Staw Jass	L	-	\neg			
Tip Cloaranco "min "may						
Wibrotion Lovel	L					
Fon Ovlinder Height	F	┼╌┤				······
Machanical Equipment Support	1	5				
Oil Fill and Drain Line						
	Ĭ	$\left \right $				
Viluation that Contain	-	<u> </u>				
	L					
Manufacturer Glabal JPE-TECON	we	5+1	y	house		
Name Plate Data UD 250	-		יי	<u>80</u>	3 11-1	0 Voltalian
Name Plate Data: $HP \land 30$	н	17" IVI _	. /	<u>~</u> PI	ase FIZ _	Voits 400
FLAmps 21 Frame			r			
			ל	er iui #	DALLA 1-2	2-11
Grease Used—Type		Vea	-	h Antion D		, <u> </u>
		res		Action R	equirea	
Unusual Vibration? No		Yes	u c	Action R	equired	
Unusual Heat Build-up? No 🗅		Yes	u	Action Re	equired	
leter on Maker	[1-1				
ake-up valve						
		+-+				
	i	1	. 1			



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Cooling Tower Inspection Checklist

SM-CKLIST

Tower Location Metcalf	Date Inspected	1		
Owner/Company <u>CALTINえ</u>	Inspected by	Mike	Tucker	
Company Contact	Inspector			
Signature	Signature	mile 1	Tube	
Owner's Tower Designation Maw	Cooling Tower			
Tower Manufacturer	Model No.		Serial No.	
Process Served by Tower STOAm CON Jen	ser Coolypperation:	Continuous 🛛	Intermittent 🛛	Seasonal 🛛
Design Conditions: GPM	HW°F	CW	°F WB	• F
Cell No Number of Fan Cells	Tower Type:	Crossflow 🖸	Counterflow (L L
Date Tower was installed				

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

	1 2 3	Comments
Structure		
Casing Material		
Structural Material Fiber glass		
Fan Deck Material	-	
Stairway 🗆 Material 🏦 🔢	4	
Ladder O Material 11 11	И	
Handrail 🗆 Material 🥂 👢	4	
Interior Walkway D Material 1 4	U I	
Cold Water Basin Material CONCVELE	4	
Silt, Debris Buildup		
Water Distribution System		
Open Basin System		
Distribution Basin Material		
Inlet Pipe Material Carbon Gleal		
Inlet Manifold Material		
Elow Control Valves Size	V	

Distribution Basin Material		
Inlet Pipe Material Carbon 54	leel	
Inlet Manifold Material	tr.	4
Flow Control Valves	Size	
Nozzles-Orifice Diameter	Size	V Tightared All NOZZIE / Coupling ch
Silt, Algae, Debris		V
Spray Type System		
Header Pipe Material	ASTIC	ИП
Branch Pipe Material ABS 7	(ASty	1 Tightend All Nozzles/ Coupling Cl
Nozzles-Orifice Diameter	Size	
Up spray 🖸 Down spray 🗖		Change I Nozzie
Heat Transfer System	(· ·
Fill-Type & Material ABS 1	ASC.	И
Eliminators-Type & Material		4 Brittle
	() (41	1 lowvers 5 lezed
Louvers-Type & Material /4 / VMI ~ V	• · ·	

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

Call #9

Mechanical Equipment	1	2	3	Comments
Speed Reducer Type: Belt 🗅 Gear 🗹 Di	rect	Driv	ve Ç)
Belt Drive Unit				
Belt Designation				
Fan Sheave Designation				
Motor Sheave Designation				
Gear Drive Unit	L		4	
Manufacturer Amarillo Mode	I			Ratio
Oil Level: Full Add Immediately				Low, check again soon
Oil Condition: Good 🖬 Contains Water	· 0		Co	ontains Metal
Oil Type Used				ũ
Seals				
Backlash				
Fan Shaft Endplay		1		
Unusual Noises? No D Yes D	Ac	tion	Rec	juired
Drive Shaft				•
Manufacturer Material	L	\square		
Fan				
Fan Type: Propeller 🗗 🛛 Blower 🗅				
Manufacturer	F	ixed	d Pit	ch 🕑 🖌 Adjustable Pitch 🗅
Diameter	١	Jum	ber	of Blades 10
Blade Material Fiber alass	L	\square		
Hub Material	L	1		
Hub Cover Material	L	$\langle \rangle$		
Blade Assembly Hardware STAW 1855	L	\vdash	-	
Tip Clearance" min" max				
Vibration Level	L	\square		
Fan Cylinder Height				
Mechanical Equipment Support	L			
Oil Fill and Drain Line		Ĺ		
Oil Level Sight Glass	Ľ			
Vibration Limit Switch				
Motor				MULLI AFN (- WITON 2
Manufacturer Global XPE-TECO-Wes	T1/	лд	ho	use model menogio 1002
Name Plate Data: HP 250	R	PM	17	86 Phase <u>3</u> Hz <u>60</u> Volts <u>4006</u>
FLAmps 31-5 Frame 500	9	B	_	S F Special Info
Last LubricationDate				Senial # HPC48632-2
Grease Used—Type			-	
Unusual Noises? No 🗅		Yes	ü	Action Required
Unusual Vibration? No 📮		Yes		Action Required
Unusual Heat Build-up? No 🗅		Yes	۵	Action Required
	г—	Ţ	<u>, </u>	
Make-up Valve	-		$\left - \right $	
Other Component		+		
Other Component				•



SM-CKLIST

Tower Location <u>Met C 9 に</u> Owner/Company <u>CALアルと</u> Company Contact		Date Inspected Inspected by Inspector	MIK	1	Tucker	•		
Signature		Signature	mite	T,	mpso			
Owner's Tower Designation Maw	Coolu	1 TO We	r					
Tower Manufacturer		Model No.			Serial No.			
Process Served by Tower		Operation:	Continuous		Intermittent	Q	Seasonal	Q
Design Conditions: GPM	HW	° F	CW		_°F WB		• F	:
Cell No. <u>10</u> Number of Fan Cells	10	Tower Type:	Crossflow	۵	Counterflo	w D	_	
Date Tower was installed								

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

	1 2 3 Comments
Structure	
Casing Material	
Structural Material Fibes glass	
Fan Deck Material	4
Stairway 🖬 Material 🔤 🔢 🕅	
Ladder 🗹 Material 🚺 🕅	
Handrail 🗹 Material 👘 🗤	4
Interior Walkway 🛛 Material 🛄 🗸	
Cold Water Basin Material	4
Silt, Debris Buildup	4

W

Nozzles-Orifice Diameter

Up spray D Down spray

concrea					
CAVYON	1 gravel				
10	u				
	Size				
	Size				
line	a				
" A 6 7	PLASTIC				
ABS	PLASHIC				
	CON CAVION IL HABS ABS				

4	TT	 	 		
4		_			
4		 			
4					



Heat Transfer System	
Fill-Type & Material ABS PLASTL	4
Eliminators-Type & Material	4 Brittle
Louvers-Type & Material Alumivium	4 Lowvers Stazed
Biological Fouling	

Use this space to list specific items needing attention:

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

CE11#10

	ſ		1	· · · · · · · · · · · · · · · · · · ·
Mechanical Equipment		1 2	3	Comments
Speed Reducer Type: Belt 🖸 Gear 🗹	Dire	ect Driv	ve	נ
Belt Drive Unit			·	
Belt Designation	.		Ļ	
Fan Sheave Designation	.			
Motor Sheave Designation	. [
Gear Drive Unit				
Manufacturer Amarillo Mo	del_			Ratio
Oil Level: Full 🖬 Add Immediate	ely	g/		Low, check again soon 🏾
Oil Condition: 🛛 Good 🗖 🛛 Contains Wa	iter	0	Сс	ontains Metal D Contains Sludge D
Oil Type Used				
Seals		V		
Backlash				
Fan Shaft Endplay				
Unusual Noises? No 🖬 Yes 🗖		Action	Rec	juired OIL fill / SAMpic live lacking of
Drive Shaft				PIPMy Thready
Manufacturer Material	5 [4		
Fan			·	
Fan Type: Propeller @ Blower				
Manufacturer		Fixed	d Pit	ch Grand Adjustable Pitch Q
Diameter		Num	her	of Blades 10
	_			
Blade Material Fiber grass	ſ	X		
Hub Material	<u>ר</u>	4		
Hub Cover Material		4		
Blade Assembly Hardware STAW 1955		4		
Tip Clearance" min" max				
Vibration Level		4		
Fan Cylinder Height				
Mechanical Equipment Support		4		
Oil Fill and Drain Line		~		
Oil Level Sight Glass		5		
Vibration Limit Switch		4		
Motor				
Manufacturer Grobal XPE-Teco W	e st	ing 1	ეკი	be Modol AFHG WTOOL
Name Plate Data: HP 250	•	RPM	17	80 Phase 3 Hz 60 Volts 4000
FLAmps 31.5 Frame 5	00	9B		S F Special Info.
Last Lubrication—Date			<u> </u>	Parial # 110 648 632-1
Grease Used—Type			. /	Ht Ht
Unusual Noises? No D		Yes		Action Required
Unusual Vibration? No		Yes	a	Action Required
Unusual Heat Build-up? No 🗆		Yes		Action Required
			-	• • • • •
Make-up Valve	ſ			
Other Component	-			
Other Component	-			1
	. L			

METCALF ENERGY CENTER, LLC TRANS-3 HAZARDOUS MATERIAL DELIVERIES

JANUARY									
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM					
NORTHSTAR CHEMICAL	SULFURIC ACID 93%	1/20/2020	49,980	LBS					
UNIVAR SOLUTIONS	BLEACH	1/12/2020	45,001	LBS					
HILL BROTHERS	AQUEOUS AMMONIA	1/23/2020	50,317	LBS					
HILL BROTHERS	AQUEOUS AMMONIA	1/10/2020	50,325	LBS					
HILL BROTHERS	AQUEQUS AMMONIA	1/16/2020	50.324	LBS					
		1/3/2020	50 317	LBS					
	RI 152	1/20/2020	2 157	IBS					
CHEMITREAT		1/23/2020	2,137						
	BL132	1/31/2020	1,004						
CHEMITREAT	CL240	1/10/2020	2,370	LBS					
	FEDRILADY								
	FEBRUARY			LIOM					
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM					
UNIVAR SOLUTIONS	BLEACH	2/12/2020	45,002	LBS					
HILL BROTHERS	AQUEOUS AMMONIA	2/15/2020	50,324	LBS					
HILL BROTHERS	AQUEOUS AMMONIA	2/27/2020	50,332	LBS					
HILL BROTHERS	AQUEOUS AMMONIA	2/11/2020	50,317	LBS					
CHEMTREAT	BL152	2/5/2020	1,684	LBS					
CHEMTREAT	BL152	2/6/2020	2,823	LBS					
	МАРСН								
	CHEMICAL	RECEIVED	OLIANTITY	LIOM					
		2/10/20	E0 217						
		3/19/20	42 559						
HILL BRUTHERS		3/20/20	43,558	LBS					
CHEMIREAT	RL9007	3/9/20	1,084	LBS					
CHEMTREAT	BL152	3/10/20	1,684	LBS					
	APRIL								
VENDOR NAME	CHEMICAL	RECEIVED	QUANITY	UOM					
HILL BROTHERS	AQUEOUS AMMONIA	4/13/2020	50,317	LBS					
HILL BROTHERS	AQUEOUS AMMONIA	4/6/2020	50,354	LBS					
	MAY								
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM					
NORTHSTAR CHEMICAL	SULFURIC ACID 93%	5/14/2020	49,680	LBS					
HILL BROTHERS	AQUEOUS AMMONIA	5/27/2020	50,474	LBS					
	JUNE								
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM					
NORTHSTAR CHEMICAL	SULFURIC ACID 93%	6/27/2020	49.120	LBS					
	BLEACH	6/4/2020	45 450	LBS					
	BLEACH	6/29/2020	<u>⊿</u> 7 ∩01	LBS					
		6/25/2020	47,0JI						
		6/17/2020	40,022						
		6/1//2020	50,752	LDC					
		6/5/2020	50,362	LBS					
CHEMTREAT	CL240	6/4/2020	2,370	LBS					
CHEMTREAT	CL4500	6/2/2020	5,065	LBS					

VENDOR NAME CHEMICAL RECEIVED GUANTITY UOM NORTHSTAR CHEMICAL SULFURIC ACID 93% 7/24/2020 49,000 LBS NUNIVAR SOLUTIONS BLEACH 7/23/2020 49,900 LBS HILL BROTHERS AQUEOUS AMMONIA 7/9/2020 50,317 LBS HILL BROTHERS AQUEOUS AMMONIA 7/17/2020 48,815 LBS HILL BROTHERS AQUEOUS AMMONIA 7/24/2020 48,815 LBS NORTHSTAR CHEMICAL SULFURIC ACID 93% 8/18/2020 49,540 LBS. NORTHSTAR CHEMICAL SULFURIC ACID 93% 8/18/2020 49,540 LBS. UNIVAR SOLUTIONS BLEACH 8/21/2020 44,991 LBS. UNIVAR SOLUTIONS BLEACH 8/26/2020 50,317 LBS. HILL BROTHERS AQUEOUS AMMONIA 8/10/2020 50,331 LBS. HILL BROTHERS AQUEOUS AMMONIA 8/12/2020 50,331 LBS. HILL BROTHERS AQUEOUS AMMONIA 8/12/2020 50,339 LBS. HILL B
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CHEMTREAT BL152 9/15/2020 837 LBS
CHEMTREAT CL4428 9/15/2020 548 LBS
CHEMTREAT BL152 9/8/2020 2,753 LBS
OCTOPED
VENDOR NAME CHEMICAL RECEIVED QUANTITY UOM
NORTHSTAR CHEMICAL SULFURIC ACID 93% 10/13/2020 49.920 LBS
UNIVAR SOLUTIONS BLEACH 10/12/2020 44.011 LBS
UNIVAR SOLUTIONS BLEACH 10/26/2020 43.007 LBS
UNIVAR SOLUTIONS BLEACH 10/1/2020 45.001 LBS
UNIVAR SOLUTIONS BLEACH 10/8/2020 2.479 LBS
HILL BROTHERS AQUEOUS AMMONIA 10/16/2020 48.822 LBS
HILL BROTHERS AQUEOUS AMMONIA 10/28/2020 50.324 LBS
HILL BROTHERS AQUEOUS AMMONIA 10/8/2020 48.815 LBS
HILL BROTHERS AQUEOUS AMMONIA 10/2/2020 50.317 LBS
HILL BROTHERS AQUEOUS AMMONIA 10/22/2020 46.562 LBS

NOVEMBER											
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM							
NORTHSTAR CHEMICAL	SULFURIC ACID 93%	11/4/2020	49,740	LBS							
UNIVAR SOLUTIONS	BLEACH	11/5/2020	46,475	LBS							
HILL BROTHERS	AQUEOUS AMMONIA	11/13/2020	50,317	LBS							
HILL BROTHERS	AQUEOUS AMMONIA	11/6/2020	56,324	LBS							
HILL BROTHERS	AQUEOUS AMMONIA	11/2/2020	50,317	LBS							
HILL BROTHERS	AQUEOUS AMMONIA	11/30/2020	50,317	LBS							
HILL BROTHERS	AQUEOUS AMMONIA	11/23/2020	50,332	LBS							

DECEMBER											
VENDOR NAME	CHEMICAL	RECEIVED	QUANTITY	UOM							
NORTHSTAR CHEMICAL	SULFURIC ACID 93%	12/8/2020	50,040	LBS							
UNIVAR SOLUTIONS	BLEACH	12/14/2020	44,982	LBS							
UNIVAR SOLUTIONS	BLEACH	12/1/2020	45,441	LBS							
HILL BROTHERS	AQUEOUS AMMONIA	12/16/2020	50,317	LBS							
HILL BROTHERS	AQUEOUS AMMONIA	12/10/2020	46,562	LBS							
HILL BROTHERS	AQUEOUS AMMONIA	12/4/2020	50,317	LBS							
				LBS							

		Hazardou	s Materials A	And Waste	s Inventor	y Matrix	Report				
CERS Business/Org: MMETCAUE Facility Name 3 METCAUE 1 BLANCHAR	ENGERGY CENTER ENERGY CENTER D RD, SANJOSE 95013		Chemical Location Aqueous: Ammonia Storage Area						CERSID 10097278 Facility ID 43=060=409545 status - Submitted on 2/26/20217-38:AM		
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Ha Component Name	zardous Component (For mixture only) % Wt	EHS CAS No.	
DOT: 8 - Corrosives (Liquids and Solids) Corrosive	AMMONIA CAS No FEHS 7664-41-7 Map: 1 Grid: 4G	Pounds <u>State</u> Si Liquid A <u>Type</u> Mixture D	27527.7 torage Container boveground Tank Pays on Site: 365	32382	27527.7 Pressue Ambient Temperature Ambient	Waste Code	- Physical Corrosive To Metal - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Ammonia	28 %	✓ 7664-41-7	

Hazardous Materials And Wastes Inventory Matrix Report										
CERS Business/Org = IMEJ/CALP Facility Name IMEJ/CALP LIBLANCHAR	ENGERGY CENTER ENERGY CENTER DRD, SANJOSE 95013	Chemical Location AUXILLARY TRAINSFORMERS				GERS ID 10097/27/8 Eacility ID 43:060-409545 Status Submitted on 2/26/20217:38-AM				
DOT Code/Fire Hay, Class	Common Name	Unit	Max Daiby	Quantities	Avg Daily	Annual Waste	Federal Hazard	Hazardous Co (For mixtu	mponent re onlγ)	
DOT: 9 - Misc. Hazardous Materials	HYTRANS 61 CAS No Map: 1 Grid: 5D, 3D, D1, 5E	Gallons State Liquid Type Mixture	s 1956 Storage Container Other Days on Site: 365	489	1956 Pressue < Ambient Temperature Ambient	Waste Code	 Physical Hazard Not Otherwise Classified Health Serious Eye Damage Eye Irritation 	OIL, HYDRO LIGHT NAPH DIST 2, 6-DI-T-BUTYL-P-CRESOL (BHT)	99 % 1 %	64742-53-6 128-37-0
DOT: 2.2 - Nonflammable Gases	NITROGEN, COMPRESSED <u>CAS No</u> 7727-37-9 Map: 1 Grid: 2D, 3D, 5E, 5D	Cu. Fee State Gas Type Pure	t 920 Storage Container Cylinder Days on Site: 365	230	920 Pressue Temperature	Waste Code	- Physical Gas Under Pressure - Health Respiratory Skin Sensitization			

Hazardous Materials And Wastes Inventory Matrix Report										
CERS Business/Orz IMETICALF Facility Name METICALF 12BLANGHAR	ENGERGY CENTER ENERGY CENTER D RD: SAN JOSE 95013			Chemical Loca BALANCE	nion OF PLANT			CERSID & 1009 Facility10 43-06 Status Sübmit	7 278 0-40954 ted on 2/2	5 6/2021-7:38 AM
				Quantities		Annual Waste	Federal Hazard	Hazardous (For mi	: Componen xture 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: 8 - Corrosives (Liquids and	LEAD-ACID BATTERY	Gallons	865	14.4	865			LEAD, LEAD COMPONENTS	60 %	7439-92-1
Solias)	CAS No	<u>State</u> <u>State</u> Liquid Ot	orage Container :her	*****	Pressue Ambient	Waste Cod	e	SULFURIC ACID	30 %	7664-93-9
Corrosive	Map: 1 Grid: 2E	<u>Type</u> Pure Da	ays on Site: 365		Temperature Ambient	<u>.</u>				

		Hazarac	bus Materials	And waste	s inventor	y watrix i	keport				
CERS Business/Org METCAL Facility Name METCAL 1 BLANCH	FIENGERGY CENTER FIENERGY CENTER ARD RD; SAN JOSE 95013			SChemicalLoca	ntion ED PUMPS			CERSI Fracility Status	 10097278 43-060-409545 Sübmitted on 2/2 	6/2021 7:38 AM-	
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.	
OOT: 9 - Misc. Hazardous Materials	CONOCO PHILLIPS MEGA FLOW 32 CAS No Map: 1 Grid: 2H, 3H	Gallons State Liquid Type Mixture	s 520 Storage Container Other Days on Site: 365	130	520 Pressue Ambient Temperature Ambient	Waste Code	 Physical Hazard Not Otherwise Classified Health Respiratory Skin Sensitization 				

Hazardous Materials And Wastes Inventory	y Matrix Repo	ri.
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CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER CREANCHARDIRD SANKICSE 95013

Chemical Location Boiler Water Chemical Treatment Area

Contract of the

CERSID 10097278 Facility ID 43-060-409545

				Quantities		Annual Waste	Federal Hazard	Hazardous Comp (For mixture o		ients iy)	
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.	
	CHEMTREAT BL-152 CAS No Map: 1 Grid: 2G	Gallons <u>State</u> Liquid <u>Type</u> Mixture	s 800 Storage Container Tote Bin Days on Site: 365	400	680 Pressue Ambient Temperature Ambient	Waste Code	 Physical Corrosive To Metal Health Acute Toxicity Health Skin Corrosion Irritation Health Serious Eye Damage Eye 	AMMONIUM HYDROXIDE ETHANOLAMINE	30 % 10 %	1336-21-6 141-43-5	
DOT: 8 - Corrosives (Liquids and Solids)	CHEMTREAT BL1794	Gallons State Liquid Type Mixture	s 400 Storage Container Tote Bin Days on Site: 365	400	340 Pressue Ambient Temperature Ambient		- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Sodium phosphate, tribasic	5 %	7601-54-9	

ERS Business/Org AMETCALF acility Name METCALF 1 BLANCHAR	ENGERGY CENTER ENERGY CENTER D RD, SAN JOSE 95013			Chemical Loca	ition LION TURBI	NE #1		CERS ID: 1009 Eacility ID: 43-00 Status: Submi	7278 0-40954 tted on 2/2	5 6/2021 7:38 AM
				Quantities		Annual Waste	Federal Hazard	Hazardous (For mi	s Component xture only)	35
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 and	LEAD-ACID BATTERY	Gallons	324	2.7	324			LEAD, LEAD COMPONENTS	60 %	7439-92-1
Solids)	CAS No	<u>State</u> Liquid C	torage Container Other		Pressue Ambient	Waste Cod	e	SULFURIC ACID	30 %	7664-93-9
Corrosive	Map: 1 Grid: 4E	Type Pure [Days on Site: 365		Temperature Ambient					

		Hazardous	s Materials ,	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org: METCALF Facility Name METCALF 1 BLANCHAR	ENGERGY CENTER ENERGY CENTER Dird, San Jose 95013			Chemical Loc COMBUS	non TION TURB	INE #2		CERSID 1009 Facility ID 43-06 Status Sübmit	/278 0-40954 ted on 2/2	5 6/2021 <i>1</i> :38 AM
				Quantities		Annual Waste	Federal Hazard	Hazardous (For mit	Component (ture 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: 8 - Corrosives (Liquids and	LEAD-ACID BATTERY	Gallons	324	2.7	324			LEAD, LEAD COMPONENTS	60 %	7439-92-1
Solias)	CAS No	<u>State</u> Store	orage Container ther		Pressue Ambient	Waste Cod	e	SULFURIC ACID	30 %	7664-93-9
Corrosive	Map: 1 Grid: 2E	Type Pure Da	ays on Site: 365		Temperature Ambient	<u></u>	_			

Hazardous Materials And Wastes Inventor	y Matrix Repoi	ŕÌ
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CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY, CENTER 1 BLANCHARD RD: SAN JOSE 95013

Chemical Location Combustion Turbine Lube Oil. CERS ID + 10097278 Facility1D: 43-060-409545

				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: 3 - Flammable and Combustible Liquids	76 TURBINE OIL 68	Gallons State S	7200 Storage Container	3600	7200 Pressue		- Physical Flammable				
Combustible Liquid, Class III-B	Map: 1 Grid: 2E, 4E	Solid O Type Mixturo f)ther		Ambient Temperature	Waste Code	e - Health Serious Eye Damage Eye Irritation				

		Hazardo	ous Materials	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org. METC/ Facility Name METC/ 1'BLANC	ALFENGERGY.CENTER ALFENERGY.CENTER Hard, RD, SAN JOSE 95013			Chemical Loca Connex N	ation ear Storm	Nater Po	nd	CERSID Facility ID Status	10097278 43-060-40954 Submitted on 2/2	5 6/2021-7:38 AM
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.
	Sodium Carbonate <u>CAS No</u> 497-19-8 Map: 1 Grid: 6K	Pounds State Solid Type Pure	storage Container Bag Days on Site: 365	50	300 Pressue Ambient Temperature Ambient	Waste Cod	 Physical Hazard Not Otherwise Classified Health Acute Toxicity Health Skin Corrosion Irritation Health Respiratory Skin Sensitization 			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org: METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER, 1-BLANCHARD RD, SAN-JOSE 95013

Cooling Tower Chemical Treatment Area

Facility ID 43-060-409545

CERSID - 10097278

1 BLANCHAR	D RD, SAN JOSE 95013				a star and			Status Submitte	l on 2/2	6/2021 7:38 AM
						Annual		Hazardous Co	mponent	s
DOT Code (Size Mar. Class	Common Namo	Unit	Max Daily	Quantities	Aug Daily	_ Waste	Federal Hazard	(For mixtu	re only)	
DOT Code/Fire Haz. class		Callana			1250	Amount	- Physical Hazard		76 WV L	EHS CAS NO.
Materials	CHEIVITREAT CL240	Gallons	5 1500	1500	1350		Not Otherwise			
in a contraction of the contract	CAS No	State	Aboveground Tank		Ambiant	Waste Code	Classified			
	NA	Turna	Aboveground rank		Ambient		- Health Hazard			
	Map: 1 Grid: 5D	Mixture	Dave on Site: 365		Ambient		Not Otherwise			
		winture					Classified			
DOT: 9 - Misc. Hazardous	CHEMTREAT CL4500	Gallons	s 1500	1500	750		- Physical Hazard			
Materials	CAS No	State	Storage Container		Pressue	·	Not Otherwise			
		Liquid	Aboveground Tank		Ambient	Waste Code	Classified			
	Map: 1 Grid: 5D	Туре			Temperature		- Health Bospiratory Skin			
		Mixture	Days on Site: 365		Ambient		Sensitization			
							- Health			
ļ							Aspiration Hazard			
DOT: 8 - Corrosives (Liquids and	SODIUM HYPOCHLORITE 12.5%	Gallons	8000	8000	6800		- Physical	SODIUM HYDROXIDE	1%	1310-73-2
Solids)	CAS No	State	Storage Container		Pressue		Corrosive To			
	CAS NO	Liquid	Aboveground Tank		Ambient	Waste Code	Metal	SODIUM HYPOCHLORITE >12.5%	13 %	7681-52-9
Corrosive	Map: 1 Grid: 5D	Туре			Temperature		- Health Acute	15%		
		Mixture	Days on Site: 365		Ambient		Toxicity	SODIUM CHLORIDE		7647-14-5
							- Health Skin	WATER		7732-18-5
							Irritation			
							- Health Serious			
							Eve Damage Eve			
							Irritation			
DOT: 8 - Corrosives (Liquids and	SULFURIC ACID 93%	Pounds	42762.8	85526	42762.8		- Physical			····
Solids)		State	Storage Container		Pressue		Corrosive To			
Corrosive Water Reactive Class	7664-93-9	Liquid	Aboveground Tank		Ambient	Waste Code	Metal			
1	Map: 1 Grid: 5D	Түре			Temperature	_	- Physical Contact			
		Pure	Days on Site: 365		Ambient		Water Emits	*		
							- Hoalth Skin			
							Corrosion			
							Irritation			
<u> </u>						<u>_</u>	initation		_	

Hazardous Materials And Wastes Inventor	y Matrix Repo	rt
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CERS Business/Org METCALE ENGERGY CENTER Facility Name METCALE ENERGY CENTER 1 BLANCHARD RD, SAN JOSE 95013

Chemical Location

CERSID. 10097278 Facility ID: 43-060-409545

			Quantities			Annuał Waste	Federal Hazard	Hazardous 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
DOT: 3 - Flammable and Combustible Liquids	MOBIL DTE 26	Gallons State St Liquid O	200 torage Container Other	100	200 Pressue Ambient	Waste Code	- Physical Flammable - Health			
	Map: 1 Grid: 2F, 3F	<u>Type</u> Pure D	ays on Site: 365		Temperature Ambient	D	Respiratory Skin Sensitization			

		Hazardous	Materials	And Waste	s Inventor	y Matrix	Report		
CERS Business/Org METCA Facility Name METCA 1-BLANCE	LESENGERGY CENTER LE ENERGY CENTER MARD RD, SAN JOSE 95013			Chemical Loca	inon WATER SU	МР		CERSID Facility:10.34 Status S	10097278 13-060-409545 submitted on 2/26/2021 7:38 AM
				Quantities	-	Annual Waste	Federal Hazard	Haz	ardous 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.
DOT: 9 - Misc. Hazardous	CT WATER WASH	Gallons	3200	1600	3200				
Materials	CAS No	<u>State</u> Sto Liquid Ot	rage Container her		Pressue Ambient	Waste Cod	e		
	Map: F2 Grid: F3	<u>Type</u> Mixture Da	ys on Site: 365		Temperature < Ambient	2			

Chemical Location

CERSID 10097278 Facility ID 43-060-409545

1 BLANCHAR	D RD, SAN JOSE 95013							Status	Submitted on 2/20	5/2021 7:38 AM
						Annual		Н	lazardous Components	5
DOT Code/Fire Haz, Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	_ Waste Amount	Federal Hazard Categories	Component Name	(For mixture only) % Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases	ARGON, COMPRESSED	Cu. Fe	et 625	336	586	Waste Code	- Physical Gas Under Pressure			
	<u>CAS No</u> 7440-37-1 Map: 1 Grid: H3	Gas Type Pure	Cylinder Days on Site: 365		Temperature		⁻ Health Hazard Not Otherwise Classified			
DOT: 2.2 - Nonflammable Gases	ARGON/CARBON MONOXIDE CAS No Map: 1 Grid: H3	Cu. Fe State Gas Type Mixture	et 752 <u>Storage Container</u> Cylinder Days on Site: 365	376	376 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure 			
DOT: 2.2 - Nonflammable Gases	CALIBRATION GAS (NITROGEN, CARBON MONOXIDE) CAS No Map: 1 Grid: 3H	Cu. Fe State Gas Type Mixture	et 580 <u>Storage Container</u> Cylinder Days on Site: 365	145	580 Pressue < Ambient Temperature Ambient	Waste Code	 Physical Gas Under Pressure Health Respiratory Skin Sensitization Health Serious Eye Damage Eye Irritation Health Simple Asphyxiant 	NITROGEN OXYGEN CARBON MONOXIDE	83 % 12 % 5 %	7727-37-9 7782-44-7 124-38-9
DOT: 2.2 - Nonflammable Gases	HELIUM <u>CAS No</u> 7440-59-7 Map: 1 Grid: 3H	Cu. Fe State Gas Type Pure	et 876 Storage Container Cylinder	292	584 Pressue Temperature	Waste Code	- Physical Gas Under Pressure - Health Aspiration Hazard	1		
DOT: 2.2 - Nonflammable Gases	NITROGEN <u>CAS No</u> 7727-37-9 Map: 1 Grid: 3H	Cu. Fe State Gas Type Pure	et 8050 Storage Container Cylinder Days on Site: 365	230	8050 Pressue < Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Health Serious Eye Damage Eye Irritation			
DOT: 2.2 - Nonflammable Gases	NITROGEN / NITRIC OXIDE CALIBRATION GAS CAS No Map: 1 Grid: 3H	Cu. Fe State Gas Type Mixture	et 1450 Storage Container Cylinder Days on Site: 365	145	1160 Pressue Ambient <u>Temperature</u> Ambient	Waste Code	 Physical Gas Under Pressure Health Respiratory Skin Sensitization Health Serious Eye Damage Eye Irritation Health Specific Target Organ Toxicity 	NITRIC OXIDE NITROGEN	0 % 99 %	✓ 10102-43-9 7727-37-9

Hazardous Materials And Wastes Inventor	ry Matrix Repor
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CERS Business/Org EVIET CALF ENGERGY CENTER Facility Name MET CALF ENERGY CENTER: 1 BLANGHARD RD, SAN JOSE 95013

Chemical Location

CERSID 10097278

DOT Code/Fire Haz. Class	Common Name		Quantities			Annual Waste	ual ste Federal Hazard	Hazardous Components (For mixture only)		
		Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases	NITROGEN / OXYGEN CALIBRATION GAS CAS No Map: 1 Grid: 3H	Cu. Feet State Si Gas C Type D	870 torage Container cylinder Days on Site: 365	145	870 Pressue Ambient Temperature Ambient	Waste Code	Physical Gas Under Pressure Health Acute Toxicity Health Serious Eye Damage Eye Irritation Health Simple Asphyxiant			
DOT: 2.2 - Nonflammable Gases Oxidizing, Class 2	Oxygen Gas <u>CAS No</u> 7782-44-7 Map: 1 Grid: H3	Cu. Feet State Si Gas C Type Pure D	843 torage Container Cylinder Davs on Site: 365	281	562 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Physical Oxidize	r		
Hazardous	Materials	And Was	tes Invente	ory Matri	x Report					
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		Chemical	ocation							

CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER TREANCHARD RD SAN LOSE 95013

DIESEL FIRE PUMP HOUSE

CERS ID 10097278 Facility ID 43-060-409545

Submitted on 2/26/2021 7-28

2.00.20

			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.
DOT: 8 - Corrosives (Liquids and	LEAD-ACID BATTERY	Gallons	12	6	12		- Physical	Sulfuric Acid	40 %	7664-93-9
Solids)	CAS No	<u>State</u> Liquid	Storage Container Other		Pressue Ambient	Waste Code	Flammable - Physical	Lead, Lead Components	60 %	7439-92-1
Corrosive	Map: 1 Grid: 5I	<u>Type</u> Mixture	Days on Site: 365		<u>Temperature</u> Ambient		Explosive - Physical Corrosive To Metal - Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity			

CERS Business/Org MELCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER

👞 Fire Pump House

200

Facility ID: 43-060-409545

CERSID 10097278

	Common Name			Quantities		Annual Waste	Federal Hazard Categories	Hazardous Components (For mixture only)		
DOT Code/Fire Haz. Class		Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount		Component Name	% Wt	EHS CAS No.
DOT: 3 - Flammable and Combustible Liquids	DIESEL	Gallons	572	572	550 Pressue		- Physical Flammable	FUELS, DIESEL, NO. 2	100 %	
Flammable Liquid, Class I-B	<u>CAS No</u> 68334-30-5 Map: 1 Grid: 5I	Liquid 7 <u>ype</u> Mixture [Aboveground Tan	k	Ambient Temperature Ambient	Waste Code	- Health Acute Toxicity - Health Respiratory Skin Sensitization - Health Aspiration Hazaro	GAS OIL, LIGHT HYDRODESULFURIZED MIDDLE DISTILLATE	0 % 0 %	64741-44-2 64742-80-9

CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER L'BLANCHARD RD SAN JOSE 95013

FUEL GAS COMPRESSORS

Facility ID: 43-060-409545

CERS ID 10097278

			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.
DOT: 9 - Misc. Hazardous	LUBRICATING OIL	Gallons	135	45	135		- Physical Hazard	1		
Materials	CAS No	<u>State</u> <u>St</u> Liquid O	torage Container hther		Pressue Ambient	Waste Cod	Not Otherwise e_Classified			
	Map: 1 Grid: 5J, 6J	<u>Туре</u> Mixture D	ays on Site: 365		<u>Temperature</u> Ambient		- Health Respiratory Skin Sensitization			

Hazardous Materials And Wastes Inventory Matrix Repor

CERS Business/Org METCA Facility Name METCA 1-BLANCE	UF ENGERGY CENTER UF ENERGY CENTER HARD RD, SAN JOSE 95013			chemical·Loca GSU Trans	tion *			CERSID 100972 Facility JD 43-060- Status Submittee	78 409545 1 on 2/2	5 6/2021-7:38 [:] AM
				Quantities		Annual Waste	Federal Hazard	Hazardous Co (For mixtu	mponent re 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: 3 - Flammable and Combustible Liquids	HYTRANS 61	Gallons State St	47883	18345	47883 Pressue		- Physical Hazard Not Otherwise	OIL, HYDRO LIGHT NAPH DIST	99 %	64742-53-6
	CAS No Map: 1 Grid: 2D, 3D, 4E	Liquid O <u>Type</u> Mixture D	ther ays on Site: 365		< Ambient Temperature Ambient	Waste Code	Classified - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	2, 6-DI-T-BUTYL-P-CRESOL (BHT)	1%	128-37-0

CERS Business/Org METCALFENGERGY CENTER Facility Name METCALFENERGY CENTER LIBLANCHARD RD, SAN JOSE 95013

Chemical Location Hazardous Material Storage Area

CERS ID 10097278 Facility ID 43-060-409545

Status Submitted on 2/26/2021 7:38 AM

				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: 4.1 - Flammable Solids	DEBRIS/RAGS CONTAMINATED	Pounds	5 100	55	25	500	- Physical			
	WITH PETROLEUM/OIL	State	Storage Container		Pressue	Waste Code	, Flammable			
Flammable Liquid, Class I-C	CAS No	Solid	Steel Drum		Ambient	352	- Health Hazard			
	Map: 1 Grid: 5G, 5H	Type Waste	Days on Site: 365		<u>Temperature</u> Ambient	¢-	Classified			
	USED OIL	Gallon	s 400	400	200	660	- Physical			
	CAS No	<u>State</u> Liquid	Storage Container Tote Bin		Pressue Ambient	Waste Code	Combustible Dus - Health Hazard	:		
NA Map: 1 Grid	Map: 1 Grid: 5G, 5H	Type Waste	Days on Site: 365		Temperature Ambient		Not Otherwise Classified			
	USED OIL FILTERS	Pounds	s 100	100	25	200	- Physical			
Flammable Solid	CAS No	<u>State</u> Solid	Storage Container Steel Drum		Pressue Ambient	Waste Code	Flammable - Health Hazard			
	Map: 1 Grid: 5G, 5H	Type Waste	Days on Site: 365		<u>Temperature</u> Ambient		Not Otherwise Classified			

CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER 1- BLANCHARD RD, SAN JOSE 95013

Lube Oil Storage

22

CERS ID 10097278 Facility ID 43-060-409545

Status Submitted on 2/26/2021 7:38 AM

						Annual			Hazardous Componer	ts
DOT Code/Fire Haz, Class	Common Name	Unit	Max. Daily	Quantities	Avg. Daily	_ Waste Amount	Federal Hazard	Component Name	(For mixture only)	
	76 Triton 5005 GEO SAE 30	Gallons	110	55	55	Filloune	- Physical Hazard	component name		
		State	Storage Container		Pressue	Waste Code	Not Otherwise			
		Liquid	Steel Drum		Ambient		Classified			
	Map: 1 Grid: 5H	Туре			Temperature		- Health Skin			
		Mixture	Days on Site: 365		Ambient		Irritation			
DOT: 3 - Flammable and	76 TURBINE OIL 68	Gallons	220	55	220					
Combustible Liquids	CAS No	State	Storage Container		Pressue					
		Liquid	Steel Drum		Ambient	Waste Code				
	Map: 1 Grid: 5H	Туре			Temperature					
		Mixture	Days on Site: 365		Ambient					
	Megaflow AW HVI Hydraulic Oil	Gallons	55	55	55		- Physical			
	CAS No	State	Storage Container		Pressue	Waste Code	Flammable			
Flammable Liquid, Class I-A		Liquid	Steel Drum		Ambient		- Physical Hazard			
	Map: 1 Grid: 5H	Туре			Temperature		Not Otherwise			
		Mixture	Days on Site: 365		Ambient		- Health Hazard			
							Not Otherwise			
							Classified			
DOT: 3 - Flammable and	MISCELLANEOUS LUBE OIL	Gallons	220	5	185		- Physical			······
Combustible Liquids	CAS No.	State	Storage Container		Pressue		Flammable			
		Liquid	Carboy		Ambient	Waste Code	- Health			
	Map: 1 Grid: 5H	Туре			Temperature		Respiratory Skin			
		Mixture	Days on Site: 365		Ambient		Sensitization			
	MOBIL DTE 26	Gallons	110	55	110		- Physical Hazard			
		State	Storage Container		Pressue	Waste Code	Not Otherwise			
Flammable Liquid, Class I-B	CAS NO	Liquid	Steel Drum		Ambient		Classified			
	Map: 1 Grid: 5H	Type			Temperature		- Health Hazard			
	·····	Pure	Days on Site: 365		Ambient	****	Not Otherwise			
					4.65		Classified		00.0/	
	MULTIPURPOSE R+O OIL 220	Gallons	165	55	165		- Priysical Hazaru Not Otherwise		1 99% 1%	
Elammable Liquid Class L-B	CAS No	State	Storage Container	****	Pressue	Waste Code	Th Classified	ADDITIVES	1 70	
		Liquia	Steel Drum		Amplent		- Health Hazard			
	Map: 1 Grid: 5H	Type	Dout on Site 205		1 emperature		Not Otherwise			
		wixture	Days on Site: 365		Ambient		Classified			
	Phillips Turbine Oil 100	Gallons	165	55	110		- Physical Hazard			
	CAS No	State	Storage Container		Pressue	Waste Code	Not Otherwise			
		Liquid	Steel Drum		Ambient		Classified			
	Map: 1 Grid: 5H	Туре			Temperature		- Health Hazard			
		Mixture	Days on Site: 365		Ambient		Classified			
							Classified			

CERS-Business/Org ... METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER

Chemical Location

CERS ID 10097278

1.BLANC	HARD RD, SAN JOSE 95013							Statu	Submitted on 2/2	6/2021 7:38 AM
						Annual			Hazardous Component	ts
DOT Code (Circ Has Class	Common Norro		May Daily	Quantities	Aug Daily	_ Waste	Federal Hazard	Comment Norma	(For mixture only)	
DOT Code/Fire Haz. Class	Release Number 1 VOC	Collons	FE	Largest Cont.	Avg. Dally	Amount	- Physical Hazard	Component Name	% Wt	EHS CAS NO.
Materials	Release Number 1 VOC	Gallons	35	55	55		Not Otherwise			
	CAS No	Liquid S	teel Drum	****	Ambient		Classified			
	Man. 1 Crid. EU	Liquid S			Tomperature		- Health Acute			
	Map. 1 Gru, Sh	Mixture D	avs on Site: 365		Ambient		Toxicity			
			ays on site. 505				- Health Skin			
							Corrosion			
							Irritation			
							- Health Recoiretery Skin			
							Sensitization			
	Reclube HVD 46	Gallons	110	55	55		- Physical Hazard			
	Reclube IIID 40	State St	torage Container	55	Pressue	Waste Code	Not Otherwise			
	CAS No	Liquid S	teel Drum		Ambient		"Classified			
	107028-44-4 Manu 1 Grid: 54	Type			Temperature		- Health Hazard			
	Map. 1 Ghu. SH	Pure D	Pays on Site: 365		Ambient		Not Otherwise			
			,				Classified			
DOT: 9 - Misc. Hazardous	Shell Morlina S3 BA 220	Gallons	220	55	165		- Physical Hazard			
viateriais	CAS No	State St	torage Container		Pressue		Classified			
		Liquid S	teel Drum		Ambient	Waste cour	- Health Skin			
	Map: 1 Grid: 5H	Type Mixture D	aur an Sita, 205		Temperature		Corrosion			
		Mixture L	ays on site: 365		Ambient		Irritation			
	SHELL TELLUS OIL	Gallons	110	55	110		- Physical Hazard			··· _ ··
	CAS No	State St	torage Container		Pressue	Waste Code	Not Otherwise			
		Liquid S	teel Drum		Ambient		Classified			
	Map: 1 Grid: 5H	Туре			Temperature		- Health Serious			
		Pure D	Days on Site: 365		Ambient		lrritation			
DOT: 9 - Misc. Hazardous	Shell Turbo Oil DR 46	Gallons	55	55	55		- Physical Hazard			
Materials		State Si	torage Container	55	Pressue		Not Otherwise			
	CAS No	Liquid S	teel Drum		Ambient	Waste Code	Classified			
	Map: 1 Grid: 5H	Type			Temperature	!	- Health			
		Mixture D	Days on Site: 365		Ambient		Carcinogenicity			
							- Health			
							Toxicity			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health	,		
							Aspiration Hazar	ב		

CERS Business/Org METCALFENGERGY CENTER Facility Name METCALFENERGY CENTER I BLANCHARD RD, SAN JOSE 95013

Chemical Location

Facility ID 43-060-409545

CERSID 10097278

	Common Name			Quantities		Annual Waste	nual Aste Federal Hazard nount Categories	Hazardous Components (For mixture only)		
DOT Code/Fire Haz. Class		Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount		Component Name	% Wt	EHS CAS No.
	TURBO T OIL 32	Gallons	385	55	330		- Physical Hazard			
	CAS No	<u>State</u> Liquid	Storage Container Steel Drum		Pressue Ambient	Waste Cod	e Not Otherwise Classified			
	Map: 1 Grid: 5H	<u>Type</u> Pure	Days on Site: 365		Temperature Ambient	(46	- Health Hazard Not Otherwise Classified			
	Vaprotec Light	Gallons	55	55	55		- Physical Hazard			
	CAS No	State Storage Containe Liquid Steel Drum	Storage Container Steel Drum		Pressue Ambient	Waste Cod	e Not Otherwise Classified			
	Map: 1 Grid: 5H	Type Mixture	Days on Site: 365		<u>Temperature</u> Ambient	şan.	- Health Hazard Not Otherwise Classified			

CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER 1 BLANCHARD RD, SAN JOSE 95013

MAINTENANCE SHOP

Facility ID: 43-060-409545

CERSID 10097278

1 BLANCHAR	D RD; SAN JOSE 95013							Status	Submitted on 2/2	6/2021 7:38 AM
						Annual			Hazardous Component	S
				Quantities		Waste	Federal Hazard		(For mixture only)	
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	<u>% Wt</u>	EHS CAS No.
DOT: 3 - Flammable and	*MISCELLANEOUS FLAMMABLE	Gallon	s 65	1	65		- Physical			
Combustible Liquids	LIQUID, CLASS IB	State	Storage Container		Pressue		Flammable			
	CAS No	Liquid	Can, Glass Bottle	or Jug, Plastic	Ambient	waste code	- Health Acute			
Flammable Liquid, Class I-B		Туре	Bottle or Jug		Temperature		Hoolth Skin			
	Map: 1 Grid: 3J	Pure	Days on Site: 365		Ambient		- Health Skill			
							Irritation			
							- Health Serious			
							Eve Damage Eve			
							Irritation			
DOT: 2.1 - Flammable Gases	ACETYLENE	Cu. Fee	et 185	185	185		- Physical			
		State	Storage Container	100	Pressue	Waste Code	Flammable			
Unstable (Reactive), Class 2,		Gas	Cylinder		Ambient		- Physical Gas			
Flammable Gas	74-80-2 Name 1 Cride 21	Type	,		Temperature		Under Pressure			
	Map: 1 Ghu: 51	Pure	Days on Site: 365		Ambient		- Health			
							Aspiration Hazard			<u> </u>
DOT: 2.2 - Nonflammable Gases	ARGON / CARBON DIOXIDE	Cu. Fee	et 501	376	501		- Physical Gas			
	CAS No	State	Storage Container		Pressue	Waste Code	Under Pressure			
		Gas	Cylinder		Ambient		- Health Simple			
	Map: 1 Grid: 3J	Туре			Temperature		Asphyxiant			
		Mixture	Days on Site: 365		Ambient					
DOT: 2.2 - Nonflammable Gases	ARGON, COMPRESSED	Cu. Fee	et 250	250	250		- Physical Gas			
	CAS No	State	Storage Container		Pressue	Waste Code	Under Pressure			
	7440-37-1	Gas	Cylinder		Ambient		- Health Hazard			
	Map: 1 Grid: 3J	Туре			Temperature		Not Otherwise			
	······	Pure	Days on Site: 365		Ambient		Classified			_
DOT: 2.2 - Nonflammable Gases	OXYGEN	Cu. Fee	et 281	281	281		- Physical Oxidizer	r		
	CAS No	State	Storage Container		Pressue	Waste Code	•			
Oxidizing, Class 2	7782-44-7	Gas	Cylinder		Ambient		- Health Hazard			
1	Map: 1 Grid: 3J	Туре			Temperature		Not Otherwise			
M	•	Pure	Days on Site: 365		Ambient		Classified			

		Hazardous	s Materials A	And Waste	s Inventory	y Matrix	Report			
ERS Business/Org METCA acility Name METCA 1-BLANCH	LF ENGERGY CENTER LF ENERGY CENTER IARD RD, SAN JOSE 95013			Chemical Loca	ation ER SEPARAT	OR		CERSID Facility/I Status	10097278 43-060-409545 Submitted on 2/26	/2021 7:38 AM
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	s EHS_CAS.No.
OT: 9 - Misc. Hazardous Aaterials oxic	USED OIL <u>CAS No</u> 70514-12-4 Map: 5 Grid: C	Gallons <u>State Sta</u> Liquid At <u>Type</u> Waste Da	600 orage Container boveground Tank ays on Site: 365	600	600 Pressue Ambient Temperature Ambient	500 Waste Code 352	- Physical Flammable - Health Respiratory Skin Sensitization			

CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER 1 BLANCHARD RD, SAN JOSE 95013

Chemical Location PROPANE STORAGE

CERSID 10097278 Facility/D 43:060-409545

				Quantities		Annual Waste	Federal Hazard	Ha	azardous 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: 3 - Flammable and Combustible Liquids Flammable Liquid, Class I-B	*MISCELLANEOUS FLAMMABLE LIQUID, CLASS IB CAS No Map: 1 Grid: 3H	Gallons State Liquid Type Pure	55 Storage Container Can, Plastic Bottl Days on Site: 365	1 e or Jug	55 Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Serious Eye Damage Eye Irritation			
DOT: 2.1 - Flammable Gases Flammable Liquid, Class I-A	PROPANE <u>CAS No</u> 74-98-6 Map: 1 Grid: 3H	Cu. Feet State Gas Type Pure	t 225 Storage Container Cylinder Days on Site: 365	15	150 Pressue < Ambient Temperature Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure - Health Aspiration Hazarr	4		

		Hazardous	s Materials /	And Waste	s Inventor	y Matrix (Report			
CERS Business/Org. METCA Facility Name METCA 1 BLANCE	LE*ENGERGY CENTER LEFENERGY CENTER IARD RD, SAN JOSE 95013			Chemical Loca	nion SERVICE TR	ANSFORM	IERS	CERS ID 100972 Facility ID 43:060- Status Submitter	78 40954 1 on 2/2	5 6/2021 7:38 AM
				Quantities		Annual Waste	Federal Hazard	Hazardous Co (For mixtu	mponent re 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. Hazardous Materials	HYTRANS 61	Gallons State Str	7038 orage Container	3519	7038 Pressue		- Physical Hazard Not Otherwise	OIL, HYDRO LIGHT NAPH DIST	99 %	64742-53-6
	CAS No	Liquid O	ther		< Ambient	Waste Code	Classified - Health	2, 6-DI-T-BUTYL-P-CRESOL (BHT)	1%	128-37-0
	Wap: 1 Grid: 20, 30	Nixture Da	ays on Site: 365		Ambient		Respiratory Skin Sensitization			

		Hazardol	us Materials	And Waste	s inventor	y Matrix	Report			
CERS Business/Org METCA Facility Name METCA 1.BLANCE	LF ENGERGY CENTER LF: ENERGY CENTER HARD RD, SAN JOSE 95013			Chemical Loca	ition JRBINE CON	ITROL OIL	TANK	CERSI Facilit Statu	D 10097278 vid 43-060-409545 Submitted on 2/2	6/2021 7:38 AM
DOT Code/Fire Hay Class	Common Namo	Unit	May Daily	Quantities	Aug Doily	Annual _ Waste	Federal Hazard	Component Name	Hazardous Components (For mixture only)	S
DOT: 9 - Misc. Hazardous Materials	Shell Turbo Oil DR 46 CAS No Map: 1 Grid: 4F	Gallons State S Liquid C Type Mixture (200 Storage Container Other Days on Site: 365	200	200 Pressue Ambient Temperature Ambient	Waste Code	- Physical Hazard Not Otherwise Classified - Health Respiratory Skin Sensitization		20 WL	LITS CASINO.

Hazardous Materials And Wastes Inventory Matrix Report

ERS Business/Org METCALF Facility Name METCALF	ENGERGY CENTER ENERGY CENTER			Chemical Loca Steam Tur	^{tion} bine Flamn	nable Lock	(er	CERS ID Facility	10097278 10:43-060-409545	5
1 DLAINCHAI	KD,5AH-JOSE,5J045	Part Group		Quantities		Annual _ Waste	Federal Hazard	Status	Hazardous Component (For mixture only)	5/2021/:58*AM
DOT Code/Fire Haz. Class		Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
Combustible Liquids		State Liquid Type	S ZIU Storage Container Can, Glass Bottle o Bottle or Jug	L or Jug, Plastic	Pressue Ambient Temperature	Waste Code	••			
	Map: 1 Grid: 4E	Pure	Days on Site: 365		Ambient					
DOT: 3 - Flammable and Combustible Liquids	Diesel Fuel	Gallon State	s 20 Storage Container	5	10 Pressue	" Waste Code	- Physical Flammable - Health Skin			
Combustible Liquid, Class II	68334-30-5 Map: 1 Grid: 4F	Type Pure	Days on Site: 365		Ambient Temperature Ambient		Corrosion Irritation - Health Respiratory Skin Sensitization			
DOT: 3 - Flammable and Combustible Liquids	GASOLINE CAS No	Gallon State	s 70 Storage Container	5	70 Pressue	·····	- Physical Flammable			
-lammable Liquid, Class I-B	8006-61-9 Map: 1 Grid: 4F	Liquid <u>Type</u> Pure	Can Days on Site: 365		Ambient <u>Temperature</u> Ambient	" <u>Waste Code</u>	- Health Carcinogenicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity - Health Aspiration Hazard - Health Germ Cell Mutagenicity	d /		

CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER 1 BLANCHARD RD, SAN JOSE 95013

STEAM TURBINE PACKAGE

CERSID 10097278 Facility ID: 43-060-409545

1.2

			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.
OOT: 3 - Flammable and Combustible Liquids	CONOCO PHILLIPS TURBINE OIL	Gallons	6850	6650	6850		- Physical Flammable	TERT-BUTYLATED TRIPHENYL PHOSPHATES		68937406
	32 CAS No	Liquid O	other		Ambient	Waste Code	- Health Hazard Not Otherwise	TRIPHENYL PHOSPHATE		115-86-6

CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER 1'BLANCHARD RD, SAN JOSE 95013

Steam Turbine Under Deck

CERS ID 10097278 Facility ID 43-060-409545

and the second			
Status SI	ibmitted	on-2/26/20	71-7-38 AM
the second se	A S S S S S S S S S S S S S S S S S S S	and the second	

				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: 9 - Misc. Hazardous	Shell Turbo Oil DR 46	Gallons	55	55	55		- Physical Hazard			
Materials	CAS No	<u>State</u> St Liquid S	torage Container teel Drum		Pressue Ambient	Waste Code	Not Otherwise Classified			
	Map: 1 Grid: H5	<u>Type</u> Mixture D	ays on Site: 365		Temperature Ambient	<u>.</u>	- Health Respiratory Skin Sensitization			
DOT: 3 - Flammable and Combustible Liquids	USED OIL CAS No	Gallons State St	200 torage Container	300	100 Pressue	660 Waste Code	- Physical Hazard Not Otherwise Classified			
Combustible Liquid, Class II	NA Map: 1 Grid: F4	Type Waste D	ays on Site: 365		Ambient Temperature Ambient	221	- Health Respiratory Skin Sensitization			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org: METCALF ENGERGY CENTER Facility Name: METCALF ENERGY CENTER 1/BLANCHARD RD: SAN: 10SE 95013

Chemical Location

CERSID 10097278 Facility ID 43-060-409545

				Quantities		Annual Waste	Federal Hazard	Hazardous For mix	Component (ture 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 and	FLOODED LEAD-CALCIUM	Gallons	9	0.6	9			LEAD, LEAD COMPONENTS	65 %	7439-92-1
Solids)	BATTERY	State S	Storage Container		Pressue	" Marta Cada			9.0/	4 7664 02 0
Corrosive	CAS No	Liquid (<u>Type</u>	Other		Ambient Temperature			SOLFORICACID	0 70	J 1004-95-9
	Map: 1 Grid: 4B	Pure [Days on Site: 365		Ambient					
DOT: 2.2 - Nonflammable Gases	SULFUR HEXAFLUORIDE	Cu. Feet	2970	594	2970		- Physical Hazard			
	<u>CAS No</u> 2551-62-4 Map: 1 Grid: 4B	State S Gas (Type Pure 1	Storage Container Other		Pressue < Ambient Temperature Ambient	Waste Code	Not Otherwise Classified - Health Simple Asphyxiant			

CERS'Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER LBLANCHARD RD, SAN JOSE 95013

UNIT 1 CEMS GASES

CERSID 10097278

1 BLANCHAR	D RD, SAN JOSE 95013							Status	Submitted on 2/2	6/2021 7:38 AM
				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: 2.2 - Nonflammable Gases	NITROGEN / NITRIC OXIDE CALIBRATION GAS CAS No Map: 1 Grid: 4H	Cu. Feet	t 725 Storage Container Cylinder Days on Site: 365	145	435 Pressue Ambient Temperature Ambient	Waste Code	 Physical Gas Under Pressure Health Respiratory Skin Sensitization Health Serious Eye Damage Eye Irritation Health Specific Target Organ 	NITRIC OXIDE NITROGEN	0 % 99 %	 ✓ 10102-43-9 7727-37-9
DOT: 2.2 - Nonflammable Gases	NITROGEN / OXYGEN CALIBRATION GAS CAS No Map: 1 Grid: 4H	Cu. Fee State Gas Type	t 580 Storage Container Cylinder Days on Site: 365	145	580 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Health Acute Toxicity - Health Serious Eye Damage Eye Irritation - Health Simple Asphysiant			
DOT: 2.2 - Nonflammable Gases	NITROGEN/CARBON MONOXIDE CALIBRATION GAS CAS No Map: 1 Grid: 4H	Cu. Feet	t 280 Storage Container Cylinder Days on Site: 365	145	280 Pressue < Ambient Temperature Ambient	Waste Code	 Physical Gas Under Pressure Health Respiratory Skin Sensitization Health Serious Eye Damage Eye Irritation Health Simple Asphyxiant 	NITROGEN OXYGEN CARBON MONOXID	83 % 12 % E 5 %	7727-37-9 7782-44-7 124-38-9

Chemical Location

2 . A. C.

CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER

UNIT 1 NITROGEN STORAGE

5. 445 2 (ST

Marker Stat War.

CERSID 10097278 Facility ID 43-060-409545

1 BLANCHARD RD, SAN JOSE 95013 Status Submitted on 2/26/2021 7:38 AM Hazardous Components Annual (For mixture only) Quantities Waste Federal Hazard DOT Code/Fire Haz. Class Common Name Unit Max. Daily Largest Cont. Avg. Daily Amount Categories Component Name % Wt EHS CAS No. DOT: 2.2 - Nonflammable Gases - Physical Gas NITROGEN Cu. Feet 1380 230 1380 Waste Code Under Pressure State Storage Container Pressue CAS No - Health Serious Gas Cylinder < Ambient 7727-37-9 Eye Damage Eye Temperature Туре Map: 1 Grid: 3E Irritation Pure Days on Site: 365 Ambient

CERS Business/Ore IMETCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER 1'BLANCHARD RD, SAN JOSE 95013

Chemical Location

CERSID 10097278

1'BLANCHAR	D RD, SAN JOSE 95013		_					Status	Submitted on 2/2	5/2021 7:38 AM
				Quantitias		Annual	F _ d		Hazardous Component	5
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	_ waste Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases	NITROGEN / NITRIC OXIDE CALIBRATION GAS CAS NO Map: 1 Grid: 2H	Cu. Fee State Gas Type Mixture	t 725 Storage Container Cylinder Days on Site: 365	145	725 Pressue Ambient Temperature Ambient	Waste Code	Physical Gas Under Pressure Health Respiratory Skin Sensitization Health Serious Eye Damage Eye Irritation Health Specific Target Organ Tavisity	NITRIC OXIDE NITROGEN	0 % 99 %	✓ 10102-43-9 7727-37-9
DOT: 2.2 - Nonflammable Gases	NITROGEN / OXYGEN CALIBRATION GAS CAS No Map: 1 Grid: 2H	Cu. Fee State Gas Type	t 580 <u>Storage Container</u> Cylinder Days on Site: 365	145	580 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Health Acute Toxicity - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant			
DOT: 2.2 - Nonflammable Gases	NITROGEN/CARBON MONOXIDE CALIBRATION GAS CAS No Map: 1 Grid: 2H	Cu. Fee State Gas Type Mixture	t 280 Storage Container Cylinder Days on Site: 365	145	280 Pressue < Ambient Temperature Ambient	Waste Code	 Physical Gas Under Pressure Health Respiratory Skin Sensitization Health Serious Eye Damage Eye Irritation Health Simple Asphyxiant 	NITROGEN OXYGEN CARBON MONOXIE	83 % 12 % DE 5 %	7727-37-9 7782-44-7 124-38-9

Hazardous Materials And Wastes Inventor	y Matrix Report
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CERS Business/Org: METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER 1 BLANCHARD RD, SAN JOSE 95013

Chemical Location

23

Facility ID 43-060-409545

CERSID 10097278

	Common Name			Quantities		Annual Waste Federal Hazard	Hazardous Components(For mixture only)			
DOT Code/Fire Haz. Class		Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases	NITROGEN	Cu. Feet	1380	230	1380		- Physical Gas			
	<u>CAS No</u> 7727-37-9 Map: 1 Grid: 2E	State Si Gas C Type	torage Container Cylinder		Pressue < Ambient Temperature	Waste Cod	e Under Pressure - Health Serious Eye Damage Eye			

CERS Business/Org. METCALFENGERGY CENTER Facility Name METCALFENERGY CENTER 1 BLANCHARD RD, SAN JOSE 95013

Chemical Location VARIOUS Facility ID: 43-060-409545

		Quanti		Quantities	Quantities		Annual Waste Federal Hazard	Hazardous Components (For mixture only)		
DOT Code/Fire Haz. Class	Common Name	non Name Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
OOT: 2.2 - Nonflammable Gases	Carbon Dioxide	Cu. Feet	1320	220	1320		- Physical Gas			
	<u>CAS No</u> 124-38-9	State State Gas C	torage Container Cylinder		Pressue Ambient	Waste Cod	e Under Pressure - Health Acute			
	Map: F4 Grid: F2; F3	<u>Type</u> Pure D	ays on Site: 365		Temperature Ambient	•••	- Health Aspiration Hazard	4		

CERS Business/Org: METCALF ENGERGY CENTER Facility Name METCALFENERGY CENTER 1 BLANCHARD RD, SAN JOSE 95013

WATER TREATMENT BUILDING

CERSID 10097278 Facility(D 43-060-409545

Status Submitted on 2/26/2021 7:38 AM

		_		Ai Quantities V		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.
DOT: 8 - Corrosives (Liquids and Solids)	CHEMTREAT BL-152	Gallons State	440 Storage Container Plastic/Non-metali	55 c Drum	275 Pressue	[…] Waste Code	- Physical Corrosive To Metal	AMMONIUM HYDROXIDE	30 % 10 %	1336-21-6 141-43-5
Corrosive	Map: 1 Grid: 4J	Type Mixture			<u>Temperature</u> Ambient		- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation			
DOT: 8 - Corrosives (Liquids and Solids)	CHEMTREAT CL2250	Gallons State	30 Storage Container	5	20 Pressue	" Waste Code	- Physical Corrosive To Metal	5-chloro-2-methyl-4-isothiazolin-3 -one 2-methyl-4-isothiazolin-3-one	1%	26172-55-4
Corrosive	Map: 1 Grid: 4J	Liquid <u>Type</u> Mixture	Days on Site: 365		Ambient Temperature Ambient		- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation			2002 20 4
DOT: 8 - Corrosives (Liquids and Solids)	CHEMTREAT CL-2875	Gallons State	75 Storage Container	55	60 Pressue		- Physical Corrosive To			
Corrosive	Map: 1 Grid: 4J	Liquid <u>Type</u> Mixture	Plastic/Non-metail	c Drum, Other	Ambient <u>Temperature</u> Ambient		- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation			
	CHEMTREAT P873L CAS No	Gallons State Liquid Type	400 Storage Container Aboveground Tanl	400 , Other	400 Pressue Ambient Temperature	Waste Code	- Physical Hazard Not Otherwise Classified - Health Hazard	Poly(dimethyldiallylammonium chloride)	30 %	26062-79-3
		Mixture	Days on Site: 365		Ambient		Not Otherwise Classified	·····		
DOT: 8 - Corrosives (Liquids and Solids)	CHEMTREAT RL1245	Gallons State	565 Storage Container Tank Inside Buildir	400	565 Pressue Ambient	Waste Code	- Physical Corrosive To Metal	SODIUM BISULFITE		7631-90-5
Corrosive	Map: 1 Grid: 4J	Type Mixture	Days on Site: 365	ď	Temperature Ambient		- Health Skin Corrosion Irritation			

CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER

Chemical Location WATER TREATMENT BUILDING -CERS ID 10097278 Facility ID 43-060-409545

1 BLANCHAR	D RD; SAN JOSE 95013					a grada a servica		Status Submittee	l on 2/26	/2021 7:38 AM
				Quantitias		Annual	Federal theread	Hazardous Co (For mixtur	mponents	;
DOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	_ waste Amount	Categories	Component Name	% Wt	EHS CAS No.
DOT: 9 - Misc. Hazardous	CHEMTREAT RI 9007	Gallon	565	400	510		- Physical Hazard	Diethylenetriamine penta	30 %	22042-96-2
Materials		State	Storage Container		Pressue		Not Otherwise	methylene phosphonic acid		
		Liquid	Tank Inside Buildin	 Ig	Ambient	Waste Code	Classified			
	Map: 1 Grid: 4J	Туре			Temperature		- Health Acute			
		Mixture	Days on Site: 365		Ambient		- Health Skin			
							Corrosion			
							Irritation			
							- Health Serious			
							Lye Damage Lye			
DOT: 8 - Corrosives (Liquids and	CHEMTREAT-BI-1795	Gallon	165	55	110		- Physical	SODIUM PHOSPHATE, TRIBASTIC	5 %	7601-54-9
Solids)		State	Storage Container		Pressue		Corrosive To			
		Liquid	Plastic/Non-metal	ic Drum		Waste Code	Metal	SODIUM HYDROXIDE	5 %	1310-73-2
Corrosive	Map: 1 Grid: 4J	Туре			Temperature		- Health Acute			
		Mixture	Days on Site: 365		Ambient		- Health Skin			
							Corrosion			
							Irritation			
							- Health Serious			
							Eye Damage Eye			
DOT: 9 - Misc. Hazardous	CONNTECT 6000	Gallon	s 110	55	110		- Physical Hazard	Ethylene Glycol Monobutyl Ether	20 %	111-76-2
Materials		State	Storage Container	55	Pressue		Not Otherwise	,		
	CAS NO	Liquid	Plastic/Non-metal	 ic Drum		Waste Code	Classified	Ethoxylated Alcohols, C9 - C11	40 %	68439-46-3
	Map: 1 Grid: 4J	Туре			Temperature		- Health Acute			
		Mixture	Days on Site: 365				- Health Skin			
							Corrosion			
							Irritation			
							- Health Serious			
							Eye Damage Eye			
DOT: 8 - Corrosives (Liquids and	FERROQUEST FO7101	Gallon		5	5		- Physical	·····		
Solids)		State	Storage Container	3	Pressue		Corrosive To			
	CAS NO	Liquid	Carboy		Ambient	Waste Code	Metal			
	Map: 1 Grid: 4J	Туре			Temperature	•••	- Health Serious			
		Mixture	Days on Site: 365		Ambient		Lye Damage Lye			
							- Health Specific			
							Target Organ			
							Toxicity			

CERS Business/Org METCALF ENGERGY CENTER Facility Name METCALF ENERGY CENTER 1 BLANCHARD RD, SAN JOSE 95013

Chemical Location WATER TREATMENT BUILDING

CERS ID 10097278 Facility ID 43-060-409545

1 BLANCHAR	D RD, SAN JOSE 95013		e e contra c					Status Submitted	on 2/2	6/2021 7:38 AM
				Quantities		Annual		Hazardous Cor (For mixture	nponent e 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 and	FFRROOUFST F07102	Gallon	5 5	5	5		- Physical	PHOSPHONIC ACID,(1-	20 %	2809-21-4
Solids)		State	Storage Container	•	Pressue		Corrosive To	HYDROXYETHYLIDINE)BIS		
	CAS NO	Liquid	Carboy	•••	Ambient	Waste Code	Metal	FORMIC ACID	13 %	64-18 - 6
Corrosive	Map: 1 Grid: 4J	Type			Temperature		- Health Skin	GLYCOLIC ACID	5 %	79-14-1
		Mixture	Days on Site: 365		Ambient	u.	Corrosion			
							Irritation			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ			
DOT: 8 Corrosivos (Liquids and	5500000050T 07000	C -II					Bhusical			
Solids)	FERROQUEST LP7200	Gallons	5 5	5	5		- Priysical Corrosivo To			
Solids)	CAS No	State	Storage Container		Pressue	" Wasto Coda	Motal			
Corrective		Liquid	Carboy		Ambient	Waste Loue	- Health Skin			
Corrosive	Map: 1 Grid: 4J	Туре			Temperature		Corrosion			
		Mixture	Days on Site: 365		Ambient		Irritation			
							- Health Serious			
							Eve Damage Eve			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health Germ			
							Cell Mutagenicity			
DOT: 8 - Corrosives (Liquids and	SODIUM HYPOCHLORITE 12.5%	Gallon	s 300	400	150		- Physical	SODIUM HYDROXIDE 10-60%	1%	1310-73-2
Solids)	CAS No.	State	Storage Container		Pressue		Corrosive To			
		Liquid	Tank Inside Buildir	ng	Ambient	Waste Code	Metal	SODIUM HYPOCHLORITE >12.5%-	13 %	7681-52-9
Corrosive	Map: 1 Grid: 4J	Type			Temperature		- Health Acute	15%		
		Mixture	Days on Site: 365		Ambient		Toxicity	SODIUM CHLORIDE		7647-14-5
			,				- Health Skin	WATER		7732-18-5
							Corrosion			1310-73-2 6 7681-52-9 7647-14-5 7732-18-5
							Irritation			
							- Health Serious			
							Eye Damage Eye			
							Irritation			



April 27, 2020 11:25 AM

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. Finally, a summary of ECMPS's Evaluation Results is included.

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 2020 QTR 1
Feedback Status Level:	Informational Message
Submission Date/Time:	04/27/2020 11:25:57 AM
Submitter User ID:	rsilva
Submission ID:	1334452
Resubmission Required:	No
EPA Analyst:	Christopher Worley; (434) 817-4150; Worley.Christopher@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; however, the Evaluation Results at the end of this Feedback Report contain one or more Informational Messages. If any of the Informational Messages indicates a reporting problem, the EPA strongly encourages you to correct the problem(s) and resubmit the data. 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 e-mail 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.

TECHNICAL SUPPORT: please visit the ECMPS Technical Support website at: https://ecmps.camdsupport.com for information about ECMPS software downloads, ECMPS News, Technical Support, documentation, tutorials, FAQs, and more.

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

If you have any questions regarding this correspondence, please feel free to contact your EPA Analyst listed in Table1 as soon as possible. Thank you for your attention to this matter.

Facility Name: Metcalf Energy Center

Facility ID (ORISPL): 55393 State: CA

ECMPS Feedback

April 27, 2020 11:25 AM

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	961					961
Operating Time (hrs)	907.30					907.30
SO2 Mass (tons)	0.4					0.4
CO2 Mass (tons)	88,196.0					88,196.0
Heat Input (mmBtu)	1,484,073					1,484,073
NOx Emission Rate (lb/mmBtu)	0.011					0.011

Facility Name: Metcalf Energy Center

Facility ID (ORISPL): 55393 State: CA

ECMPS Feedback

April 27, 2020 11:25 AM

EVALUATION RESULTS

General

Severity	Check Code / Result	Result Message
INFORM	HOURGEN-14-A	You reported one or more daily calibration tests that will not fulfill your daily calibration testing requirement, because these tests were performed while the unit was not operating and you have not reported a prior online-offline calibration demonstration. These tests have been assigned a CalculatedTestResult of "IGNORED", and they can be viewed on the Daily Calibration tab of the View Detailed Emissions Screen. If you intend to use offline tests to fulfill your daily calibration testing requirement, you must conduct an online-offline calibration demonstration.



April 27, 2020 11:26 AM

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:	СА
Monitoring Locations:	2
Submission Type:	EM for 2020 QTR 1
Feedback Status Level:	No Errors
Submission Date/Time:	04/27/2020 11:26:08 AM
Submitter User ID:	rsilva
Submission ID:	1334456
Resubmission Required:	No
EPA Analyst:	Christopher Worley; (434) 817-4150; Worley.Christopher@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.

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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

ECMPS Feedback

April 27, 2020 11:26 AM

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	1,165					1,165
Operating Time (hrs)	1,105.24					1,105.24
SO2 Mass (tons)	0.5					0.5
CO2 Mass (tons)	106,358.8					106,358.8
Heat Input (mmBtu)	1,789,694					1,789,694
NOx Emission Rate (lb/mmBtu)	0.012					0.012



July 22, 2020 10:01 AM

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 2020 QTR 2
Feedback Status Level:	No Errors
Submission Date/Time:	07/22/2020 10:01:05 AM
Submitter User ID:	rsilva
Submission ID:	1350868
Resubmission Required:	No
EPA Analyst:	Christopher Worley; (434) 817-4150; Worley.Christopher@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.

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If you have any questions regarding this correspondence, please feel free to contact your EPA Analyst listed in Table1 as soon as possible. Thank you for your attention to this matter.

Facility Name: Metcalf Energy Center

Facility ID (ORISPL): 55393 State: CA

ECMPS Feedback

July 22, 2020 10:01 AM

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	961	564				1,525
Operating Time (hrs)	907.30	537.13				1,444.43
SO2 Mass (tons)	0.4	0.3				0.7
CO2 Mass (tons)	88,196.0	53,458.5				141,654.5
Heat Input (mmBtu)	1,484,073	899,533				2,383,606
NOx Emission Rate (lb/mmBtu)	0.011	0.011				0.011



July 22, 2020 10:01 AM

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

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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 2020 QTR 2
Feedback Status Level:	No Errors
Submission Date/Time:	07/22/2020 10:01:27 AM
Submitter User ID:	rsilva
Submission ID:	1350878
Resubmission Required:	No
EPA Analyst:	Christopher Worley; (434) 817-4150; Worley.Christopher@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.

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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

ECMPS Feedback

July 22, 2020 10:01 AM

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	1,165	1,100				2,265
Operating Time (hrs)	1,105.24	1,030.52				2,135.76
SO2 Mass (tons)	0.5	0.5				1.0
CO2 Mass (tons)	106,358.8	100,513.5				206,872.3
Heat Input (mmBtu)	1,789,694	1,691,320				3,481,014
NOx Emission Rate (lb/mmBtu)	0.012	0.014				0.013



October 8, 2020 06:32 AM

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 2020 QTR 3
Feedback Status Level:	No Errors
Submission Date/Time:	10/08/2020 6:32:54 AM
Submitter User ID:	rsilva
Submission ID:	1364165
Resubmission Required:	No
EPA Analyst:	Christopher Worley; (434) 817-4150; Worley.Christopher@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.

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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

ECMPS Feedback

October 8, 2020 06:32 AM

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	961	564	1,991			3,516
Operating Time (hrs)	907.30	537.13	1,948.64			3,393.07
SO2 Mass (tons)	0.4	0.3	1.0			1.7
CO2 Mass (tons)	88,196.0	53,458.5	192,340.7			333,995.2
Heat Input (mmBtu)	1,484,073	899,533	3,236,507			5,620,113
NOx Emission Rate (lb/mmBtu)	0.011	0.011	0.008			0.009


October 8, 2020 06:33 AM

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 2020 QTR 3
Feedback Status Level:	No Errors
Submission Date/Time:	10/08/2020 6:33:12 AM
Submitter User ID:	rsilva
Submission ID:	1364169
Resubmission Required:	No
EPA Analyst:	Christopher Worley; (434) 817-4150; Worley.Christopher@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 Table1 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.

TECHNICAL SUPPORT: please visit the ECMPS Technical Support website at: https://ecmps.camdsupport.com for information about ECMPS software downloads, ECMPS News, Technical Support, documentation, tutorials, FAQs, and more.

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/airmarkets/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

ECMPS Feedback

October 8, 2020 06:33 AM

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	1,165	1,100	1,455			3,720
Operating Time (hrs)	1,105.24	1,030.52	1,401.09			3,536.85
SO2 Mass (tons)	0.5	0.5	0.7			1.7
CO2 Mass (tons)	106,358.8	100,513.5	137,963.2			344,835.5
Heat Input (mmBtu)	1,789,694	1,691,320	2,321,485			5,802,499
NOx Emission Rate (Ib/mmBtu)	0.012	0.014	0.009			0.011



January 5, 2021 09:36 AM

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 2020 QTR 4
Feedback Status Level:	No Errors
Submission Date/Time:	01/05/2021 9:36:50 AM
Submitter User ID:	rsilva
Submission ID:	1384695
Resubmission Required:	No
EPA Analyst:	Christopher Worley; (434) 817-4150; Worley.Christopher@epa.gov Stacey Zintgraff; (202) 564-2204; zintgraff.stacey@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.

TECHNICAL SUPPORT: please visit the ECMPS Technical Support website at: https://ecmps.camdsupport.com for information about ECMPS software downloads, ECMPS News, Technical Support, documentation, tutorials, FAQs, and more.

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If you have any questions regarding this correspondence, please feel free to contact your EPA Analyst listed in Table1 as soon as possible. Thank you for your attention to this matter.

Facility Name: Metcalf Energy Center

Facility ID (ORISPL): 55393 State: CA

ECMPS Feedback

January 5, 2021 09:36 AM

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	961	564	1,991	2,003		5,519
Operating Time (hrs)	907.30	537.13	1,948.64	1,977.46		5,370.53
SO2 Mass (tons)	0.4	0.3	1.0	1.0		2.7
CO2 Mass (tons)	88,196.0	53,458.5	192,340.7	200,777.9		534,773.1
Heat Input (mmBtu)	1,484,073	899,533	3,236,507	3,378,482		8,998,595
NOx Emission Rate (lb/mmBtu)	0.011	0.011	0.008	0.008		0.009



January 5, 2021 09:37 AM

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 2020 QTR 4
Feedback Status Level:	No Errors
Submission Date/Time:	01/05/2021 9:37:12 AM
Submitter User ID:	rsilva
Submission ID:	1384700
Resubmission Required:	No
EPA Analyst:	Christopher Worley; (434) 817-4150; Worley.Christopher@epa.gov Stacey Zintgraff; (202) 564-2204; zintgraff.stacey@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.

TECHNICAL SUPPORT: please visit the ECMPS Technical Support website at: https://ecmps.camdsupport.com for information about ECMPS software downloads, ECMPS News, Technical Support, documentation, tutorials, FAQs, and more.

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If you have any questions regarding this correspondence, please feel free to contact your EPA Analyst listed in Table1 as soon as possible. Thank you for your attention to this matter.

Facility Name: Metcalf Energy Center

Facility ID (ORISPL): 55393 State: CA

ECMPS Feedback

January 5, 2021 09:37 AM

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	1,165	1,100	1,455	1,704		5,424
Operating Time (hrs)	1,105.24	1,030.52	1,401.09	1,661.48		5,198.33
SO2 Mass (tons)	0.5	0.5	0.7	0.8		2.5
CO2 Mass (tons)	106,358.8	100,513.5	137,963.2	167,811.9		512,647.4
Heat Input (mmBtu)	1,789,694	1,691,320	2,321,485	2,823,747		8,626,246
NOx Emission Rate (lb/mmBtu)	0.012	0.014	0.009	0.008		0.010

Appendix 3

Metcalf CT1				Metcalf CT2	2	Metcalf ST1			
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	65,641	771.9	January	69,161	814.4	January	80,543	4.89	
February	35,378	413.8	February	52,870	630.9	February	51,970	10.01	
March	24,453	288.5	March	28,039	334.5	March	30,879	5.85	
April	19,386	226.4	April	53,222	630.0	April	41,785	8.67	
May	-	-	May	29,005	355.7	May	17,009	9.60	
June	55,372	658.7	June	57,265	675.7	June	69,211	32.79	
July	85,003	1,024.2	July	45,832	543.9	July	82,159	29.31	
August	100,178	1,185.4	August	83,268	980.8	August	119,927	74.46	
September	81,185	967.6	September	61,839	735.2	September	91,888	49.39	
October	99,466	1,174.2	October	75,442	885.2	October	110,317	37.00	
November	76,288	901.5	November	64,209	753.0	November	83,665	18.59	
December	110,915	1,289.3	December	101,739	1,177.6	December	129,933	46.57	

Operating Data Summary January 2020 - December 2020

	METCALF ENERGY CENTER - COMPLIANCE MATRIX							
START OF COMER	RCIAL OPERATION	5/29/2005	No. of the lot of the lot of the					
THROUGH YEAR E	END OF 2020	12/31/2020						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Date approved by 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	
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	
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 Ib/MMBTU at any 3-hr rolling average.	Same as above	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual		Ongoing	

		METCALF ENERGY CENTER - COMPLIANCE	MATRIX				
START OF COMER	RCIAL OPERATION	5/29/2005					
THROUGH YEAR E	END OF 2020	12/31/2020					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Date approved by CPM	Status/ Comments
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	Monthly		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
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

	METCALF ENERGY CENTER - COMPLIANCE MATRIX							
START OF COMER	CIAL OPERATION	5/29/2005						
THROUGH YEAR E	END OF 2020	12/31/2020						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Date approved by CPM	Status/ Comments	
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-I)	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	
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	
AQ-44	MEC shall comply with the continuous emission monitoring requirements of 40 CFR Part 75			Ongoing	Ongoing		Ongoing	
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	

		METCALF ENERGY CENTER - COMPLIANCE	MATRIX		15 DAY STREET		
START OF COMER	CIAL OPERATION	5/29/2005					
THROUGH YEAR E	ND OF 2020	12/31/2020					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Date approved by CPM	Status/ Comments
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
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
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

	METCALF ENERGY CENTER - COMPLIANCE MATRIX										
START OF COMER	RCIAL OPERATION	5/29/2005									
THROUGH YEAR E	END OF 2020	12/31/2020									
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Date approved by CPM	Status/ Comments				
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	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				

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THROUGH YEAR END OF 2020		12/31/2020					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Date approved by 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
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
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 Ib/MMBTU at any 3-hr rolling average.	Same as above	Semi-Annual Air Quality Reports	Ongoing	Semi-Annual		Ongoing

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Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Date approved by CPM	Status/ Comments
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	Monthly		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
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

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Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM	Date approved by CPM	Status/ Comments
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-I)	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
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
AQ-44	MEC shall comply with the continuous emission monitoring requirements of 40 CFR Part 75			Ongoing	Ongoing		Ongoing
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

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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
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
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

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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

- 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
- TLSN-2: Radio and TV Interference
- TLSN-4: Transmission Right-of-Way
- 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 Specialist, at 408-361-4954.

N. pour Sincerely Charles Spandri

Interim Plant Manager Metcalf Energy Center, LLC.

Enclosures: Via Email

California Energy Commission 2020 Annual Compliance Report Metcalf Energy Center – 99-AFC-3

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