

## DOCKETED

<b>Docket Number:</b>	97-AFC-02C
<b>Project Title:</b>	Sutter Power Plant Application for Certification
<b>TN #:</b>	216525
<b>Document Title:</b>	Annual Compliance Report Year 2016
<b>Description:</b>	Annual Compliance Report for Sutter Energy Center, 2017 (for 2016 Operating Year)
<b>Filer:</b>	Eric Veerkamp
<b>Organization:</b>	CCFC Sutter Energy, LLC, on behalf of Sutter Energy Center
<b>Submitter Role:</b>	Applicant Representative
<b>Submission Date:</b>	3/13/2017 10:51:33 AM
<b>Docketed Date:</b>	3/13/2017

February 19, 2017

Mr. Eric Veerkamp  
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 2016**

Dear Mr. Veerkamp, Mr. Brown:

CCFC Sutter Energy, LLC, on behalf of the Sutter Energy Center, hereby submits this Annual Compliance Report for Year 2016 pursuant to the Commission Decision for the Sutter Energy Center.

This Annual Compliance Report contains the following:

- 1) An updated compliance matrix showing the status of all open Conditions of Certification.
- 2) 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:

<b>Soil &amp; Water-1</b>	A record of the average monthly groundwater consumption.
<b>Soil &amp; Water-2</b>	The volume and method of disposal for all wastewater streams.
<b>Haz-1</b>	A list of hazardous materials contained at the facility.
<b>Vis-1 &amp; Vis-5</b>	Visual Resources.
<b>Waste-3</b>	Waste management methods.
<b>TLSN-2</b>	Summary of complaints and corrective actions regarding interference.

**TLSN-4**

Summary of inspection results and fire protection activities along ROW.

- 4) 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.
- 7) 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 me at (925) 890-1051 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,



Allison Bryan  
Authorized Signatory & Operations & Maintenance Manager

Enclosures:

cc: C. Brown, FRAQMD  
D. Williams, Calpine Corp.  
B. McBride, Calpine Corp.  
A. Gundershaug, Calpine Corp.

**2) Current Operating Status:**

***EXECUTIVE SUMMARY***

The Sutter Energy Center began commercial operations July 1, 2001 and has operated reliably since that time. Sutter Energy Center has suspended operation of the facility for 2016 and currently is in the cold layup. The plant operated approximately 3 service hours and achieved an availability factor of 0.05% for January through December 2016 period.

The Plant produced 120 Net MWhr during this period. The plant is dispatched by Calpine Energy Services (CES) into the CAISO NP-15 energy market through a pseudo tie pilot program.

***OPERATIONS***

**Monthly Production**

Month	Net Production MwHr
January	0
February	120
March	0
April	0
May	0
June	0
July	0
August	0
September	0
October	0
November	0
December	0

**Scheduled Outages**

There were no scheduled outages during 2016.

### **Unscheduled Outages**

There were no unscheduled outages during 2016.

### ***MODIFICATIONS AND TESTING***

The Annual RATA and source testing was not conducted during the year 2016. A waiver was approved by FRAQMD and CEC.

### ***ENVIRONMENTAL HEALTH & SAFETY***

The Plant did not experience any environmental incident in 2016.

Sutter plant personnel worked a total of 21,356 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 no noise related complaints in 2016.

**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:

#### **2016**

<b>Month</b>	<b>Total Gal</b>	<b>GPM</b>
January-16	36714	0.8
February-16	452108	10.8
March-16	8819	0.2
April-16	4226857	97.8
May-16	1286638	28.8
June-16	1249932	28.9
July-16	738362	16.5
August-16	1520381	34.1
September-16	3776141	87.4
October-16	1310740	29.4
November-16	733804	17.0
December-16	432200	9.7

**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 1,500 gallons per month is trucked off-site.

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

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>4160 Battery Room</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)			
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS	CAS No.
	<b>GNB Flooded Classic Battery HCT- Pounds</b>		<b>29280</b>	<b>488</b>	29280	0	- Reactive	Lead	60 %		7439-92-1
	<b>25</b>						- Pressure	Sulfuric Acid	30 %	<input checked="" type="checkbox"/>	7664-93-9
	CAS No	<input checked="" type="checkbox"/> EHS					Release	Non Hazardous Ingredients	3 %		
							- Acute Health	Case Material	10 %		
							- Chronic health				
			Mixture	Days on Site: 365							

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>Ammonia Storage Tank</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS
	<b>Anhydrous Ammonia</b> <small>CAS No. 7664-41-7</small> ✓ EHS	<b>Pounds</b>	<b>0</b>	<b>52530</b>	<b>0</b>	<b>0</b>	- Pressure Release - Acute Health	Ammonia	100 %	✓ 7664-41-7
		<small>State</small> <u>Storage Container</u> <small>Liquid</small> Aboveground Tank <small>Type</small> Pure	Days on Site: 0		<small>Pressue</small> <u>&gt; Ambient</u> <small>Temperature</small> Ambient	<small>Waste Code</small>				
	<b>Nitrogen</b> <small>CAS No. 7727-37-9</small>	<b>Cu. Feet</b>	<b>1200</b>	<b>1200</b>	<b>1000</b>	<b>0</b>	- Pressure Release	Nitrogen	99 %	7727-37-9
		<small>State</small> <u>Storage Container</u> <small>Gas</small> Cylinder <small>Type</small> Pure	Days on Site: 365		<small>Pressue</small> <u>&gt; Ambient</u> <small>Temperature</small> Ambient	<small>Waste Code</small>				



## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>Condensate Chemical Feed</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)			
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS	CAS No.
DOT: 8 - Corrosives (Liquids and Solids)	<b>Steamate NA1324</b>	<b>Gallons</b>	<b>0</b>	<b>500</b>	<b>0</b>	<b>0</b>	- Acute Health	Ammonia solution	40 %	✓	1336-21-6
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Ethanolamine	10 %		141-43-5	
		Liquid	Tote Bin		Ambient						
		<u>Type</u>	Mixture	Days on Site: 365		<u>Temperature</u>					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>CT Battery Room</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b>		Facility ID
5029 S Township Rd, Yuba City 95993		Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)			
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS	CAS No.
	<b>Excide EC-17</b>	<b>Pounds</b>	<b>18000</b>	<b>150</b>	18000	0	- Reactive	Lead	60 %		7439-92-1
	CAS No. <input checked="" type="checkbox"/> EHS	State	Storage Container		Pressure	Waste Code	- Pressure	Sulfuric Acid	30 %	<input checked="" type="checkbox"/>	7664-93-9
		Solid	Other		Ambient		Release	Non Hazardous Ingredients	3 %		
		Type			Temperature		- Acute Health	Case Material	10 %		
		Mixture	Days on Site: 365		Ambient		- Chronic health				

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>Lube Oil Storage Containment</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>Chevron Gear Compound 320</b> <u>CAS No</u>	<b>Gallons</b>	<b>275</b>	<b>55</b>	110	0	- Acute Health	Lubricating Base Oil	97 %	
		<u>State</u> Liquid	<u>Storage Container</u> Steel Drum		<u>Pressue</u> Ambient	<u>Waste Code</u>				
		<u>Type</u> Mixture	Days on Site: 365		<u>Temperature</u> Ambient					
	<b>CHEVRON OIL ISO 320</b> <u>CAS No</u>	<b>Gallons</b>	<b>200</b>	<b>55</b>	100	0				
		<u>State</u> Liquid	<u>Storage Container</u> Steel Drum		<u>Pressue</u> Ambient	<u>Waste Code</u>				
		<u>Type</u> Mixture	Days on Site: 365		<u>Temperature</u> Ambient					
	<b>Kroil</b> <u>CAS No</u>	<b>Gallons</b>	<b>33</b>	<b>33</b>	33	0	- Fire - Chronic health	Severly Hydrotreated Light Naphthenic Distilate	50 %	64742-52-5
		<u>State</u> Liquid	<u>Storage Container</u> Steel Drum		<u>Pressue</u> Ambient	<u>Waste Code</u>		Light Petroleum distillates	50 %	64742-95-6
		<u>Type</u> Mixture	Days on Site: 365		<u>Temperature</u> Ambient			Aliphatic Alcohols	5 %	78-92-2
								Glycol Ether	5 %	111-76-2
								Proprietary Ingredients	5 %	
	<b>Step One</b> <u>CAS No</u>	<b>Gallons</b>	<b>110</b>	<b>55</b>	55	0	- Fire - Chronic health	Distillates, Hydrotreated Heavy naphthenic	60 %	64742-52-5
		<u>State</u> Liquid	<u>Storage Container</u> Steel Drum		<u>Pressue</u> Ambient	<u>Waste Code</u>		Amines, N-tallow	30 %	68603-75-8
		<u>Type</u> Mixture	Days on Site: 365		<u>Temperature</u> Ambient			alkyltrimethylenedi-propoxylated		
	<b>Turbine Oil GST 100</b> <u>CAS No</u>	<b>Gallons</b>	<b>55</b>	<b>55</b>	55	0				
		<u>State</u> Liquid	<u>Storage Container</u> Steel Drum		<u>Pressue</u> Ambient	<u>Waste Code</u>				
		<u>Type</u> Pure	Days on Site: 365		<u>Temperature</u> Ambient					
	<b>Turbine Oil GST 46</b> <u>CAS No</u>	<b>Gallons</b>	<b>200</b>	<b>100</b>	155	0				
		<u>State</u> Liquid	<u>Storage Container</u> Steel Drum, Other		<u>Pressue</u> Ambient	<u>Waste Code</u>				
		<u>Type</u> Pure	Days on Site: 365		<u>Temperature</u> Ambient					
	<b>Turbine Oil GST 68</b> <u>CAS No</u>	<b>Gallons</b>	<b>330</b>	<b>120</b>	220	0				
		<u>State</u> Liquid	<u>Storage Container</u> Steel Drum		<u>Pressue</u> Ambient	<u>Waste Code</u>				
		<u>Type</u> Pure	Days on Site: 365		<u>Temperature</u> Ambient					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>Maintenance Shop</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID
		Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>Acetylene</b> <small>CAS No 74-86-2</small>	<b>Cu. Feet</b> <small>State Gas Type Pure</small>	<b>900</b> <small>Storage Container Cylinder Days on Site: 365</small>	<b>300</b>	600	0	- Fire - Acute Health - Chronic health	Acetylene	100 %	74-86-2
	<b>Argon</b> <small>CAS No 7440-37-1</small>	<b>Cu. Feet</b> <small>State Gas Type Pure</small>	<b>600</b> <small>Storage Container Cylinder Days on Site: 365</small>	<b>300</b>	300	0	- Pressure Release - Acute Health	Argon	100 %	7440-37-1
	<b>Oxygen</b> <small>CAS No 7782-44-7</small>	<b>Cu. Feet</b> <small>State Gas Type Pure</small>	<b>4500</b> <small>Storage Container Cylinder Days on Site: 365</small>	<b>300</b>	1800	0				

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>Oil Storage Area</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>Oily Solids</b>	<b>Gallons</b>	<b>165</b>	<b>55</b>	55	1500	- Chronic health	Oil filters	100 %	
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>		Absorbent rags of pads	100 %	
		<u>Solid</u>	Steel Drum		<u>Ambient</u>	223				
		<u>Type</u>			<u>Temperature</u>					
		<u>Waste</u>	Days on Site: 365		<u>Ambient</u>					
	<b>Oily Water</b>	<b>Gallons</b>	<b>500</b>	<b>500</b>	100	2500	- Chronic health	Oily Water	100 %	
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>				
		<u>Liquid</u>	Plastic/Non-metalic Drum		<u>Ambient</u>	223				
		<u>Type</u>			<u>Temperature</u>					
		<u>Waste</u>	Days on Site: 365		<u>Ambient</u>					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b> Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993	Chemical Location <b>Oil Storage Shed</b>	CERS ID <b>10153109</b> Facility ID Status <b>Draft</b>
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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>COILSHINE FOAMING ALKALINE COIL CLEANER</b>	<b>Gallons</b>	<b>55</b>	<b>55</b>	55	0				
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>				
		Liquid	Plastic/Non-metalic Drum		Ambient					
		<u>Type</u>			<u>Temperature</u>					
		Pure			Ambient					
	<b>Diesel Fuel</b>	<b>Gallons</b>	<b>500</b>	<b>500</b>	250	0	- Fire	Dielel Fuel	100 %	68476-34-6
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	- Acute Health			
	68476-34-6	Liquid	Aboveground Tank		Ambient		- Chronic health			
		<u>Type</u>			<u>Temperature</u>					
		Pure	Days on Site: 365		Ambient					
	<b>Ethylene Glycol</b>	<b>Gallons</b>	<b>55</b>	<b>55</b>	55	0	- Fire	Ethylene Glycol	99 %	000107-21-1
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	- Acute Health			
	000107-21-1	Liquid	Plastic/Non-metalic Drum		Ambient		- Chronic health			
		<u>Type</u>			<u>Temperature</u>					
		Pure	Days on Site: 365		Ambient					
DOT: 3 - Flammable and Combustible Liquids	<b>MOBILE REGAL SGT 22</b>	<b>Gallons</b>	<b>600</b>	<b>55</b>	100	0	- Fire			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>				
	68424-31-7	Liquid	Steel Drum		Ambient					
		<u>Type</u>			<u>Temperature</u>					
					Ambient					
	<b>STEP ONE OIL SOLUABLE CLEANER BY JOHNSON</b>	<b>Gallons</b>	<b>55</b>	<b>55</b>	55	0				
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>				
		Liquid	Steel Drum							
		<u>Type</u>			<u>Temperature</u>					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>Plant Equipment</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b>		Facility ID
5029 S Township Rd, Yuba City 95993		Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>Hydraulic Oil AW46</b>	<b>Gallons</b>	<b>220</b>	<b>120</b>	220	0	- Acute Health	Lubricating Base Oil	99 %	
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>				
		<u>Liquid</u>	Steel Drum, Other		<u>Ambient</u>					
		<u>Type</u>			<u>Temperature</u>					
		<u>Pure</u>	Days on Site: 365		<u>Ambient</u>					
	<b>Mobile DTE 26</b>	<b>Gallons</b>	<b>400</b>	<b>120</b>	400	0		Zinc Alkyl Dithiophosate		68649-42-3
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>				
		<u>Liquid</u>	Steel Drum, Other		<u>Ambient</u>					
		<u>Type</u>			<u>Temperature</u>					
		<u>Pure</u>	Days on Site: 365		<u>Ambient</u>					
	<b>Shell Turbo DR46</b>	<b>Gallons</b>	<b>220</b>	<b>120</b>	220	0	- Chronic health	Trixylyl Phosphate	100 %	25155-23-1
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>				
	25155-23-1	<u>Liquid</u>	Steel Drum, Other		<u>Ambient</u>					
		<u>Type</u>			<u>Temperature</u>					
		<u>Pure</u>	Days on Site: 365		<u>Ambient</u>					
	<b>Turbine Oil GST 32</b>	<b>Gallons</b>	<b>15000</b>	<b>5500</b>	15000	0	- Fire - Acute Health			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>				
		<u>Liquid</u>	Steel Drum, Other		<u>Ambient</u>					
		<u>Type</u>			<u>Temperature</u>					
		<u>Pure</u>	Days on Site: 365		<u>Ambient</u>					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>R. O. Building</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>Hypersperse MDC700</b>	<b>Gallons</b>	<b>400</b>	<b>400</b>	400	0	- Acute Health			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>				
		Liquid	Tote Bin		Ambient					
		<u>Type</u>			<u>Temperature</u>					
		Mixture	Days on Site: 365		Ambient					
	<b>VpCl-337</b>	<b>Gallons</b>	<b>220</b>	<b>55</b>	220	0	- Acute Health	2-aminoethanol	3 %	141-43-5
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>		propan-2-ol	1 %	67-63-0
		Liquid	Plastic/Non-metalic Drum		Ambient					
		<u>Type</u>			<u>Temperature</u>					
		Mixture	Days on Site: 365		Ambient					



## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>Switchyard</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS
	<b>Sulfur Hexafluoride SF6</b>	<b>Pounds</b>	<b>580</b>	<b>145</b>	<b>580</b>	<b>0</b>	<b>- Acute Health</b>			
	<u>CAS No</u> 2551-62-4	<u>State</u> Gas	<u>Storage Container</u> Other		<u>Pressure</u> Ambient	<u>Waste Code</u>				
		<u>Type</u> Pure	Days on Site: 365		<u>Temperature</u> Ambient					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>Transformers in Plant</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>Luminol Tri</b>	<b>Gallons</b>	<b>50000</b>	<b>14416</b>	50000	0	- Acute Health	Lubricating Base Oil		
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>		1,2,3,4-Tetrahydronaphthalene	2 %	119-64-2
		<u>Liquid</u>	<u>Other</u>		<u>Ambient</u>					
		<u>Type</u>			<u>Temperature</u>					
		<u>Pure</u>	Days on Site: 365		<u>Ambient</u>					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>Various locations</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>Propane</b>	<b>Cu. Feet</b>	<b>250</b>	<b>80</b>	200	0	- Fire - Pressure Release	Propane	100 %	74-98-6
	<u>CAS No</u> 74-98-6	<u>State</u> Gas	<u>Storage Container</u> Cylinder		<u>Pressue</u> > Ambient	<u>Waste Code</u>				
		<u>Type</u> Pure	Days on Site: 365		<u>Temperature</u> Ambient					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>Water Treatment Area</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>CAUSTIC SODA BEANS</b> <u>CAS No</u>	<b>Pounds</b>	<b>2000</b>	<b>100</b>	2000	0				
		<u>State</u> Solid	<u>Storage Container</u> Bag		<u>Pressue</u> Ambient	<u>Waste Code</u>				
		<u>Type</u> Pure	Days on Site: 365		<u>Temperature</u> Ambient					
	<b>Sodium tripolyphosphate</b> <u>CAS No</u> 7758-29-4	<b>Pounds</b>	<b>5000</b>	<b>50</b>	5000		- Acute Health	Sodium Phosphate, Tribasic	100 %	7758-29-4
		<u>State</u> Solid	<u>Storage Container</u> Bag		<u>Pressue</u> Ambient	<u>Waste Code</u>				
		<u>Type</u> Pure	Days on Site: 365		<u>Temperature</u> Ambient					
	<b>Steamate PAS6090</b> <u>CAS No</u>	<b>Gallons</b>	<b>250</b>	<b>250</b>	100		- Fire - Acute Health - Chronic health	Ammonium Hydroxide N-9-Octadecenyl-1, 3-propanediamine	60 % 13 %	1336-21-6 7173-62-8
		<u>State</u> Liquid	<u>Storage Container</u> Plastic/Non-metalic Drum		<u>Pressue</u> Ambient	<u>Waste Code</u>				
		<u>Type</u> Mixture	Days on Site: 365		<u>Temperature</u> Ambient					
	<b>USG TARRA ALBA</b> <u>CAS No</u> 13397-24-5	<b>Pounds</b>	<b>4000</b>	<b>100</b>	2000	0				
		<u>State</u> Solid	<u>Storage Container</u> Bag		<u>Pressue</u> Ambient	<u>Waste Code</u>				
		<u>Type</u>			<u>Temperature</u> Ambient					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b> Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993	Chemical Location <b>Water Treatment Building</b>	CERS ID <b>10153109</b> Facility ID Status <b>Draft</b>
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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>Calcium Chloride</b> <small>CAS No 10043-52-4</small>	<b>Pounds</b>	<b>6000</b>	<b>50</b>	2500	0		Calcium Chloride	96 %	10043-52-4
		<small>State</small> Solid	<small>Storage Container</small> Bag		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small> Pure	Days on Site: 365		<small>Temperature</small> Ambient					
	<b>CLOROX BLEECH</b> <small>CAS No</small>	<b>Gallons</b>	<b>50</b>	<b>10</b>	50	0				
		<small>State</small> Liquid	<small>Storage Container</small> Plastic/Non-metalic Drum		<small>Pressue</small>	<small>Waste Code</small>				
		<small>Type</small>			<small>Temperature</small>					
	<b>DYNALENE EG</b> <small>CAS No</small>	<b>Gallons</b>	<b>25</b>	<b>25</b>	25	0				
		<small>State</small> Liquid	<small>Storage Container</small> Plastic/Non-metalic Drum		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small>			<small>Temperature</small> Ambient					
	<b>Hydrous Calcium Sulfate, Solid</b> <small>CAS No 10101-41-4</small>	<b>Pounds</b>	<b>3000</b>	<b>50</b>	1500	0	- Acute Health - Chronic health	Hydrous Calcium Sulfate, solid	100 %	10101-41-4
		<small>State</small> Solid	<small>Storage Container</small> Bag		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small> Pure	Days on Site: 365		<small>Temperature</small> Ambient					
	<b>Soda Ash</b> <small>CAS No 497-19-8</small>	<b>Pounds</b>	<b>500</b>	<b>50</b>	250	0	- Reactive	Sodium Carbonate	100 %	497-19-8
		<small>State</small> Solid	<small>Storage Container</small> Bag		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small> Pure	Days on Site: 365		<small>Temperature</small> Ambient					
	<b>Sodium Hypochlorite</b> <small>CAS No 7681-52-9</small>	<b>Gallons</b>	<b>110</b>	<b>55</b>	55	0	- Acute Health	Sodium Hypochlorite Sodium Hydroxide	20 % 5 %	7681-52-9 1310-73-2
		<small>State</small> Liquid	<small>Storage Container</small> Plastic/Non-metalic Drum		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small> Mixture	Days on Site: 365		<small>Temperature</small> Ambient					
	<b>SODIUM PHOSPHATE</b> <small>CAS No</small>	<b>Pounds</b>	<b>200</b>	<b>50</b>	200	0				
		<small>State</small> Solid	<small>Storage Container</small> Can		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small>			<small>Temperature</small> Ambient					
	<b>Sodium Sulfate, Anyhdrous</b> <small>CAS No 7757-82-6</small>	<b>Pounds</b>	<b>5000</b>	<b>50</b>	5000	0	- Acute Health	Sodium Sulfate, Anhydrous	99 %	7757-82-6
		<small>State</small> Solid	<small>Storage Container</small> Bag		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small> Pure	Days on Site: 365		<small>Temperature</small> Ambient					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b>	Chemical Location <b>West Side of Switchyard</b>	CERS ID <b>10153109</b>
Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993		Facility ID Status <b>Draft</b>

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>Hyvolt II</b>	<b>Gallons</b>	<b>55</b>	<b>55</b>	35	0	- Acute Health	Severly Hydrotreated Light Naphthenic Distilate	100 %	64742-53-6
	<u>CAS No</u> 64742-53-6	<u>State</u> Liquid	<u>Storage Container</u> Steel Drum		<u>Pressue</u> Ambient	<u>Waste Code</u>		Butylated Hydroxytoluene	0 %	128-37-0
		<u>Type</u> Pure	Days on Site: 365		<u>Temperature</u> Ambient					
	<b>Used Oil</b>	<b>Gallons</b>	<b>250</b>	<b>250</b>	100	500	- Chronic health	Waste oil water	90 % 10 %	
	<u>CAS No</u>	<u>State</u> Liquid	<u>Storage Container</u> Steel Drum, Plastic/Non-metalic		<u>Pressue</u> Ambient	<u>Waste Code</u> 221				
		<u>Type</u> Mixture	Drum Days on Site: 365		<u>Temperature</u> Ambient					

## Hazardous Materials And Wastes Inventory Matrix Report

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

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b> Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993	Chemical Location <b>ZLD Chemical Feed (East)</b>	CERS ID <b>10153109</b> Facility ID Status <b>Draft</b>
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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	<b>Klaraid CDP1337</b> <small>CAS No</small>	<b>Gallons</b>	<b>10</b>	<b>5</b>	5	0	- Acute Health	Aluminum chlorhydroxide	40 %	12042-91-0
		<small>State</small>	<small>Storage Container</small>		<small>Pressue</small>	<small>Waste Code</small>		Epichlorohydrin-dimethylamine copolymer	10 %	25988-97-0
		<small>Liquid</small>	Carboy		Ambient					
		<small>Type</small>			<small>Temperature</small>					
		<small>Mixture</small>	Days on Site: 365		Ambient					
DOT: 8 - Corrosives (Liquids and Solids)	<b>Optiguard MCA4288</b> <small>CAS No</small>	<b>Gallons</b>	<b>165</b>	<b>55</b>	110	0	- Acute Health	Sodium Sulfite	10 %	7757-83-7
		<small>State</small>	<small>Storage Container</small>		<small>Pressue</small>	<small>Waste Code</small>		Sodium Hydroxide	10 %	1310-73-2
		<small>Liquid</small>	Plastic/Non-metalic Drum		Ambient			Sodium Carbonate	3 %	497-19-8
		<small>Type</small>			<small>Temperature</small>			2-Diethylaminoethanol	3 %	100-37-8
		<small>Mixture</small>			Ambient					
DOT: 8 - Corrosives (Liquids and Solids)	<b>Steamate PAS6090</b> <small>CAS No</small>	<b>Gallons</b>	<b>250</b>	<b>250</b>	150		- Acute Health - Chronic health	Ammonia solution (19%)	40 %	✓ 1336-21-6
		<small>State</small>	<small>Storage Container</small>		<small>Pressue</small>	<small>Waste Code</small>		Alkyl diaminopropane	10 %	7173-62-8
		<small>Liquid</small>	Carboy, Tote Bin		Ambient					
		<small>Type</small>			<small>Temperature</small>					
		<small>Mixture</small>	Days on Site: 365		Ambient					



## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>Sutter Energy Center</b> Facility Name <b>Sutter Energy Center</b> 5029 S Township Rd, Yuba City 95993	Chemical Location <b>ZLD Chemical Feed (West)</b>	CERS ID <b>10153109</b> Facility ID Status <b>Draft</b>
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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)			
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS	CAS No.
	<b>Hypersperse MDC700</b>	<b>Gallons</b>	<b>500</b>	<b>500</b>	<b>300</b>						
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>					
		Liquid	Tote Bin		Ambient						
		<u>Type</u>			<u>Temperature</u>						
		Mixture	Days on Site: 365		Ambient						
DOT: 8 - Corrosives (Liquids and Solids)	<b>Sulfuric Acid</b>	<b>Pounds</b>	<b>19722</b>	<b>19722</b>	<b>12000</b>	<b>0</b>	- Reactive - Acute Health - Chronic health	Sulfuric Acid Water	93 % 7 %	<input checked="" type="checkbox"/>	7664-93-9 7732-18-5
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>					
		Liquid	Aboveground Tank		Ambient						
		<u>Type</u>			<u>Temperature</u>						
		Mixture	Days on Site: 365		Ambient						
	<b>ZLD Salt Cake</b>	<b>Tons</b>	<b>40</b>	<b>20</b>	<b>16</b>	<b>288</b>		Arsenic Salt Cake	0 % 99 %		7440-38-2
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>					
		Solid	Tote Bin		Ambient	181					
		<u>Type</u>			<u>Temperature</u>						
		Waste	Days on Site: 365		Ambient						

**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:** All buildings at Greenleaf Unit One 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. Greenleaf Unit One was under new ownership as of July 1, 2015.

**Waste-3: Waste Management Methods**

Waste Stream	Type	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	Recycle (off-site) Off-site disposal company Recycle (off-site) Off-site disposal company	Recycle (off-site) Off-site disposal company Recycle (off-site) Off-site disposal company

**Waste-3 Summary of Management**

**Hazardous**

<u>Waste Type</u>	<u>Planned</u>	<u>Actual</u>
Used Oil	<100 gallons/month	100 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	7-20 yard bins

**Non-Hazardous**

<u>Waste Type</u>	<u>Planned</u>	<u>Actual</u>
General office/Industrial waste*	2ft <sup>3</sup> / month	95 ft <sup>3</sup> /month**

Empty Containers	<10 barrels/month	0
Salt cake	2.5 tons/day	0

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

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

**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) List of post-certification changes approved by the Commission or cleared by the CPM:**

**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.
- 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 NO<sub>x</sub> per turbine startup.

80 lb/hr NO<sub>x</sub> 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.

## **2016**

- 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.

### **5) Missed submittal deadlines:**

There were no missed submission deadlines during this reporting period.

### **6) Filings made to or permits issued by other governmental agencies during the year:**

On May 13, 2016, FRAQMD issued a waiver for the annual source testing requirements V.28 AND VI.3 until the facility begins operating. For quality assurance testing required V.21, V.22, and V.23, FRAQMD concurs that the equipment is inoperable and that during the layup period the facility will not have emissions from the turbine/duct burner combination.

### **7) Project compliance activities scheduled for 2017:**

There is no compliance activities scheduled for 2017.

## 1) Sutter Energy Center CEC Compliance Matrix

Cond. #	Requirements & Task Summary		Action required	Lead Resp.	Agency	Submittal Date	Approval date	Status	Comments
<b>AIR QUALITY</b>									
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 <b>Air Quality Reports</b> the date and time when <b>any accidental release of air contaminants or other materials</b> occur, and the cause of release and measures taken to correct it.	Owner		Quarterly		On going	Quarterly reports submitted in April, July, October 2016 & January 2017.
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 <b>Air Quality Report</b> 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 2016 & January 2017.
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 and CPM</b> the <b>annual test</b> and specify the level of particulate matter .	Owner		Annual		On going	Annual source testing was not conducted.
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 2016 & January 2017.
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 SO <sub>2</sub> .	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 not conducted.
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 <b>Air Quality Report</b> , the dates of the <b>equipment maintenance schedule</b> and duration.	Owner		Quarterly		On going	Quarterly reports submitted in April, July, October 2016 & January 2017.
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 2016 & January 2017.
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 to CPM</b> at the time of filing	Owner		Within 12 mths after Ops		Complete	Submitted Title V application on 4/4/02
AQ - 17	Prepare a <b>Toxic Hot Spots Emission Inventory</b>	Oper	Submit to the <b>District and CPM</b> the <b>inventory</b>	Owner		First August after the first full year of operation		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 <b>40 CFR Part 60, Subparts A, Db and Gg</b> . 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 2016 & January 2017.
AQ - 22	<b>ATC</b> not transferable without written approval of <b>APCO</b>		If <b>ownership or location of facility changes</b> , 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.

## 1) Sutter Energy Center CEC Compliance Matrix

Cond. #	Requirements & Task Summary		Action required	Lead Resp.	Agency	Submittal Date	Approval date	Status	Comments
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.
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	Gas analysis results submitted in quarterly reports.
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 Air Quality Reports, 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 2016 & January 2017.
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 Air Quality Reports, 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 2016 & January 2017.
AQ - 35	<b>Source testing shall be performed</b> annually to determine the mass emission rates and concentrations of <b>NOx, CO, VOC, PM10 and SO2</b> 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 <b>60 days before the start of commercial operation</b> and any subsequent annual compliance test for any changes to the original procedures. <b>Notify the officials within 7 days</b> before initial operation or each planned source testing.	Owner	CPM/District	14-Apr-03		On going	Annual source testing was not conducted.
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 not conducted.
AQ - 39 & 40	1. Requirements for records and logs, inspection and reporting are given in AQ-40. 2. Provide <b>Quarterly Reports</b> 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 2016 & January 2017.
<b>LAND USE</b>									
Land Use - 4	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.
<b>BIOLOGICAL RESOURCES</b>									
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	CPM	Ongoing		On going	Employees and Contractors training records are kept on file.
Bio - 8	Eliminate wastewater discharge as described in Condition SOILS & WATER-2	Ops		Owner	CPM	Annual		Complete	Grimes Project - Completed



## 1) Sutter Energy Center CEC Compliance Matrix

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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	CPM	Pending		Discontinued	On August 2, 2006, the Commission approved the Sutter Energy Center's request to discontinue BIO-10(4) Avian Collision monitoring.
Bio - 11	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	CPM	30-Sep-03		Discontinued	On February 21, 2006, the Commission approved the Sutter Energy Center's request to discontinue BIO-11 Wetland Monitoring Program.
<b>Noise</b>									
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 <b>Noise Complaint Resolution Form</b> with the Sutter County Community Services Department and with the CPM.	Owner	CPM	Monthly		On going	As requested by the CEC, Steve Munro, only submit reports when complaints are received. No complaints in 2016.
<b>TRAFFIC &amp; TRANSPORTATION</b>									
TRANS - 4	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.
<b>SOIL AND WATER RESOURCES</b>									
Soil & Water - 1	SPP will utilize a 100 percent dry cooling condensers.	Design, Oper	Provide to the CPM in the <b>Annual Compliance Report</b> , 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 <b>Annual Compliance Report</b> , 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 - no wastewater is discharged.
<b>HAZARDOUS MATERIAL HANDLING</b>									
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	<b>Provide, in the Annual Compliance Report, a list of hazardous material contained at the facility.</b>	Owner		Annual		On-going	<b>Provide list of hazardous materials at the facility in each Annual Compliance Report.</b> Code of Federal Regulations, Part 40, Subpart F, Section 68.130. <b>List attached.</b>
<b>WASTE MANAGEMENT</b>									
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 2016.
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.
<b>FACILITY DESIGN</b>									
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	CBO			On-going	NA for reporting period.
<b>Civil</b>									
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.

### 1) Sutter Energy Center CEC Compliance Matrix

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	CBO/CPM	Within 5 days of NCR transmit to CBO & CPM NCR & resolutions		On-going	NA for reporting period.
<b>Transmission Line Safety &amp; Nuisance</b>									
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	CPM	Annual Compliance Report		Will Start if Occurs	No complaints received in 2016.
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.		<b>Provide summary of inspection results and any fire prevention activities along the ROW in Annual Compliance Report.</b>	Owner	CPM	Annual Compliance Report		On-going	On-going by SEC and WAPA.
<b>Closure</b>									
Closure-2	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
Closure-3	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	CPM	12 months prior closure.		Will Start if Occurs	None
<b>VISUAL RESOURCES</b>									
VIS - 1	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	CPM--60 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 pre-engineered buildings and factory coated structures onsite are colored the approved color. ### <b>CEC conducted inspection on 7/17/01. Color approved.</b>
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	CPM	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. <b>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.</b>

### 1) Sutter Energy Center CEC Compliance Matrix

Cond. #	Requirements & Task Summary		Action required	Lead Resp.	Agency	Submittal Date	Approval date	Status	Comments
VIS - 5	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	CPM	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. <b>### 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.</b>