DOCKETED	
Docket Number:	97-AFC-02C
Project Title:	Sutter Power Plant Application for Certification
TN #:	231071
Document Title:	Sutter Energy Center Annual Compliance Report 2018
Description:	N/A
Filer:	Betty Chu
Organization:	Calpine
Submitter Role:	Applicant
Submission Date:	12/10/2019 2:48:06 PM
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NYSE CPN

## CALPINE CORPORATION

5029 S. TOWNSHIP ROAD

YUBA CITY, CA 95993

530.821.2060 (P)

530.821.2065 (F)

January 25, 2019

Mr. John Heiser Compliance Project Manager California Energy Commission 1516 9<sup>th</sup> Street, MS 2000 Sacramento, CA 95814

Mr. Christopher Brown, APCO Feather River Air Quality Management District 541 Washington Avenue Yuba City, CA 95991

Subject:

Sutter Energy Center; 97-AFC-2

**Annual Compliance Report Year 2018** 

Dear Mr. Heiser, Mr. Brown:

CCFC Sutter Energy, LLC, on behalf of the Sutter Energy Center, hereby submits this Annual Compliance Report for Year 2018 pursuant to the Commission Decision for the Sutter Energy Center.

This Annual Compliance Report contains the following:

- An updated compliance matrix showing the status of all open Conditions of Certification.
- A summary of the current project operating status and an explanation of any significant changes to facility operations during the year.
- 3) Documents required by the following Conditions:

Soil & Water-1 A record of the average monthly groundwater

consumption.

Soil & Water-2 The volume and method of disposal for all wastewater

streams.

Haz-1 A list of hazardous materials contained at the facility.

Vis-1 & Vis-5 Visual Resources.

Waste-3 Waste management methods.

TLSN-2 Summary of complaints and corrective actions

regarding interference.



TLSN-4

Summary of inspection results and fire protection activities along ROW.

- A cumulative listing of all post-certification changes approved by the Commission or cleared by the CPM.
- 5) An explanation for any submittal deadlines that were missed and estimate of submission.
- 6) A listing of filings made to or permits issued by other governmental agencies during the year.
- A projection of project compliance activities scheduled during the next year.
- 8) A listing of the year's addition to the on-site compliance file.

Please call Michael Buzdas at (530) 821-2074 if you have any questions.

#### CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware of significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Andrew Gundershaug

Andy Sundershay

Responsible Official & General Plant Manager

#### Enclosures:

CC:

C. Brown, FRAQMD

D. Williams, Calpine Corp.

B. McBride, Calpine Corp.

## 2) <u>Current Operating Status:</u>

### **EXECUTIVE SUMMARY**

The Sutter Energy Center began commercial operations July 1, 2001 and has operated reliably since that time. Sutter Energy Center went into cold layup in 2016 and subsequently restarted operations in 2018. The plant operated approximately 5570 service hours and achieved an availability factor of 85.87% for January through December 2018 period.

The Plant produced 589,155 Net MWHr during this period. The plant is dispatched by SMUD.

### **OPERATIONS**

### **Monthly Production**

Month	Net Production MwHr
January	0
February	0
March	28,175
April	38,046
May	5,736
June	16,236
July	107,348
August	124,280
September	61,909
October	112,951
November	1,150
December	93,324

### Scheduled Outages

There were 16 scheduled outages during 2018.

Dates	Unit	Duration (Hrs)	Reason
3/5/2018	CT1	17.35	Resume planned re-commissioning of Sutter
3/6/2018	CT1	60.60	Resume planned re-commissioning of Sutter
3/9/2018	CT1	67.47	Resume planned re-commissioning of Sutter
3/12/2018	CT1	4.55	Resume planned re-commissioning of Sutter and repair blade path issue
3/15/2018	CT1	87.00	Resume planned re-commissioning of Sutter
3/15/2018	ST	90.00	Resume planned re-commissioning of Sutter
7/3/2018	CT1	5.10	Inspection of CTG exhaust to HRSG Expansion Joint

8/31/2018	CT1	140.57	Outage to repair fogging nozzles, repair inlet drain, and remove internal filters
9/6/2018	CT2	156.53	Maintenance outage to repair HRSG tube leaks and Fuel Valve driver
9/25/2018	CT2	1,227.33	Repair unit #2 LP Evaporator leak. Complicated repair and delays due to resources.
11/1/2018	CT1	393.95	Full plant outage to conduct needed CMs and BSI Inspections
11/1/2018	ST	396.58	Maintenance Outage to repair HRSG Drains
11/28/2018	ST	2.48	CT1 Water Wash
11/28/2018	CT1	2.48	CT1 Water Wash
11/29/2018	ST	14.50	Repair Lube oil vent line
11/29/2018	CT1	14.50	Repair lube oil vent line

## **Unscheduled Outages**

There were 22 unscheduled outages during 2018.

inere were	e zz unsc	cneaulea	outages during 2018.
Dates	Unit	Duration (Hrs)	Reason
3/5/2018	CT1	1.00	Unit Trip due to LP Bleed valve position fault
3/9/2018	CT1	1.07	Fuel valve hunting, overfuel. DCS adjust on Trip setpoint
3/9/2018	CT1	0.50	High blade path spread due to clogged "A" stage witches hard, cleaning piping
3/12/2018	CT1	0.50	unit tripped on high blade path, found FME tape on Basket 3 pilot piping
3/15/2018	CT1	1.83	HRH Bypass fail to open, valve repaired
3/15/2018	ST	3.00	Forced Outage due to HRH Bypass Valve Issue
3/15/2018	ST	0.92	vapor extractor problem
3/15/2018	CT1	0.67	Vapor Extractor failure
4/19/2018	ST	1.00	Repair oil leak on RHSV
4/24/2018	ST	1.00	Unit unavailable due to CPN Fuel changing o-ring in main fuel isolation valve in yard
4/24/2018	CT1	1.00	Unit unavailable due to CPN Fuel changing o-ring in main fuel isolation valve in yard
5/29/2018	CT2	1.52	Unit tripped on vibration, replaced proximeter
5/29/2018	CT2	2.33	Ip drum level trip, recalibrated transmitter
6/3/2018	ST	0.75	HP drum level trip
6/3/2018	CT1	0.75	HP Drum Level trip
6/27/2018	CT1	4.27	replace hydraulic pump #2
6/27/2018	ST	4.27	replace ct hyd pump
9/6/2018	ST	2.37	Unit Shutdown due to A stage valve oscillation
9/6/2018	CT2	5.20	Issue with a stage fuel drive causing valve swing unit shut down
9/6/2018	ST	0.25	Excitation system Field breaker issue, breaker swapped out
9/20/2018	CT1	1.13	Excessive co, unit shut down, inlet air probe repaired
9/20/2018	ST	1.92	Unit Shutdown due to high CO, unit restarted after inlet temp probe replaced

### **MODIFICATIONS AND TESTING**

The Annual RATA and source testing for Unit 1 was conducted during the year on March 27-28, 2018. The Annual RATA and source testing for Unit 2 was conducted during the year on July 3, 2018.

### **ENVIRONMENTAL HEALTH & SAFETY**

The Plant did not experience any environmental incident in 2018.

Sutter plant personnel worked a total of 54,042 hours during this reporting time period without a lost time or OSHA recordable accident.

## 3) Required Documents to be submitted in this Report

**Noise-2** The Sutter Energy Center received 2 noise related complaints and was submitted previously on January 23, 2018 and February 2, 2018.

### Soil & Water-1: A record of the average monthly groundwater consumption.

The Sutter Energy Center consumed the following volume of groundwater during the reporting period:

2018

Month	Total Gallons	Average GPM
January-2018	1,961,449	43.9
February-2018	2,045,558	50.7
March-2018	1,809,520	40.5
April-2018	502,088	11.6
May-2018	447,360	10.0
June-2018	792,570	18.3
July-2018	3,046,385	68.2
August-2018	1,141,484	25.6
September- 2018	681,575	15.8
October-2018	1,450,325	32.5
November-2018	389,603	9.0
December-2018	1,435,086	32.1

Soil & Water-2: The volume and method of disposal for all wastewater streams.

The only wastewater stream generated on-site is sanitary waste that is trucked off-site by a licensed septic waste hauler. Approximately 6,850 gallons per month is trucked off-site.

Haz-1: A list of hazardous materials contained at the facility.

			ا	Hazardo	ous Materials A	And Waste	s Inventory	Matrix l	Report			
ERS Business/Org.	<b>Sutter Ene</b>	rgy Center				Chemical Loca	ation			CERS ID	10153109	
cility Name	<b>Sutter Ene</b>	rgy Center				4160 Batt	ery Room			Facility ID	)	
	5029 S Towns	ship Rd, Yuba Cit	ty 95993							Status	Submitted on 1/1	8/2019 2:21 PM
						Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	S
T Code/Fire Haz. (	Class	Common Name		Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
		GNB Floode 25 CAS No	d Classic Battery HCT	State Solid Type	Storage Container Other  Days on Site: 365	488	29280 Pressue Ambient Temperature Ambient	0 Waste Code	- Physical Flammable - Health Acute Toxicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation	Lead Sulfuric Acid Non Hazardous Ingred Case Material	60 % 30 % 3 % 10 %	7439-92-1 7664-93-9

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		Hazardo	us Materials A	And Waste	s Inventor	y Matrix I	Report					
acility Name Sut	ter Energy Center ter Energy Center 9 S Township Rd, Yuba City 95993	rgy Center Condensate Chemical Feed							CERS ID 10153109  Facility ID  Status Submitted on 1/18/2019			
OT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Component (For mixture only) % Wt	EHS CAS No.		
OOT: 8 - Corrosives (Liqu Solids)		Gallons State Liquid Type		500	550 Pressue Ambient Temperature Ambient	0 Waste Code	- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity	Ammonia solution Ethanolamine	40 %	1336-21-6 141-43-5		

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ERS Business/Org.	<b>Sutter Energy Cer</b>	iter			Chemical Loca	tion			CERS ID 10153109		
acility Name	<b>Sutter Energy Cer</b>	iter	CT Battery Room						Facility II	)	
	5029 S Township Rd, Y	S Township Rd, Yuba City 95993						Status Submitted on 1/18/2019 2:21 PN			
					Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	s
OT Code/Fire Haz. Cl	lass Commor	Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	Excide	EC-17	Pounds	18000	150	18000	0	- Physical	Lead	60 %	7439-92-1
	CAS No.	√FHS	State	Storage Container		Pressue	Waste Code		Sulfuric Acid	30 %	7664-93-9
	CAS NO	CAS No FHS	Solid	Other		Ambient		- Physical	Non Hazardous Ingre		
			Туре			Temperature		Explosive	Case Material	10 %	
				Days on Site: 365		Ambient	****	- Health Acute			
								Toxicity - Health			
								Reproductive			
								Toxicity			
								- Health Skin			
								Corrosion			
								Irritation			

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	Energy Center Energy Center			Chemical Loca				CERS ID <b>10153109</b> Facility ID		
	ownship Rd, Yuba City 95993							Status Submitted on 1/18/2019 2:21 PM		
OT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Components (For mixture only) % Wt	EHS CAS No.
OT: 2.2 - Nonflammable Gas		Pounds State Liquid Type		52530	40000 Pressue > Ambient Temperature Ambient	Waste Cod 141	- Physical	Ammonia	100 %	▼ 7664-41-7

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ERS Business/Org.	Sutter Energy Center Sutter Energy Center 5029 S Township Rd, Yuba City 95993			Chemical Loca	ition Storage Con	tainment		CERS ID 10153109  Facility ID  Status Submitted on 1/18/2019 2:21 PM		
	3029 3 Township Rd, Tuba City 93993			Quantities		Annual Waste	Federal Hazard	Hazar	dous Component r mixture only)	•
OT Code/Fire Haz. (	Class Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	Chevron Gear Com	State	Storage Container Steel Drum	55	110 Pressue Ambient Temperature	0 Waste Code		Lubricating Base Oil	97 %	
		Mixture	Days on Site: 365		Ambient	***				
	CHEVRON OIL ISO  CAS No	State	Storage Container Steel Drum	<b>55</b>	100 Pressue Temperature	0 Waste Code				
	V.a.!		33	22	22	0	- Physical	Severly Hydrotreated Light	50 %	64742-52-5
	Kroil CAS No	Liquid Type	Storage Container Steel Drum  Days on Site: 365	33	33 Pressue Ambient Temperature Ambient	Waste Code	Flammable - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity - Health Aspiration Hazare	Naphthenic Distilate Light Petroleum distillates Aliphatic Alcohols Glycol Ether Proprietary Ingredients	50 % 5 % 5 % 5 %	64742-95-6 78-92-2 111-76-2
	Step One CAS No	Liquid Type	Storage Container Steel Drum  Days on Site: 365	55	55 Pressue Ambient Temperature Ambient	0 Waste Code	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ	Distillates, Hydrotreated H naphthenic Amines, N-tallow alkyltrimethylenedi-propox	30 %	64742-52-5 68603-75-8
	Turbine Oil GST 10	State	55 Storage Container Steel Drum	55	55 Pressue Ambient	0 Waste Code	Toxicity - Health Aspiration Hazard	d		,

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			Hazardo	ous Materials A	And Waste	s Inventor	y Matrix	Report			
ERS Business/Org.	Sutter	Energy Center			Chemical Loca	ation			CERS ID	10153109	
acility Name	Sutter	Energy Center	Lube Oil Storage Containment						Facility	ID	
	5029 S To	ownship Rd, Yuba City 95993							Status	Submitted on 1/1	8/2019 2:21 PM
					Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	ts
OT Code/Fire Haz. Class	Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
		Turbine Oil GST 46	Gallons	200	100	155	0				
		CAS No	<u>State</u> Liquid	Storage Container Steel Drum, Other		Pressue Ambient	Waste Code	<u>L</u> .			
			Type Pure	Days on Site: 365		Temperature Ambient	<u></u>				
		Turbine Oil GST 68	Gallons	330	120	220	0				
		CAS No	State Liquid	Storage Container Steel Drum		Pressue Ambient	Waste Code	<u>L</u>			
			Type Pure	Days on Site: 365		Temperature Ambient	<u>!</u>				

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	ergy Center ergy Center			Chemical Loca  Maintena				CERS ID Facility I		
	ship Rd, Yuba City 95993							Status	Submitted on 1/18	3/2019 2:21 PM
				Quantities		Annual Waste	Federal Hazard		Hazardous Components (For mixture only)	5
OOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
OOT: 2.1 - Flammable Gases	Acetylene CAS No 74-86-2	Gas Type	Storage Container Cylinder Days on Site: 365	300	600 Pressue > Ambient Temperature Ambient	0 Waste Code	- Physical Gas Under Pressure	Acetylene	100 %	74-86-2
OT: 2.2 - Nonflammable Gases	Argon  CAS No. 7440-37-1	Gas Type	Storage Container Cylinder  Days on Site: 365	300	300 Pressue > Ambient Temperature Ambient		- Physical Gas Under Pressure	Argon	100 %	7440-37-1
	Oxygen  CAS No. 7782-44-7	Gas Type	Storage Container Cylinder  Days on Site: 365	300	1800 Pressue > Ambient Temperature Ambient	0 Waste Code	2			

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	nergy Center nergy Center			Chemical Loca				CERS ID Facility ID	10153109	
	nship Rd, Yuba City 95993			ivaturar G	as raiu				Submitted on 1/18	8/2019 2:21 PM
				Quantities		Annual Waste	Federal Hazard		zardous Component: (For mixture only)	
OOT Code/Fire Haz. Class OOT: 3 - Flammable and	Common Name Condensate and water	Unit Gallons	Max. Daily	Largest Cont.	Avg. Daily 155	Amount	- Physical	Component Name Natural Gas Condensate	% Wt e 80 %	EHS CAS No. 64741-47-5
Combustible Liquids Flammable Liquid, Class I-A	CAS No	State S Liquid A Type	Storage Container Aboveground Tank Days on Site: 365		Pressue Ambient Temperature Ambient	Waste Code	Flammable - 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		20 %	

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		Hazardoı	us Materials	And Waste	s Inventory	/ Matrix	Report			
RS Business/Org.	Sutter Energy Center			Chemical Loca	ation			CERS ID	10153109	
cility Name	Sutter Energy Center			Oil Storag	e Area			Facility ID		
	5029 S Township Rd, Yuba City 95993							Status	Submitted on 1/1	8/2019 2:21 PM
						Annual		I	Hazardous Component	ts
				Quantities		Waste	Federal Hazard		(For mixture only)	
OT Code/Fire Haz.		Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	Oily Solids	Gallons	165	55	55	1500	- Health	Oil filters	100 %	
	CAS No		Storage Container		Pressue			Absorbent rags of pac	ls 100 %	
		Solid	Steel Drum		Ambient	223	Toxicity - Health Skin			
		Туре			Temperature		Corrosion			
		Waste	Days on Site: 365		Ambient		Irritation			
							- Health			
							Respiratory Skin			
							Sensitization			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard			
							- Health Germ			
							Cell Mutagenicity		400.0/	,
	Oily Water	Gallons		500	100	2500	- Health Skin	Oily Water	100 %	
	CAS No		Storage Container		Pressue	Waste Code	Corrosion Irritation			
		Liquid	Plastic/Non-metal	ic Drum	Ambient	223	- Health			
		Туре			Temperature		Respiratory Skin			
		Waste	Days on Site: 365		Ambient		Sensitization			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard	l		
							- Health Germ			
							Cell Mutagenicity			

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CERS Business/Org. Facility Name	Sutter Energy Center Sutter Energy Center 5029 S Township Rd, Yuba City 95993			Chemical Loca Oil Storag				CERS ID Facility I Status	<b>10153109</b> Submitted on 1/1	3/2019 2:21 PM
				Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	
OT Code/Fire Haz. (		Unit	Max. Daily	Largest Cont.	Avg. Daily 55	Amount 0	Categories	Component Name	% Wt	EHS CAS No.
	COILSHINE FOAMING ALKALINE COIL CLEANER  CAS No	State Liquid Type Mixture	5 55 Storage Container Plastic/Non-metalic	<b>55</b> Drum	Pressue Ambient Temperature Ambient	Waste Code				
	Diesel Fuel <u>CAS No.</u> 68476-34-6	Gallons State Liquid Type Pure	Storage Container Aboveground Tank  Days on Site: 365	500	250 Pressue Ambient Temperature Ambient	0 Waste Code	- Physical Flammable - Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Specific Target Organ Toxicity - Health Aspiration Hazaro	Diesel Fuel	100 %	68476-34-6
OT: 3 - Flammabl	Ethylene Glycol  CAS No 000107-21-1	Gallons State Liquid Type Pure	Storage Container Plastic/Non-metalic Days on Site: 365		55 Pressue Ambient Temperature Ambient	0 Waste Code	- Health Acute	Ethylene Glycol	99 %	000107-21-
ombustible Liquid	WODILL REGAL 301 22	Gallons State Liquid Type	Storage Container Steel Drum	55	100 Pressue Ambient Temperature Ambient	Waste Code	Reproductive			
	STEP ONE OIL SOLUABLE CLEAN BY JOHNSON CAS No	State Liquid Type	Storage Container Steel Drum	55	55 Pressue Temperature	0 Waste Code				

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		Hazardou	ıs Materials <i>I</i>	and Waste	s Inventory	v Matriy I	Renort			
CERS Business/Org.	Sutter Energy Center Sutter Energy Center	Hazardoo	is iviaterials /	Chemical Loca Plant Equ	ntion	VIVIACITA	пероп	CERS ID Facility ID	10153109	
	5029 S Township Rd, Yuba City 95993					Annual			Submitted on 1/1	•
OOT Code/Fire Haz. 0	Class Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Waste Amount	Federal Hazard Categories	Component Name	(For mixture only) % Wt	EHS CAS No.
	Hydraulic Oil AW46  CAS No	Liquid S Type	torage Container teel Drum, Other	120	Pressue Ambient Temperature Ambient	0 Waste Code		Lubricating Base Oil	99 %	
	Mobile DTE 26  CAS No	Liquid S Type	400 torage Container teel Drum, Other Days on Site: 365	120	400 Pressue Ambient Temperature Ambient	0 Waste Code		Zinc Alkyl Dithiophosat	e	68649-42-3
	Shell Turbo DR46  CAS No	Liquid S Type	220 torage Container teel Drum, Other Days on Site: 365	120	Pressue Ambient Temperature Ambient	0 Waste Code	- Health Reproductive "Toxicity - Health Specific Target Organ Toxicity	Trixylyl Phosphate	100 %	25155-23-1
	Turbine Oil GST 32  CAS No	Liquid S Type	15000 torage Container teel Drum, Other	5500	15000 Pressue Ambient Temperature Ambient	0 Waste Code				

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			Hazardo	ous Materials	And Waste	s Inventor	y Matrix	Report			
acility Name	Sutter Ene	rgy Center rgy Center ship Rd, Yuba City 95993			Chemical Loca				CERS ID Facility I Status	D	18/2019 2:21 PM
OOT Code/Fire Haz. Cl	lass	Common Name	Unit	Max. Daily	Quantities Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Component Name	Hazardous Compone (For mixture only) % Wt	
		Hypersperse MDC700  CAS No	Gallons State Liquid Type Mixture	Storage Container Tote Bin  Days on Site: 365	400	400 Pressue Ambient Temperature Ambient	0 Waste Code				
OOT: 8 - Corrosives solids) Corrosive	(Liquids and	Optisperse HP 54434  CAS No 1310-73-2	Gallons State Liquid Type Mixture	Storage Container Tote Bin  Days on Site: 365	55	280 Pressue Ambient Temperature Ambient	O Waste Code	- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye	Sodium Hydroxide Ca	austic Soda 7 %	1310-73-2

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			Hazardo	ous Materials <i>i</i>	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org.	Sutter Energy Cent	ter			Chemical Loca	ition			CERS ID	10153109	
Facility Name	Sutter Energy Cent	ter			Switchyar	d			Facility II		
	5029 S Township Rd, Yu	ıba City 95993							Status	Submitted on 1/1	8/2019 2:21 PM
					Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	cs
DOT Code/Fire Haz. (	Class Common	Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	Sulfur I CAS No 2551-62-	Hexaflouride SF6	Gas Type	Storage Container Other  Days on Site: 365	145	580 Pressue Ambient Temperature Ambient		- Health <sub>e</sub> Aspiration Hazard	d		

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		Hazardou	s Materials <i>l</i>	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org.	Sutter Energy Center			Chemical Loca	ition			CERS ID 1015	3109	
Facility Name	Sutter Energy Center			Transform	ners in Plan	t		Facility ID		
	5029 S Township Rd, Yuba City 95993							Status Submi	ted on 1/	18/2019 2:21 PM
				Quantities		Annual Waste	Federal Hazard		Componer 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.
	Luminol Tri  CAS No	Liquid O Type	50000 corage Container other ays on Site: 365	14416	50000 Pressue Ambient Temperature Ambient	0 Waste Cod	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Lubricating Base Oil 1,2,3,4-Tetrahydronaphthaler	e 2%	119-64-2

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		Hazard	ous Materials	And Waste	s Inventor	y Matrix	Report			
CERS Business/Org.	<b>Sutter Energy Center</b>			Chemical Loca	ation			CERS ID	10153109	
Facility Name	<b>Sutter Energy Center</b>			Various lo	cations			Facility I	D	
	5029 S Township Rd, Yuba City	95993						Status	Submitted on 1/1	8/2019 2:21 PM
				Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	s
DOT Code/Fire Haz. O	Class Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	Propane CAS No 74-98-6	Cu. Fer State Gas Type Pure	et 250 Storage Container Cylinder Days on Site: 365	<b>80</b> 	200 Pressue > Ambient Temperature Ambient	••	- Physical Flammable - Physical Gas Under Pressure	Propane	100 %	74-98-6

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			Hazaruc	ous Materials			ıvıatrıx	Report			
ERS Business/Org.		ergy Center			Chemical Loca				CERS ID 1	0153109	
cility Name	Sutter Ene	ergy Center			Water Tre	eatment Are	a		Facility ID		
	5029 S Town	ship Rd, Yuba City 95993							Status S	ubmitted on 1/18	8/2019 2:21 PM
					Quantities		Annual Waste	Federal Hazard		ardous Components For mixture only)	S
OT Code/Fire Haz.	Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
		CAUSTIC SODA BEANS	Pounds	2000	100	2000	0				
		CAS No	State	Storage Container		Pressue	Waste Code				
			Solid	Bag		Ambient					
			Туре			Temperature					
T 0 C	/1					Ambient		Dia dia di	Carlt as Californ	10.0/	7757.02.7
DT: 8 - Corrosive olids)	es (Liquias ana	Optiguard MCA4288	Gallons		55	110	0	- Physical Corrosive To	Sodium Sulfite	10 %	7757-83-7
Jiiusj		CAS No	State	Storage Container Plastic/Non-meta		Pressue	Waste Code		Sodium Hydroxide	10 %	1310-73-2
			Liquid -	Plastic/Non-meta	iic Druiii	Ambient		- Health Skin	Sodium Carbonate	3 %	497-19-8
			Type Mixture			Temperature Ambient		Corrosion	2-Diethylaminoethanol	3 %	100-37-8
			Wilkture			Ambient		Irritation			
								- Health Serious			
								Eye Damage Eye			
								Irritation			
								- Health Specific			
								Target Organ Toxicity			
		Sodium tripolyphosphate	Pounds	5000	50	5000		- Health Skin	Sodium Phosphate, Triba	sic 100 %	7758-29-4
				Storage Container	30	Pressue	Waste Code	Corrosion	, ,		
		CAS No	Solid	Bag		Ambient		"Irritation			
		7758-29-4	Туре	6		Temperature		- Health			
			Pure	Days on Site: 365		Ambient		Respiratory Skin			
								Sensitization			
								- Health Serious			
								Eye Damage Eye			
								Irritation - Health Specific			
								Target Organ			
								Toxicity			
		USG TARRA ALBA	Pounds	4000	100	2000	0	•			
		CAS No	State	Storage Container		Pressue	Waste Code				
		13397-24-5	Solid	Bag		Ambient					
			Туре			Temperature					
						Ambient					

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		Hazardou	us Materials /	And Waste	s Inventory	y Matrix I	Report			
acility Name	Sutter Energy Center Sutter Energy Center 5029 S Township Rd, Yuba City 95993			Chemical Loca Water Tre	atment Bui	lding		Facility ID	<b>53109</b> nitted on 1/18	8/2019 2:21 PM
				Quantities		Annual Waste	Federal Hazard		ous Components mixture only)	S
OT Code/Fire Haz. C	lass Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	Calcium Chloride  CAS No 10043-52-4	Solid E Type	6000 Storage Container Bag	<b>50</b>	2500 Pressue Ambient Temperature	0 Waste Code		Calcium Chloride	96 %	10043-52-4
			Days on Site: 365		Ambient					
	CLOROX BLEECH CAS No		<b>50</b> Storage Container Plastic/Non-metali	 ic Drum	50 Pressue Temperature	0 Waste Code				
	CAS No.		<b>25</b> Storage Container Plastic/Non-metali	<b>25</b>  ic Drum	25 Pressue Ambient Temperature Ambient	0 Waste Code				
	Hydrous Calcium Sulfate, Solid  CAS No 10101-41-4	Solid E	3000 Storage Container Bag Days on Site: 365	<b>50</b>	1500 Pressue Ambient Temperature Ambient	0 Waste Code	- Health Acute Toxicity - Health Respiratory Skin Sensitization	Hydrous Calcium Sulfate, sol	id 100 %	10101-41-4
	Soda Ash  CAS No 497-19-8	Pounds State S Solid E Type	500 Storage Container Bag Days on Site: 365	<b>50</b>	250 Pressue Ambient Temperature Ambient	0 Waste Code	- Health Serious Eye Damage Eye Irritation	Sodium Carbonate	100 %	497-19-8
	Sodium Hypochlorite  CAS No 7681-52-9	Gallons State S Liquid F Type	110 Storage Container Plastic/Non-metali Days on Site: 365	<b>55</b> ic Drum	55 Pressue Ambient Temperature Ambient	0 Waste Code	- Physical Corrosive To Metal - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Sodium Hypochlorite Sodium Hydroxide	20 % 5 %	7681-52-9 1310-73-2
	SODIUM PHOSPHATE  CAS No		<b>200</b> Storage Container Can	<b>50</b>	200 Pressue Ambient Temperature Ambient	0 Waste Code				
	Sodium Sulfate, Anyhdrous  CAS No 7757-82-6	Solid E	5000 Storage Container Bag Days on Site: 365	<b>50</b>	5000 Pressue Ambient Temperature Ambient	0 Waste Code	- Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Sodium Sulfate, Anhydrous	99 %	7757-82-6

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		Hazardo	us Materials <i>i</i>	And Waste	s Inventory	y Matrix	Report			
ERS Business/Org.	Sutter Energy Center			Chemical Loca	tion			CERS ID 1015	3109	
acility Name	Sutter Energy Center			West Side	of Switchy	ard		Facility ID		
	5029 S Township Rd, Yuba City 95993							Status <b>Submi</b>	tted on 1/18	8/2019 2:21 PM
						Annual			Component	S
				Quantities		Waste	Federal Hazard		xture only)	
OT Code/Fire Haz.		Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	Hyvolt II	Gallons	55	55	35	0	- Health	Severly Hydrotreated Light	100 %	64742-53-6
	CAS No	•••••	Storage Container		Pressue		Aspiration Hazard	•	0.0/	120 27 0
	64742-53-6	Liquid	Steel Drum		Ambient	Waste Code		Butylated Hydroxytoluene	0 %	128-37-0
		Туре			Temperature					
		Pure	Days on Site: 365		Ambient					
	Used Oil	Gallons	250	250	100	500	- Health	Waste oil	90 %	
			Storage Container		Pressue	Waste Code	Carcinogenicity	water	10 %	
	CAS No		Steel Drum, Plastic	 :/Non-metalic	Ambient	221	- Health			
		1	Drum	,	Temperature		Reproductive			
			Days on Site: 365		Ambient		Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health			
							Respiratory Skin Sensitization			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard	l		
							- Health Germ			
							Cell Mutagenicity			

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CERS Business/Org.	Sutter Energy Center			Chemical Loca	ation			CERS ID	10153109	
acility Name	Sutter Energy Center			ZD area				Facility I		
	5029 S Township Rd, Yuba City 95993							Status	Submitted on 1/1	•
				Quantities		Annual Waste	Federal Hazard		Hazardous Component (For mixture only)	ts
OOT Code/Fire Haz. C	Class Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	<b>Calcium Chloride Solution</b>	Gallons	2000	2000	1500	0		Calcium Chloride	30 %	10043-52-4
	CAS No 10043-52-4	State Liquid	Storage Container Aboveground Tank		Pressue Ambient	Waste Code				
	250 10 02 1	Type Mixture	Days on Site: 365		Temperature Ambient					
	Soda Ash Solution	Gallons	150	150	75	0		Sodium Carbonate	5 %	497-19-8
	CAS No	State Liquid	Storage Container Aboveground Tank	 <b>C</b>	Pressue Ambient	Waste Code				
		Type Mixture	Days on Site: 365		Temperature Ambient					
	Sodium Sulfate, 10% Solution	Gallons	1000	1000	750	0		Sodium Sulfate	10 %	7757-82-6
	<u>CAS No</u>	State Liquid	Storage Container Aboveground Tank		Pressue Ambient	Waste Code				
		Type Mixture	Days on Site: 365		Temperature Ambient					

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CERS Business/Org. Sutter Ene	ergy Center			Chemical Loca	ition			CERS ID	10153109	
acility Name Sutter End	ergy Center			ZD Area				Facility I	ID	
5029 S Town	iship Rd, Yuba City 95993							Status	Submitted on 1/1	8/2019 2:21 PM
				Quantities		Annual Waste	Federal Hazard	-	Hazardous Component (For mixture only)	S
OOT Code/Fire Haz. Class	Common Name	Unit	Max. Daily	Largest Cont.	Avg. Daily	Amount	Categories	Component Name	% Wt	EHS CAS No.
	Hypersperse MDC700	Gallons	500	500	300					
	CAS No	***************************************	Storage Container Tote Bin		Pressue Ambient	Waste Code	<u></u>			
		Type Mixture	Days on Site: 365		Temperature Ambient					
OT: 8 - Corrosives (Liquids and	Sulfuric Acid	Pounds		19722	12000	0	- Health Skin	Sulfuric Acid	93 %	<b>√</b> 7664-93-9
olids)	CAS No ✓EHS	Liquid Type	Storage Container Aboveground Tank		Ambient Temperature	Waste Code	Corrosion Irritation - Health Serious Eye Damage Eye	Water	7 %	7732-18-5
		Mixture	Days on Site: 365		Ambient		Irritation			
	ZLD Salt Cake	Tons	40	20	16	288		Arsenic	0 %	7440-38-2
	CAS No		Storage Container Tote Bin		Pressue Ambient	Waste Code	<u>L</u>	Salt Cake	99 %	
		Type Waste	Days on Site: 365		Temperature Ambient					

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### **Visual Resources:**

**VIS-1:** All buildings at Sutter Energy Center have been inspected and are found to be in compliance with the permit. Any treatment maintenance will be and has been done with approved paint.

**VIS-5:** Greenleaf Unit One was under new ownership as of July 1, 2015 and is no longer subject to this condition or the CEC license.

### Waste-3: Waste Management Methods

Waste Stream	Туре	Planned	Actual
Non-hazardous Solid Waste	Recyclables Non Recyclables	Recycle (off-site) Landfill	Recycle (off-site) Landfill
Hazardous Liquid Waste	Used Oil Oily Water Corrosive Liquid	Recycle (off-site) Off-site disposal company Off-site disposal company	Recycle (off-site) Off-site disposal company Off-site disposal company
Hazardous Solid Waste	Used Oil Filters Oily Rags Universal Waste Arsenic Contaminated Salts & Minerals Non-RCRA HRSG Debris	Recycle (off-site) Off-site disposal company Recycle (off-site) Off-site disposal company Off-site disposal company	Recycle (off-site) Off-site disposal company Recycle (off-site) Off-site disposal company Off-site disposal company

### **Waste-3 Summary of Management**

### **Hazardous**

Waste Type	Planned	Actual
Used Oil	<100 gallons/month	400 gallons/yr
Used Oil Filters	< 1 barrel/month	2 barrels/yr
Absorbent pads/drip pans	< 1 barrel/month	2 barrels
Contaminated PPE	< 1 barrel/month	0
Salt Cake	Occasional	12-15 yard bins/yr
Non-RCRA HRSG debris	Occasional	12 tons

## Non-Hazardous

General office/Industrial waste\* 2ft³/ month 95 ft³/month\*\* Empty Containers <10 barrels/month 0

Salt cake 2.5 tons/day 0

## TLSN-2: Summary of Complaints and corrective actions regarding interference.

The Sutter Energy Center did not receive any complaints of interference with radio or television signals from operation of the line and related facilities during this reporting period.

## TLSN-4: Summary of inspection results and fire protection activities along ROW.

Western Area Power Administration conducted quarterly aerial inspections and periodic ground surveillance of the line.

# 4) <u>List of post-certification changes approved by the Commission or cleared by the CPM:</u>

### **2001**

- CEC staff revised due date for TSE-1 from 30 days after synchronization to 60 days after synchronization. (e-mail dated 6/21/01)
- Submitted project change request to allow interconnection of facility to Calpine's Montis Niger gas line. (5/1/01, Sutter C01-043)
- Compliance Manager approved submittal of RMP to all agencies at the same time, as opposed to obtaining outside agency approval of RMP prior to submittal of the RMP to the CEC.
- CEC staff revised due date for CLOSURE-1 from 90 days prior first energizing to 60 days prior first energizing.
- CEC staff revised due date for CEMS Monitoring Procedures in AQ-34. Revised due date is 1/9/01.

<sup>\*</sup> Waste batteries and fluorescent bulbs are segregated and taken to a local collection facility.

<sup>\*\*</sup>YSDI empties 7 yard dumpster once per month (approx. half full on average).

- Received clarification on the timing for the submittals on TLSN-3, TLSN-5, and TLSN-6. Per CEC e-mail dated 10/3/00, the timing on submittals for these conditions is tied to power being generated at the Sutter plant and sent out over the grid.
- Submitted request (Calpine letter dated 8/8/00, Sutter C00-060) and received approval (CEC letter dated 8/17/00) to place the poles on the pole bases on S. Township Road prior to the burial of the PG&E 12 kV line. Verification that the 12 kV line has been undergrounded will be submitted to the CEC prior to placing the poles on O'Banion Road pursuant to the revised verification section of LAND USE-7.
- Submitted agency requested changes to the air quality amendment, which was previously submitted on 5/16/00 (7/20/00, Sutter C00-057).
- Submitted an amendment to Air Quality Conditions of Certification AQ-32 and AQ-37 (5/16/00, Sutter C00-032). Amendments also submitted to FRAQMD and EPA.
- Submitted request and received approval to extend landscape installation deadline to 11/17/00 pursuant to VIS-4. (4/25/00, Sutter C00-018)
- Submitted short route change to eastern portion of main 20" pipeline route for approval, (Sutter C00-009), and received CEC approval of route change.
- PG&E 6" collection line will be built in Sutter County rather than Colusa County. No pipeline work other than removal of drip lines will occur in Colusa County. PG&E 6" pipeline work in Sutter County does not require permits. Condition LAND USE-3 closed per CEC letter dated 3/29/00.
- There will be only one dehydrator built for the pipeline. Dehydrator description was approved in letter from CEC dated 3/29/00. Will submit ATC from FRAQMD. (PUBLIC HEALTH-1)
- Staff approved pipeline size increase from 16" to 20".
- CEC staff revised the verification Section of BIO-5 to allow for submittal of a Consistency Determination from CDFG, which replaced the Endangered Species MOUs that are no longer being issued.
- CEC revised the verification section of BIO-7 to allow for submittal of Streambed Alteration Agreements after detailed design of the outfall, bridge or pipeline has been completed and before construction of the relevant structure begins.
- Preliminary information on the sanitary waste system has been supplied to Sutter County pursuant to SOILS & WATER-7. Sutter County staff and CEC staff have agreed that this is satisfactory for now, and that detailed information will be submitted at a later date.
- Received CEC approval on a single walled ammonia tank.

### 2002

- April 1, 2002 submitted request to modify FDOC, AFC, and PSD permits to FRAQMD, CEC, and EPA. Waiting on response.
- April 8, 2002 Soil & Water-1 received verification change to eliminate the requirement to report TDS levels and groundwater levels.

### 2003

On June 11, 2003, the Commission issued amended Air Conditions of Certification.
 These amended Conditions are now consistent with the Feather River Air Quality
 Management District's limits in the Permit to Operate and reflect the following:

Emissions shall not exceed: 680 lb NOx per turbine startup.

80 lb/hr NOx per turbine during each turbine shutdown.

100 lb/hr CO per turbine during each turbine shutdown.

Each turbine startup shall not exceed 360 minutes.

### **2004**

- CEC AQ-32 (11) and Feather River Air Quality Management District Permit to Operate Condition Number 35 were amended in June changing the CO #/startup averaging from 1-hour to 3-hours.
- Waste-3 The Waste Management Plan was revised and submitted to the CEC in September. The revision reflected the change in status of the zero discharge salt cake to a hazardous waste.
- Obtained approval on March 30, 2004 to run two aboveground pipelines between Sutter and Greenleaf Unit 1 to eliminate water treatment equipment at Greenleaf Unit 1. This project has been completed.
- Obtained approval on April 30, 2004 to perform a percolation test to install a septic waste system. To date, this test has not been conducted.

### 2005

 The Sutter Energy Center requested on September 6, 2005 to discontinue BIO-10(4) avian collision monitoring of the transmission line and heat recovery steam generator stacks.

### 2006

 On August 2, 2006, the Commission approved the Sutter Energy Center request to discontinue BIO-10(4).

### 2010

 On July 30, 2010 Sutter Energy Center was issued its Title V Federal Operating Permit and Title IV Acid Rain Permit, FRAQMD Permit No. P13005.

### 2011

 On May 11, 2011 Sutter Energy Center was issued a variance for total startup and shutdown hours. Variance effective April 1, 2011 to March 31, 2012. FRAQMD Permit No. P13005.

### <u>2016</u>

 On September 7, 2016 approved Submittal 2016-0799 requesting to waive certain AQ requirements has been reviewed and found to be ongoing and in compliance. Approved SEC June 7, 2016 letter requesting a source testing waiver for AQ-33, AQ-34, and AQ-35.

### 2017

None

### <u>2018</u>

- On August 7, 2018, FRAQMD issued the renewed Title V permit.
- On September 21, 2018 the commission approved the modification AQ-32 in the Commission Final Decision to the conditions of SEC's Title V Operating Permit, issued by the Feather River Air Quality Management District, by replacing existing per-unit limits on the number of startup and shutdown hours with combined limits to startup and shutdown hours for both combustion turbine combined cycle units.

## 5) Missed submittal deadlines:

There were no missed submission deadlines during this reporting period.

# 6) <u>Filings made to or permits issued by other governmental</u> agencies during the year:

On August 7, 2018, FRAQMD issued the renewed Title V permit and updated Condition 17.

## 7) Project compliance activities scheduled for 2019:

The RATA testing has been tentatively scheduled for February 27, 2019.

			1) Sutter Energy Ce	nter (	CEC Co	mpliance	Matrix		
Cond. #			Action required	Lead Resp.	Agency	Submittal Date	Approval date	Status	Comments
AIR QUA	ALITY								
AQ - 7	The facility shall not discharge from any source such quantities of air contaminants or other materials that cause a public nuisance.	Oper	Include in the quarterly Air Quality Reports the date and time when any accidental release of air contaminants or other materials occur, and the cause of release and measures taken to correct if	Owner		Quarterly		On going	Quarterly reports submitted in April, July, October 2018 & January 2019.
AQ - 8	The facility shall not emit particulate emissions from any single source which exceed an opacity equal to or greater than 20% for a period aggregating more than 3 minutes in any 1 hour, excluding uncombined water vapor.	Design, Oper	Include in the Air Quality Report an explanation and the date, time and duration of any violation of this condition.	Owner		Quarterly		On going	Quarterly reports submitted in April, July, October 2018 & January 2019.
AQ - 9	The facility shall not discharge into the atmosphere from any source particulate matter in excess of 0.3 grains per cubic foot of gas at standard conditions and 12% CO <sub>2</sub>	Design, Oper	Submit to the <b>District</b> and <b>CPM</b> the <b>annual test</b> and specify the level of particulate matter .	Owner		Annual		On going	Annual source testing was conducted March 27-28, 2018.
AQ - 10	Facility shall not discharge in any one hour from any source fumes in total quantities in excess of the amounts as prescribe for and shown in District's Rule 3.3 Table of Allowable Rate of Emission Based on Process Weight Rate.	Design, Oper	Indicate in the <b>Air Quality Report</b> the date, time, and duration of any <b>violation</b> of this condition.	Owner		Quarterly		On going	Quarterly reports submitted in April, July, October 2018 & January 2019.
AQ - 11	The facility shall not discharge into the atmosphere from any source of emission, any sulfur oxides in excess of 0.2 % by volume collectively calculated as SO2.	Oper	Submit to the <b>District and CPM</b> the <b>annual test</b> and specify the level of sulfur oxides.	Owner		Annual		On going	Annual source testing was conducted March 27-28, 2018.
AQ - 12	Shall not build, erect, install, or use any article, machine, equipment or other contrivance to conceal an emission which would otherwise constitute a violation of the Health and Safety Code or Rules and Regulations of the State of California.	All	Obtain approval from the <b>District and the CPM</b> prior to installing any <b>new equipment</b> that results in releasing air contaminants.	Owner				On going	Refer also to AQ-34 and AQ-36 No new qualifying equipment installed during year.
AQ - 14	The intent and the specific information as listed in AQ-14 regarding shut down of any pollution control equipment shall be report to the <b>Air Pollution Control Officer</b> at least 24 hours prior to the planned shutdown.	Oper	Include in the Air Quality Report, the dates of the equipment maintenance schedule and duration.	Owner		Quarterly		On going	Quarterly reports submitted in April, July, October 2018 & January 2019.
AQ - 15	Immediately report break down conditions to APCO, violations and corrective actions taken	Oper	Include details in the quarterly <b>Air Quality Report</b> for any <b>breakdown</b> and corrective actions taken.	Owner		Quarterly		On going	Quarterly reports submitted in April, July, October 2018 & January 2019.
AQ - 16	Submit application for a <b>Federal Operating Permit Title V</b> within 12 months after startup	Oper	Submit a copy of the <b>application</b> to <b>CPM</b> at the time of filing	Owner		Within 12 mths after Ops		Complete	Submited Title V aplication on 4/4/02
AQ - 17	Prepare a Toxic Hot Spots Emission Inventory	Oper	Submit to the District and CPM the inventory	Owner		after the first full year of		Complete	Inventory Plan submitted to CPM and District on August 29, 2002. Emission Inventory Report submitted on June 3, 2003.
AQ - 19	The equipment is subject to the federal NSPS codified at 40 CFR Part 60, Subparts A, Db and GG. Compliance with all applicable provisions of these regulations is required.	Design, Oper	Submit to the <b>District and CPM</b> a copy of a statement of compliance. In the quarterly <b>Air Quality Reports</b>	Owner		Quarterly		On going	Quarterly reports submitted in April, July, October 2018 & January 2019.
AQ - 22	ATC not transferable without written approval of APCO		If ownership or location of facility changes, 60 days prior to such action notify in writing, the District, and the CPM of intentions	Owner	CPM/District	60 days before location or ownership change		On going	NA for reporting period.
AQ - 23 & 24	Inspection scope and requirements are listed in AQ-23 & 24.	Oper	Allow reasonable access and make all site logs and plant permits available for inspection to the District, California Air Resources Board (CARB), and CEC staff	Owner	District CARB CEC Staff	Ongoing		On going	Owner to allow access to District, CARB and CEC Staff at all reasonable times and make information available.

			1) Sutter Energy Ce	nter	CEC Co	mpliance	Matrix		
Cond. #	Requirements & Task Summary		Action required	Lead Resp.	Agency	Submittal Date	Approval date	Status	Comments
AQ - 29	Use California PUC pipeline quality natural gas.	Oper	Submit to the District and CPM a copy of the monthly natural gas analysis or certification issued by the natural gas distributor.	Owner	CPM/District	Monthly during Ops.		On going	Quarterly reports submitted in April, July, October 2018 & January 2019.
AQ - 30	Basic and Control equipment to be operated and maintained per vendors practices and procedures		Refer to AQ- 14	Owner	NA			On going	
AQ - 31	Maximum heat input allowed to each permitted internal and external combustion emissions unit (CTG-1,CTG-2, Duct Burners-1 and Duct Burners-2).	Design, Oper	Include in the quarterly <b>Air Quality Reports,</b> a summary of hourly/daily fuel consumption. The Jan. AQR shall include information on amount of fuel consumed in previous calendar year.	Owner		Quarterly		On going	Quarterly reports submitted in April, July, October 2018 & January 2019.
AQ - 32	Definitions, operational limitations, and air emission limitations during facility normal operation, startup and shutdown are given in AQ-33.	Oper	Provide, in the quarterly <b>Air Quality Reports</b> , daily and annual emissions as required in this condition. Include details any violations to NOx & VOC.	Owner		Quarterly		On going	Quarterly reports submitted in April, July, October 2018 & January 2019.
AQ - 35	Source testing shall be performed annually to determine the mass emission rates and concentrations of NOx, CO, VOC, PM10 and SO2 emissions .  Startup source tests for VOC shall be conducted every seven years, beginning in 2003.	Oper	Test procedures shall be submitted to the District and CPM for review at least 60 days before the start of commercial operation and any subsequent annual compliance test for any changes to the original procedures. Notify the officials within 7 days before initial operation or each planned source testing.	Owner	CPM/District	14-Apr-03		On going	Annual source testing was conducted March 27-28, 2018.
AQ - 36	Source tests to determine ammonia slip shall be conducted within 90 days after commercial operation and thereafter as required by the APCO.	Design, Oper	Same as those provided in AQ-36	Owner	CPM/District	At request of District		On going	Annual source testing was conducted March 27-28, 2018.
AQ - 39 &	Requirements for records and logs, inspection and reporting are given in AQ-40.     Provide Quarterly Reports to the District and CPM. 3. Records & logs are to be maintained for 5 years.	Oper	Refer to AQ-40 & 41. Within 30 days of the end of the calendar quarter, provide the District and CPM the required data.	Owner	CPM/District	Quarterly		On going	Quarterly reports submitted in April, July, October 2018 & January 2019.
LAND US	SF.								
	Pave a new runway to allow for year round use by members of the local agricultural industry.	Design, Constr.	30 days prior to the start of construction of the runway, submit to the CPM a copy of the letter from the Sutter County Board of Supervisors stating the specific of the new runway as agreed upon.	Owner	Sutter County Bd of Supervisors approval of runway location	January 30, 2003 (County to CEC)	13-Mar-03	Complete	January 30, 2003 letter from Dennis Nelson, Sutter County Board of Supervisors to CPM states that Calpine has met all of its requirements with the County and the Board of Supervisors recommends that no further action is necessary to comply with this condition. Received concurrence from CEC in letter dated March 13, 2003.
	ICAL RESOURCES	1			1				
Bio - 4	Develop and implement a <b>Worker Environmental Awareness Program</b> . A protocol of the training program is provided in Bio - 4.	Ops	Keep signed statements for active operational employees on file and for at least six months after their termination.	Owner	СРМ	Ongoing		On going	Employees and Contractors training records are kept on file.
	Eliminate wastewater discharge as described in Condition SOILS & WATER-2	Ops		Owner	СРМ	Annual		Complete	Grimes Project - Completed

			1) Sutter Energy Co	enter (	CEC Co	mpliance	Matrix		
						_			
Cond. #	Requirements & Task Summary		Action required	Lead Resp.	Agency	Submittal Date	Approval date	Status	Comments
Bio - 10	Develop a monitoring plan to determine impacts to birds from avian collision and/or electrocutions on transmission lines an HRSG stacks.	Ops	Conduct avian collision monitoring and submit annual report to the CPM and Western.	Owner	СРМ	Pending		Discontinued	On August 2, 2006, the Commission approved the Sutter Energy Center's request to discontinue BIO-10(4) Avian Collision monitoring.
	Develop and implement a <b>Wetland Monitoring Program</b> to ensure the wetlands remaining onsite are not degraded.	Ops	Conduct wetlands monitoring and submit annual report to CPM and Western.	Owner	СРМ	30-Sep-03		Discontinued	On Febuary 21, 2006, the Commission approved the Sutter Energy Center's request to discontinue BIO-11 Wetland Monitoring Program.
Noise									
NOISE - 2	Throughout the construction and operation, document, investigate, evaluate and attempt to resolve all project related noise complaints.	Ops	Within 30 days of receiving a noise complaint, file a copy of the Noise Complaint Resolution Form with the Sutter County Community Services Department and with the CPM.	Owner	СРМ	Monthly		On going	As requested by the CEC, Steve Munro, only submit reports when complaints are received. Two complaints in 2018 and they were submitted within 30 days.
TRAFFIC	& TRANSPORTATION			1		•	1		
TRANS -	Require all truck deliveries using Highway 99 to use Oswald Road and South Township Road to the site. All truck deliveries using Highway 20 to use George Washington to Oswald Road and then South Township Road to the site.	Ops	Include this specific route in its contracts for truck deliveries and maintain copies onsite for inspection by the CPM.	BPC/ Owner	N/A		N/A	On going	Approved routes included with purchase orders.
SOIL AN	ID WATER RESOURCES								
	SPP will utilize a 100 percent dry cooling condensers.	Design, Oper	Provide to the CPM in the Annual Compliance Report, a record of the average month groundwater consumption.	Owner				On-going	Included in this report.
Soil & Water - 2	No project wastewater streams shall be discharged to surface water.	Design, Oper	Provide to the CPM in the Annual Compliance Report, the volume and method of disposal for all wastewater streams	Owner		Annual		On-going	Sanitary waste is trucked off-site by septic company. Plant process is zero discharge. Grimes Project completed - no wastewater is discharged.
HAZARE	OOUS MATERIAL HANDLING			1		•	1		
HAZ - 1	Shall not use any hazardous material in reportable quantities that is not listed in Table 5.8-4 and 5.8-5 of the AFC, unless approved in advance by the CPM.	All	Provide, in the Annual Compliance Report, a list of hazardous material contained at the facility.	Owner		Annual		On-going	Provide list of hazardous materials at the facility in each Annual Compliance Report. Code of Federal Regulations, Part 40, Subpart F, Section 68.130. List attached.
WASTE	MANAGEMENT								
Waste-2	Notify the CPM of any waste management- related enforcement action taken.	Ops	Notify the CPM in writing within 10 days of being aware of an impending enforcement action.	Owner				Will Start if Occurs	No occurrences in 2018.
Waste-3	Prepare and submit construction and operational waste management plans to the officials	Ops	Document how actual waste management methods in the Annual Compliance Reports.	Owner	SC/CPM	Annual		On-going	Document actual waste management methods in Annual Compliance Report. Report attached.
FACILIT	Y DESIGN								
GEN-6	Prior to any activity requiring special inspections assign a qualified and certified special inspector responsible for UBC requirements or weld inspections	Oper	15 days prior to activities, submit qualifications of special inspector to CBO with copy to CPM . Submit to CPM in Monthly Compliance Report the CBO's approval. Notify CPM of any replacement.	BPC	СВО			On-going	NA for reporting period.
Civil									
CIVIL-2	If unforeseen soil or geologic conditions are identified. Stop all work. Submit modified plans, specs, etc to CBO and obtain approval prior to resuming construction.	Oper	Notify CPM within 5 days when work is stopped. Obtain CBO approval of modifications. Copy CPM within 5 days of CBO approval.	BPC		Within 5 days of work stoppage		On-going	NA for reporting period.

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Cond. #	Requirements & Task Summary		Action required	Lead Resp.	Agency	Submittal Date	Approval date	Status	Comments
CIVIL-3	Perform inspections in accordance with UBC 1997 Chap 1, 17 and App Chap 33. Report discrepancies to CBO and CPM.	Oper	Submit to CBO and CPM within 5 days any NCRs and resolutions within 5 days. Submit to CPM in Monthly Compliance Report lost of NCR's for that month.	BPC	СВО/СРМ	Within 5 days of NCR transmit to CBO & CPM NCR & resolutions		On-going	NA for reporting period.
Transmi	ssion Line Safety & Nuisance								
TLSN-2	Identify and correct all complaints of interference w/ radio and TV signals from oper. of line and facilities. Maintain written records of complaints and corrective actions for 5 yrs.		Summarize complaints and corrective actions in <b>Annual Compliance Report</b> to CPM.	Owner	СРМ	Annual Compliance Report		Will Start if Occurs	No complaints received in 2018.
TLSN-4	Ensure transmission line ROW is kept free of combustible materials as per Section 4292 of Public Resources Code and Section 1250 of Calif. Code of Regs.		Provide summary of inspection results and any fire prevention activities along the ROW in Annual Compliance Report.	Owner	СРМ	Annual Compliance Report		On-going	On-going by SEC and WAPA.
Closure				1	l .				
	In the event of unplanned and/or sudden facility closure, notify the CPM and other responsible agencies by telephone or fax within 24 hours.		Submit letter to CPM describing the situation, expected duration, and planned actions to protect health, safety, and the environment within 7 days after unplanned closure.	Owner	CPM/ County			Will Start if Occurs	None
	In event of a planned closure, at least 12 months (or other mutually agreed-upon period of time) prior to commencing facility closure activities, file a proposed facility closure plan with the CPM for review and approval.		12 months prior to planned closure file facility closure plan with CPM	Owner	СРМ	12 months prior closure.		Will Start if Occurs	None
VISUAL RE	ESOURCES								
	Prior to first electricity generation, treat the project structures, buildings, and tanks with non-reflective colors.	Oper	60 days prior to ordering any structures that are to be color treated during manufacture, submit treatment plan to the CPM for review and approval.  30 days prior to first electricity generation, notify the CPM that all treated structures are ready for inspection.	Owner	CPM60 days prior to ordering any structure	14-May-99 Sutter C99-010 23-Jul-99 Sutter C99-044 20-Mar 01 (e-mail)	23-Jul-99 2-Aug-99 7/17/01	Complete	6/21/99 met with CEC staff at site. Staff approved both Morin Khaki and Centria Surrey Beige. Painting schedule and maintenance procedure approved on 8/2/99. ### 3/20/01 sent e-mail confirming that all prengineered buildings and factory coated structures onsite are colored the approved color. ### CEC conducted inspection on 7/17/01. Color approved.
VIS - 3	Develop a exterior lighting plan following the specific requirements given in VIS-3, pp.131.	Oper	60 days before ordering the exterior lighting, provide the lighting plan to the CPM and to the Sutter County Community Services Department for review and approval.	Owner	СРМ	14-Sep-00 Sutter C00-065 13-Oct-00 (to CBO) 14-Nov- 00 Sutter C00- 076 (sent to T. Last) 14-Dec-00 Sutter C00-079 5-Dec-01 (e- mail)	4-Jan-01 (SC approval) 01-Feb-01 (CEC approval)	Complete	CEC and County have approved Sutter lighting plan submittals. ## CEC conducted inspection on 7/24/01. There were lights on Sutter and Greenleaf that need to be modified. Another inspection was conducted on 10/30/01 w/ Tom Miller. The modifications were completed, and notice of completion was sent to S. Munro on 12/5/01. CEC verbal approval by Steve Munro on 2/13/03.
	Have the Greenleaf 1 facilities painted to match the colors of the SPP. Specific requirements are given in VIS-5, pp 134-135.	Oper	60 days prior to electricity generation at SPP, submit a treatment plan for Greenleaf 1 to the CPM for review and approval.	Owner	СРМ	29-Sep-00 Sutter C00-066 2-Nov-00 (e- mail) 6-Nov-00 (e-mail) 9-Jan- 01 Sutter C01- 003 11-Jan-01 (e-mail) 24-Sep- 01 (e-mail)	Confirmed w/ Munro on 5/17/01 that GL painting plan had been approved.	Complete	Addendum to the painting plan confirming e-mail and telephone conversations regarding Greenleaf painting was submitted on 1/9/01. On 1/11/01 sent e-mail confirming that Greenleaf painting is complete except for two warehouses that Bechtel will paint. ### CEC conducted inspection on 7/17/01. On 9/24/01 submitted e-mail with photographs of the two painted Greenleaf warehouses (these warehouses hadn't yet been painted when CEC was here for inspection). CEC final approval pending. CEC verbal approval by Steve Munro on 2/13/03. Greenleaf Unit One was under new ownership as or July 1, 2015.