DOCKETED	
Docket Number:	93-AFC-02C
Project Title:	Compliance - Application for Certification SMUD's Proctor & Gamble Cogeneration Project
TN #:	231111
Document Title:	Sacramento Cogeneration Authority's Procter & Gamble Cogeneration Project - 2018 Annual Compliance Report
Description:	2018 Annual Compliance Report for the Sacramento Cogeneration Authority's Procter & Gamble Cogeneration Project.
Filer:	Mary Dyas
Organization:	EthosEnergy
Submitter Role:	Applicant
Submission Date:	12/11/2019 7:10:20 AM
Docketed Date:	12/11/2019

EthosEnergy

5000 83rd St.
Sacramento, CA 95826
Phone: (916) 379-2041

January 31, 2019

Ms Mary Dyas
California Energy Commission
1516 9th St. MS 15
Sacramento, CA 95814

RE: SCA Cogeneration 2018 Annual Compliance Report
Docket# 93-AFC-2
Order # 08-0312-3

Ms. Dyas;
Attached is the 2018 Annual Compliance Report for the Sacramento Cogeneration Authority's Proctor & Gamble Cogeneration Project. This report is submitted in accordance with the above referenced docket #, General Compliance Conditions. Specific Conditions of Certification are listed in the report body. Please call me if you have any questions. I can be reached at 916-379-2041.

Jefferey P. White
SCA Cogen II
Facility Manager

Sacramento Cogeneration Authority
Proctor & Gamble Cogeneration Project

California Energy Commission
Docket # 93-AFC-2

Annual Compliance Report
For Calendar Year
2018

Distribution:

Mary Dyas	California Energy Commission
Eric Poff	Sacramento Cogeneration Authority
Mary Hetherington	Castle Peak Engineering
File 12.0446	

Attachments:

Chemical Inventory Report
Annual Outage Report
Conditions of Compliance Matrix
Efficiency Standard Calculations
Availability & Reliability Data
Annual Sewer Discharge Report
Annual SMUD 230kV Transmission Line Report

Sacramento Cogeneration Authority
Proctor & Gamble Cogeneration Project

Project Status during 2018

The facility continues to operate daily from the dispatch schedule prepared by SMUD Power Systems Operation (PSO). The schedule dispatches the facility in order to meet SMUD's daily system load as predicted by PSO. The facility may operate on Automatic Governor Control in the load range of 70-172 mW or facility operators can manually control the facility output at a preset load.

Regularly scheduled outages were taken on both Combined Cycle units in Apr 2018 to perform required boiler inspections and annual maintenance. Authorized inspectors representing our Boiler and Machinery insurance carrier and our water treatment vendor were present for the inspection. Typical annual inspections of the gas turbines, condenser, and cooling tower were done. All electrical protection devices were calibrated and re-certified. The inspection results were very favorable, and no major re-work was required.

In accordance with 40 CFR Part 98 Federal Register regulations, the SCA Cogen II Facility submitted 2017 GHG data prior to the March 30 deadline. Following independent third-party verification in July of 2018, the project received a Positive Opinion determination for the 2017 data submittal. 2018 Federal GHG data is currently under review and will be submitted prior to the March 30 deadline.

SCA continues dumping plant wastewaters to the sanitary sewer. The newest permit took effect on 1/1/18 and expires on 12/31/2021. The new permit does not require semi-annual monitoring. The change to the semi-annual monitor has also been noted in the 2018 Annual Sewer Sampling Monitoring Report included in this report. A copy of the permit is included in this report.

In February of 2018 delivery and installation of the new spare transformer occurred. This transformer was ordered to replace the one that failed in December of 2016.

In July of 2018 SMUD began a project to install a new 12KV switchyard at the SCA site. Construction continued thru December of 2018.

On November 30, 2018 SCA was issued Title V Permit TV2012-12-01 by the Sacramento Metropolitan Air Quality Management District. This is the second renewal of the site's Title V permit. The permit is valid until November 30, 2023.

Ethos Energy continues to operate the site in accordance with the Project Work Documents and applicable permits and licenses.

Sacramento Cogeneration Authority
Proctor & Gamble Cogeneration Project

Annual Reporting Requirements

AQ-39	Annual Source Testing and CEM Q/A testing was performed from Mar 6 – Mar 16, 2018. Testing included both Aux Boilers, both the Combined Cycle gas turbines and the Simple Cycle gas turbines.
EFF-1	See attachment for Efficiency Calculations
HAZ-1	See attachment for current Hazardous Material List
REL-1	See attachment for plant Reliability and Availability Data
SOIL-2	There have been no re-vegetation efforts during the report period.
VIS-1	Only minor touch up painting was completed in 2018
Waste-3	The SCA Cogen continues to use Ramos Environmental to dispose of hazardous waste materials. The Storage, Treatment and Disposal Facility used by Ramos is ENSCO, located in Wilmington, CA. During the reporting period the only materials that were disposed of were used oil filters and rags and wastewater. Ramos Environmental recycles all of our used oil. Waste Management Inc. provides disposal of non-hazardous waste. The two landfills used by Waste Management Inc. are Sacramento and Yolo Co. Landfills. Waste Management picks up recyclable materials separately for processing.
Water-1	See attachments for Annual Sewer Discharge Report
TLSN-2,3,6	See attached report from SMUD Distribution Operations

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **1B Aux Boiler**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 2.2 - Nonflammable Gases Corrosive, Flammable Gas	**Ammonia** CAS No ✓EHS 7664-41-7	**Pounds** State: Gas Type: Pure	**495** Storage Container: Cylinder Days on Site: 365	**150**	300 Pressue: > Ambient Temperature: Ambient	Waste Code: 141	- Physical Flammable - Physical Gas Under Pressure - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Anhydrous ammonia		✓	7664-41-7

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **ACID STORAGE TANK**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	SULFURIC ACID CAS No 7664-93-9 ✔EHS State: Liquid Type: Mixture Storage Container: Aboveground Tank Days on Site: 365	**Pounds**	**90000**	**90000**	60000 Pressue: Ambient Temperature: Ambient	0 Waste Code	- Physical Corrosive To Metal - Physical Hazard Not Otherwise Classified - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	SULFURIC ACID WATER	80 % 20 %	✔	7664-93-9 7732-18-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **AMMONIA TANK**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	AQUA AMMONIA	**Pounds**	**74300**	**74753**	29270	0	- Physical Hazard Not Otherwise Classified - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	AMMONIUM HYDROXIDE	70 %		7732-18-5
	CAS No ✔EHS	State: Liquid Type: Mixture	Storage Container: Aboveground Tank Days on Site: 365		Pressue: > Ambient Temperature: Ambient	Waste Code		AMMONIA	30 %	✔	7664-41-7

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **AUXILIARY TRANSFORMERS**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	UNIVOLT 60	**Gallons**	**2700**	**1350**	2700	0	- Physical Flammable - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	HYDROTREATED LIGHT NAPHTHENIC DISTILLATE	98 %		64742-53-6

CAS No

State: Liquid
Storage Container: Other
Type: Mixture
Days on Site: 365
Pressue: Ambient
Temperature: Ambient
Waste Code

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **BATTERY ROOM**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	DC Battery	**Pounds**	**3816**	**31**	3816	0	- Physical	LEAD	72 %		7439-92-1
	CAS No	State: Liquid	Storage Container: Other		Pressue: Ambient	Waste Code	Corrosive To Metal	ELECTROLYTE (SULFURIC ACID)	20 %		7664-93-9
		Type: Mixture	Days on Site: 365		Temperature: < Ambient		- Physical Hazard Not Otherwise Classified	COPPER	1 %		7440-50-8
							- Health Hazard Not Otherwise Classified	CADMIUM	0 %		7440-43-9

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **CHEMICAL BUILDING**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	ELIMIN-OX OXYGEN SCAVENGER CAS No 497-18-7	**Gallons** State Liquid Type Pure	**65** Storage Container Tank Inside Building Days on Site: 365	**75**	20 Pressue Ambient Temperature Ambient	0 Waste Code	- Health Carcinogenicity - Health Acute Toxicity - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation				
	PHOSPHATE CAS No	**Gallons** State Liquid Type Mixture	**200** Storage Container Tank Inside Building Days on Site: 365	**200**	110 Pressue Ambient Temperature Ambient	0 Waste Code	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	SODIUM TRIPOLYPHOSPHATE SODIUM HYDROXIDE	3 % 3 %		7758-29-4 1310-73-2
	AMINE CAS No	**Gallons** State Liquid Type Mixture	**300** Storage Container Tank Inside Building Days on Site: 365	**75**	75 Pressue Ambient Temperature Ambient	0 Waste Code	- Physical Hazard Not Otherwise Classified - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	CYCLOHEXYLAMINE DIETHLYLAMINOETHANOL MOPHORLINE	30 % 8 % 8 %	✓	108-91-8 100-37-8 110-91-8
	Closed loop treatment CAS No	**Gallons** State Liquid Type Mixture	**75** Storage Container Plastic/Non-metalic Drum Days on Site: 365	**25**	30 Pressue Ambient Temperature Ambient	Waste Code		Nitrate	30 %		

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **CHEMICAL STORAGE LOCKER**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	TURBINE WATER WASH SOAP	**Gallons**	**165**	**55**	80	0	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	WATER			7732-18-5
	CAS No	State: Liquid Type: Mixture	Storage Container: Plastic/Non-metalic Drum Days on Site: 365		Pressue: Ambient Temperature: Ambient	Waste Code		2- BUTOXYETHANOL			111-73-2
								ETHOXYLATED ALCOHOLS			68439-46-3

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **CHILLER 1C**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	R134A	**Pounds**	**3710**	**3710**	3710	0	- Physical Gas Under Pressure - Physical Hazard Not Otherwise Classified - Health Hazard Not Otherwise Classified				
	CAS No 812-97-2	State Gas	Storage Container Other		Pressue > Ambient	Waste Code					
		Type Pure	Days on Site: 365		Temperature Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **CHILLER BUILDING**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	LITHIUM BROMIDE SOLUTION WITH NITRATE SOLUTION	**Gallons**	**3892**	**3892**	3892	0	- Health Acute Toxicity	LITHIUM BROMIDE	54 %		7550-35-8
	CAS No	State: Liquid	Storage Container: Aboveground Tank, Other		Pressue: Ambient	Waste Code		LITHIUM NITRATE			7790-69-4
		Type: Mixture	Days on Site: 365		Temperature: Ambient			WATER	45 %		7732-18-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **COOLING TOWER CHEMICAL BUILDING**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	SODIUM HYPOCHLORITE	**Gallons**	**6000**	**7000**	3000	0	- Physical Oxidizer	SODIUM HYPOCHLORITE	13 %		7681-52-9
	CAS No	State: Liquid	Storage Container: Tank Inside Building		Pressue: Ambient	Waste Code		SODIUM HYDROXIDE	1 %		1310-73-2
		Type: Mixture	Days on Site: 365		Temperature: Ambient		- Physical Corrosive To Metal - Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	SODIUM CHLORIDE	5 %		7647-14-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **GAS COMPRESSOR AREA**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	MULTICOMPONENT METHANE MIXTURE	**Cu. Feet**	**300**	**300**	300	0	- Physical Flammable - Physical Gas Under Pressure	ETHANE	20 %		74-84-0
								PROPANE	5 %		74-98-6
								n-BUTANE	1 %		106-97-8
								i-BUTANE	1 %		75-28-5
								n-PENTANE	1 %		109-88-0

State: Gas
Storage Container: Cylinder
Pressue: > Ambient
Waste Code:
Type: Mixture
Days on Site: 365
Temperature: Ambient
CAS No

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **GAS COMPRESSORS 1, 2, 3, 4 & OIL STORAGE BUILDING**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	MOBIL DTE HEAVY MEDIUM BEARING OIL	**Gallons**	**170**	**55**	110	0	- Physical Flammable - Health Skin Corrosion Irritation	DISTILLATES PETROLEUM HYDROTREATED HEAVY PARAFFINIC	95 %		64742-54-7
	CAS No	State: Liquid Type: Mixture	Storage Container: Steel Drum Days on Site: 365		Pressue: Ambient Temperature: Ambient	Waste Code		DISTILLATES PETROLEUM SOLVENT REFINED HEAVY PARAFFINIC	5 %		64741-88-4
								PHOSPHEROUS ACID TRIS (METHYLPHENAYL) ESTER	0 %		1330-78-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **GAS COMPRESSORS 1,2,3,4 & OIL STORAGE BUILDING**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	MOBIL RARUS 427 COMPRESSOR OIL	**Gallons**	**340**	**55**	340	0	- Physical Flammable - Health Skin Corrosion Irritation	DISTILLATES PETROLEUM HYDROTREATED HEAVY PARAFFINIC	95 %		64742-54-7
	CAS No	State: Liquid Type: Mixture	Storage Container: Steel Drum Days on Site: 365		Pressue: Ambient Temperature: Ambient	Waste Code		DISTILLATES PETROLEUM SOLVENT REFINED HEAVY PARAFFINIC	6 %		64741-88-4
								PHOSPHEROUS ACID TRIS (METHYLPHENAYL) ESTER	0 %		1330-78-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **GAS COMPRESSORS, OIL STORAGE BUILDING**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	MOBIL DTE MEDIUM GAS COMPRESSOR OIL	**Gallons**	**170**	**55**	120	0	- Physical Flammable - Health Skin Corrosion Irritation	DISTILLATES PETROLEUM HYDROTREATED HEAVY PARAFFINIC	95 %		64742-54-7
	CAS No	State: Liquid	Storage Container: Steel Drum		Pressue: Ambient	Waste Code		DISTILLATES PETROLEUM SOLVENT REFIND HEAVY PARAFFINIC	5 %		64741-88-4
		Type: Mixture	Days on Site: 365		Temperature: Ambient			PHOSPHEROUS ACID TRIS (METHYLPHENAYL) ESTER	0 %		1330-78-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **GAS TURBINE PACKAGES**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	CARBON DIOXIDE	**Pounds**	**4200**	**100**	4200	0	- Physical Gas Under Pressure - Health Aspiration Hazard				
	CAS No 124-38-9	State Liquid	Storage Container Cylinder		Pressue > Ambient	Waste Code					
		Type Pure	Days on Site: 365		Temperature Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **GAS TURBINES & OIL STORAGE BUILDING**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	GAS TURBINE OIL	**Gallons**	**550**	**150**	500	0	- Physical Flammable	SYNTHETIC ESTERS	90 %		
	CAS No	State	Storage Container		Pressue	Waste Code		SYNTHETIC ESTERS	3 %		
		Liquid	Aboveground Tank, Steel Drum		Ambient		- Health Acute Toxicity	PHOSPHORIC ACID, TRIS (METHYPHENLOL) ESTER	3 %		1330-78-5
		Type			Temperature		- Health Skin Corrosion Irritation	BENZENAMINE, 4-OCTYL-N- (4-OCTYL-PHENOYL	2 %		101-67-7
		Mixture	Days on Site: 365		Ambient		- Health Serious Eye Damage Eye Irritation	NAPTHALENAMINE, N-PHENYL	2 %		90-30-2

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **GENERATORS 1, 2, 3, AND OIL STORAGE BUILDING**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	MOBIL DTE LIGHT GENERATOR OIL	**Gallons**	**1500**	**500**	900	0	- Physical Flammable - Health Skin Corrosion Irritation	DISTILLATES PETROLEUM HYDROTREATED HEAVY PARAFFINIC	95 %		64742-54-7
	CAS No	State: Liquid Type: Mixture	Storage Container: Aboveground Tank, Tank Inside Building, Steel Drum Days on Site: 365		Pressue: Ambient Temperature: Ambient	Waste Code		DISTILLATES PETROLEUM SOLVENT REFINED HEAVY PARRAFINIC	5 %		64741-88-4
								PHOSPHEROUS ACID TRIS (METHYLPHENAYL) ESTER	0 %		1330-78-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **GSU TRANSFORMERS**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	UNIVOLT N 61B	**Gallons**	**22200**	**11100**	22200	0	- Physical Hazard Not Otherwise Classified - Health Skin Corrosion Irritation	HYDROTREATED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM)	95 %		64742-53-6

CAS No

State: Liquid
Storage Container: Other
Pressue: Ambient
Type: Mixture
Days on Site: 365
Temperature: Ambient
Waste Code

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **MAINTENANCE BUILDING**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	ACETYLNE CAS No 74-86-2	**Cu. Feet** State Gas Type Pure	**840** Storage Container Cylinder Days on Site: 365	**420**	420 Pressue > Ambient Temperature Ambient	0 Waste Code	- Physical Flammable - Physical Gas Under Pressure				
	ARGON CAS No 7440-37-1	**Cu. Feet** State Gas Type Pure	**300** Storage Container Cylinder Days on Site: 365	**300**	200 Pressue > Ambient Temperature Ambient	0 Waste Code	- Physical Gas Under Pressure				
	HELIUM GAS CAS No 7440-59-7	**Cu. Feet** State Gas Type Pure	**1250** Storage Container Cylinder Days on Site: 365	**250**	250 Pressue > Ambient Temperature Ambient	0 Waste Code	- Physical Gas Under Pressure				
	NITROGEN CAS No 7727-37-9	**Cu. Feet** State Gas Type Pure	**1008** Storage Container Cylinder Days on Site: 365	**336**	672 Pressue > Ambient Temperature Ambient	0 Waste Code	- Physical Gas Under Pressure				
	OXYGEN CAS No 7782-44-7	**Cu. Feet** State Gas Type Pure	**564** Storage Container Cylinder Days on Site: 365	**282**	282 Pressue > Ambient Temperature Ambient	0 Waste Code	- Physical Gas Under Pressure - Physical Oxidizer				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **MAINTENANCE BUILDING, AUX BOILER, HRSG A/B/C STACKS**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	CAL GAS	**Cu. Feet**	**9800**	**180**	5000	0	- Physical Gas	NITRIC OXIDE	3 %		10102-43-9
	CAS No	State	Storage Container		Pressue	Waste Code	Under Pressure	CARBON MONOXIDE	3 %		630-08-0
		Gas	Cylinder		> Ambient			NITROGEN	95 %		7727-37-9
		Type			Temperature						
		Mixture	Days on Site: 365		Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **MAINTENANCE SHOP**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	WELDING SHIELD GAS CAS No State: Gas Type: Mixture Storage Container: Cylinder Days on Site: 365	**Cu. Feet**	**300**	**300**	150 Pressue: > Ambient Temperature: Ambient	0 Waste Code	- Physical Gas Under Pressure - Health Simple Asphyxiant	ARGON CARBON DIOXIDE	75 % 25 %		
	PROPANE CAS No State: Gas Type: Mixture Storage Container: Cylinder Days on Site: 365	**Cu. Feet**	**180**	**35.3**	105.9 Pressue: > Ambient Temperature: Ambient	0 Waste Code	- Physical Flammable - Physical Gas Under Pressure - Health Simple Asphyxiant - Health Hazard Not Otherwise Classified	PROPANE	99 %		74-98-6
	WELDING SHIELD GAS CAS No State: Gas Type: Mixture Storage Container: Cylinder Days on Site: 365	**Cu. Feet**	**300**	**300**	150 Pressue: > Ambient Temperature: Ambient	0 Waste Code	- Physical Gas Under Pressure	HELIUM ARGON CARBON DIOXIDE	90 % 8 % 3 %		

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **OIL STORAGE BUILDING**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	MOBIL DTE 25 HYDRAULIC OIL	**Gallons**	**110**	**55**	110	0	- Physical Flammable - Health Skin Corrosion Irritation	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	95 %		64742-54-7
	CAS No	State: Liquid	Storage Container: Steel Drum		Pressue: Ambient	Waste Code		DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	5 %		64742-65-0
		Type: Mixture	Days on Site: 365		Temperature: Ambient						
	MOBILGEAR 600 XP 220	**Gallons**	**70**	**5**	70	0	- Physical Flammable - Health Skin Corrosion Irritation				
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue: Ambient	Waste Code					
		Type: Pure	Days on Site: 365		Temperature: Ambient						
	WASTE OIL	**Gallons**	**110**	**55**	110	1000	- Physical Flammable - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Hazard Not Otherwise Classified	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY OIL			
	CAS No	State: Liquid	Storage Container: Steel Drum		Pressue: Ambient	Waste Code					
		Type: Waste	Days on Site: 365		Temperature: Ambient						
Combustible Liquid, Class II	**Air Compressor oil SL 200**	**Gallons**	**55**	**5**	55		- Physical Flammable - Health Skin Corrosion Irritation	Distallate petroleum			64742-54-7
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue: Ambient	Waste Code					
		Type: Pure	Days on Site: 365		Temperature: Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **PCM BLD**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	FM-200	**Pounds**	**485**	**182**	182	0	- Physical Hazard Not Otherwise Classified - Health Hazard Not Otherwise Classified	FM-200	99 %	✓	431890
	CAS No ✓EHS	State: Liquid	Storage Container: Cylinder		Pressue: > Ambient	Waste Code					
		Type: Mixture	Days on Site: 365		Temperature: Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **PEAKER BATTERY ROOM**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	POCKET PLATE NiCAD BATTERY	**Pounds**	**135**	**36**	135	0	- Physical Hazard Not Otherwise Classified	ELECTROLYTE SOLUTION (18-28% KOH)	29 %		1310-58-3
	CAS No	State: Liquid	Storage Container: Other		Pressue: Ambient	Waste Code	- Health Acute Toxicity	NICKEL (AS NICKEL AND NICKEL HYDROXIDE)	9 %		7440-02-0
		Type: Mixture	Days on Site: 365		Temperature: < Ambient		- Health Hazard Not Otherwise Classified	CADMIUM (AS CADMIUM AND CADMIUM HYDROXIDE)	8 %		7440-43-9
								LITHIUM HYDROXIDE	1 %		1310-66-3
								COBALT (AS COBALT HYDROXIDE)	0 %		7440-48-4

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **Peaker Cooling system**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 6.1 - Toxic Substances	**glycol**	**Gallons**	**550**	**550**	550			propylene glycol	100 %		55-57-6
Toxic	CAS No 55-57-6	State Liquid	Storage Container Other		Pressue > Ambient	Waste Code					
		Type Mixture			Temperature > Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **PLANT WIDE**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	3DT128 INHIBITOR	**Gallons**	**400**	**400**	200	0	- Health Skin	PHOSPHORIC ACID	8 %		7664-38-2
	CAS No	State: Liquid	Storage Container: Tank Inside Building		Pressue: Ambient	Waste Code	Corrosion	SUFURIC ACID	3 %	✓	7664-93-9
		Type: Mixture	Days on Site: 365		Temperature: Ambient		Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **Shop**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Compressed Air	**Cu. Feet**	**1000**	**225**	500			Compressed air			

CAS No

State: Gas
Storage Container: Cylinder
Pressue
Waste Code
Type: Pure
Temperature
Days on Site: 365

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **SPARE TRANSFORMER**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	UNIVOLT N61B TRANSFORMER OIL CAS No	**Gallons** State: Liquid Type: Pure	**9430** Storage Container: Other Days on Site: 365	**9430**	9430 Pressue: Ambient Temperature: Ambient	0 Waste Code	- Physical Hazard Not Otherwise Classified - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **STEAM TURBINE ENCLOSURE**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	MOBIL DTE 732 ST OIL	**Gallons**	**1800**	**1900**	1750	0	- Physical Hazard Not Otherwise Classified - Health Skin Corrosion Irritation				
	CAS No	State: Liquid	Storage Container: Aboveground Tank, Steel Drum		Pressue: Ambient	Waste Code					
		Type: Pure	Days on Site: 365		Temperature: Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SAC COGENERATION AUTHORITY II**
Facility Name **SAC COGENERATION AUTHORITY II**
5000 83RD ST , SACRAMENTO 95826

Chemical Location **WATER TREATMENT BUILDING**

CERS ID **10217812**
Facility ID **FA0008278**
Status **Submitted** on 3/28/2018 4:19 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	LIQUID CAUSTIC SODA, 50% CAS No	**Gallons** State: Liquid Type: Mixture	**10000** Storage Container: Tank Inside Building Days on Site: 365	**10000**	4000 Pressue: Ambient Temperature: Ambient	0 Waste Code	- Physical Corrosive To Metal - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	SODIUM HYDROXIDE WATER	50 % 50 %		1310-73-2 7732-18-5
	SODIUM SULFITE CAS No 7757-83-7	**Pounds** State: Solid Type: Pure	**1750** Storage Container: Bag Days on Site: 365	**50**	600 Pressue: Ambient Temperature: Ambient	0 Waste Code	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation				
	Sodium Bicarbonate CAS No 144-55-8	**Pounds** State: Solid Type: Pure	**200** Storage Container: Bag Days on Site: 365	**40**	150 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	sodium bicarbonate	100 %		144-55-8

SCA COGEN II EQUIPMENT OUTAGES

2018 Annual Outage Data

Gas Turbine 1A

Outage type **Forced Outage**

Off Line	On Line	Duration (hrs)	Reason
10/5/2018 11:15:00 AM	10/5/2018 4:48:00 PM	5.550	WATER CONTROL VALVE REPLACE
Total Outage Hours for Forced Outage (1 Event)		5.550	

Outage type **PSO Dispatched**

Off Line	On Line	Duration (hrs)	Reason
1/10/2018 4:25:00 AM	1/10/2018 3:59:00 PM	11.567	
1/12/2018 11:59:00 PM	1/14/2018 3:01:00 PM	39.033	
1/15/2018 12:43:00 AM	1/15/2018 9:58:00 AM	9.250	
1/19/2018 12:57:00 AM	1/19/2018 4:30:00 AM	3.550	
1/21/2018 12:31:00 AM	1/21/2018 6:59:00 AM	6.467	
1/23/2018 11:39:00 PM	1/24/2018 4:58:00 AM	5.317	
2/3/2018 1:59:00 AM	2/3/2018 3:14:00 PM	13.250	
2/3/2018 11:59:00 PM	2/4/2018 3:15:00 PM	15.267	
2/6/2018 12:30:00 AM	2/7/2018 3:32:00 PM	39.033	
2/27/2018 10:18:00 AM	2/27/2018 4:02:00 PM	5.733	
3/21/2018 11:59:00 PM	3/22/2018 7:16:00 PM	19.283	
3/23/2018 12:30:00 PM	3/23/2018 6:07:00 PM	5.617	
3/24/2018 12:05:00 AM	3/24/2018 4:30:00 AM	4.417	
3/24/2018 3:16:00 PM	3/24/2018 4:58:00 PM	1.700	
4/22/2018 1:14:00 AM	4/22/2018 2:59:00 PM	13.750	
5/15/2018 5:21:00 PM	5/16/2018 11:59:00 PM	30.633	
5/17/2018 11:55:00 AM	5/20/2018 3:59:00 PM	76.067	
5/20/2018 10:00:00 PM	5/21/2018 3:01:00 PM	17.017	
5/21/2018 8:58:00 PM	5/23/2018 12:01:00 AM	27.050	
6/2/2018 11:54:00 PM	6/3/2018 1:21:00 PM	13.450	PSO REQUEST
6/6/2018 12:04:00 AM	6/8/2018 10:58:00 AM	58.900	
6/8/2018 11:59:00 PM	6/9/2018 4:30:00 AM	4.517	

SCA COGEN II EQUIPMENT OUTAGES

2018 Annual Outage Data

6/9/2018 6:08:00 AM	6/9/2018 6:01:00 PM	11.883	
6/15/2018 11:00:00 PM	6/18/2018 2:00:00 PM	63.000	
6/19/2018 11:05:00 PM	6/21/2018 10:01:00 AM	34.933	
6/21/2018 11:01:00 PM	6/22/2018 12:00:00 PM	12.983	
6/24/2018 5:22:00 AM	6/26/2018 1:59:00 PM	56.617	
6/27/2018 10:27:00 PM	6/29/2018 11:00:00 AM	36.550	PSO REQUEST
7/1/2018 2:12:00 AM	7/1/2018 10:59:00 AM	8.783	PSO
7/29/2018 1:38:00 AM	7/29/2018 12:59:00 PM	11.350	
8/5/2018 11:28:00 PM	8/6/2018 8:58:00 AM	9.500	
8/22/2018 11:53:00 PM	8/26/2018 2:59:00 PM	87.100	PSO DISPATCH
8/27/2018 1:25:00 AM	8/27/2018 3:59:00 PM	14.567	PSO DISPATCH
8/29/2018 11:50:00 PM	8/30/2018 5:00:00 PM	17.167	PSO DISPATCH
9/1/2018 11:59:00 PM	9/2/2018 12:01:00 PM	12.033	
9/4/2018 2:07:00 AM	9/4/2018 8:59:00 AM	6.867	
9/5/2018 11:59:00 PM	9/6/2018 8:26:00 PM	20.450	
9/9/2018 1:00:00 AM	9/9/2018 11:58:00 AM	10.967	
9/16/2018 12:40:00 AM	9/16/2018 4:30:00 AM	3.833	
9/23/2018 2:03:00 AM	9/25/2018 12:00:00 PM	57.950	
9/28/2018 2:08:00 AM	9/30/2018 1:51:00 PM	59.717	
10/13/2018 1:00:00 AM	10/13/2018 4:30:00 AM	3.500	
10/20/2018 1:57:00 AM	10/21/2018 1:01:00 AM	23.067	PSO REQUEST
11/17/2018 1:55:00 AM	11/17/2018 4:30:00 AM	2.583	
12/6/2018 1:02:00 AM	12/6/2018 4:30:00 AM	3.467	
12/14/2018 11:59:00 PM	12/15/2018 7:26:00 PM	19.450	PSO REQUEST
Total Outage Hours for PSO Dispatched (46 Events)		1,009.183	

Outage type **Scheduled Outage**

Off Line	On Line	Duration (hrs)	Reason
1/19/2018 4:30:00 AM	1/20/2018 6:18:00 PM	37.800	ENGINE CHANGE OUT
1/20/2018 9:56:00 PM	1/21/2018 12:31:00 AM	2.583	REPAIR HRSG 1A DOOR
2/24/2018 4:30:00 AM	2/24/2018 3:01:00 PM	10.517	MONTHLY OUTAGE

SCA COGEN II EQUIPMENT OUTAGES

2018 Annual Outage Data

3/24/2018 4:30:00 AM	3/24/2018 3:15:00 PM	10.750	OFF-LINE WATER WASH
4/6/2018 12:04:00 AM	4/7/2018 2:09:00 PM	38.083	SPRING OUTAGE
4/7/2018 5:04:00 PM	4/8/2018 11:37:00 AM	18.550	S.T. ROTOR BALANCING
4/8/2018 2:30:00 PM	4/13/2018 2:22:00 PM	119.867	SPRING OUTAGE
5/23/2018 12:01:00 AM	5/25/2018 3:00:00 PM	62.983	
6/9/2018 4:30:00 AM	6/9/2018 6:08:00 AM	1.633	MONTHLY OUTAGE WATER WASH
7/10/2018 12:01:00 AM	7/11/2018 3:46:00 PM	39.750	ENGINE CHANGE OUT OUTAGE
7/11/2018 3:51:00 PM	7/11/2018 7:29:00 PM	3.633	TRIPPED ON CT L/O LEAK
7/11/2018 7:38:00 PM	7/11/2018 9:10:00 PM	1.533	›PED ON VBV EXCESS POSITION ERI
7/11/2018 10:07:00 PM	7/12/2018 1:11:00 AM	3.067	SHUT DOWN DUE TO GEN. L/O LEAK
7/13/2018 6:59:00 AM	7/13/2018 3:11:00 PM	8.200	CHANGE FUEL NOZZLES
7/13/2018 3:58:00 PM	7/13/2018 10:08:00 PM	6.167	CHANGE FUEL NOZZLES
7/25/2018 6:00:00 AM	7/28/2018 11:28:00 AM	77.467	REPLACE COMBUSTOR
9/16/2018 4:31:00 AM	9/16/2018 4:03:00 PM	11.533	
10/13/2018 4:30:00 AM	10/15/2018 2:53:00 PM	58.383	FALL OUTAGE
11/17/2018 4:30:00 AM	11/17/2018 11:59:00 AM	7.483	
12/6/2018 4:30:00 AM	12/6/2018 5:56:00 PM	13.433	OUTAGE
Total Outage Hours for Scheduled Outage (20 Events)		533.417	
Total Outage Hours for Gas Turbine 1A (67 Events)		1,548.150	

SCA COGEN II EQUIPMENT OUTAGES

2018 Annual Outage Data

Gas Turbine 1B

Outage type **Forced Outage**

Off Line	On Line	Duration (hrs)	Reason
3/26/2018 4:40:00 AM	3/26/2018 10:11:00 AM	5.517	FAILED TO LIGHT
3/30/2018 2:58:00 PM	3/30/2018 4:45:00 PM	1.783	VIBRATION TROUBLESHOOT.
Total Outage Hours for Forced Outage (2 Events)		7.300	

Outage type **PSO Dispatched**

Off Line	On Line	Duration (hrs)	Reason
1/21/2018 11:59:00 PM	1/22/2018 4:30:00 AM	4.517	
2/4/2018 11:23:00 PM	2/5/2018 5:00:00 AM	5.617	
2/7/2018 11:00:00 PM	2/8/2018 3:00:00 PM	16.000	
2/9/2018 11:59:00 PM	2/10/2018 3:00:00 PM	15.017	
2/10/2018 11:59:00 PM	2/11/2018 3:00:00 PM	15.017	
2/16/2018 11:59:00 PM	2/17/2018 3:59:00 PM	16.000	
3/13/2018 11:48:00 PM	3/14/2018 1:22:00 PM	13.567	
3/23/2018 12:07:00 AM	3/23/2018 5:00:00 AM	4.883	
3/24/2018 11:30:00 PM	3/25/2018 4:30:00 AM	5.000	
3/25/2018 11:50:00 AM	3/25/2018 5:22:00 PM	5.533	
3/25/2018 11:30:00 PM	3/26/2018 4:40:00 AM	5.167	
3/26/2018 1:52:00 PM	3/28/2018 7:00:00 AM	41.133	
3/28/2018 11:58:00 PM	3/30/2018 2:58:00 PM	39.000	
3/30/2018 4:45:00 PM	3/30/2018 5:31:00 PM	0.767	
3/31/2018 2:00:00 AM	3/31/2018 10:30:00 AM	8.500	
4/13/2018 4:52:00 PM	4/16/2018 4:00:00 AM	59.133	
4/16/2018 9:13:00 AM	4/18/2018 10:00:00 PM	60.783	
4/23/2018 12:39:00 AM	4/23/2018 12:33:00 PM	11.900	
4/26/2018 12:07:00 PM	4/27/2018 5:00:00 AM	16.883	
4/29/2018 7:00:00 AM	4/29/2018 5:58:00 PM	10.967	
5/4/2018 4:00:00 AM	5/4/2018 4:00:00 PM	12.000	

SCA COGEN II EQUIPMENT OUTAGES

2018 Annual Outage Data

5/6/2018 12:19:00 AM	5/7/2018 5:00:00 AM	28.683	
5/7/2018 11:59:00 PM	5/8/2018 12:58:00 PM	12.983	
5/10/2018 12:09:00 AM	5/12/2018 11:59:00 PM	71.833	
5/13/2018 7:23:00 AM	5/15/2018 5:00:00 AM	45.617	
5/25/2018 5:59:00 PM	5/27/2018 1:41:00 AM	31.700	
5/29/2018 8:58:00 AM	5/29/2018 4:36:00 PM	7.633	
5/29/2018 11:07:00 PM	5/31/2018 11:59:00 PM	48.867	
6/1/2018	6/2/2018 3:00:00 PM	39.000	PSO REQUEST
6/4/2018 12:06:00 AM	6/5/2018 1:31:00 AM	25.417	PSO REQUEST
6/18/2018 11:59:00 PM	6/19/2018 3:02:00 PM	15.050	
6/22/2018 11:10:00 PM	6/23/2018 11:01:00 AM	11.850	
6/27/2018 2:59:00 AM	6/27/2018 12:57:00 PM	9.967	
6/30/2018 1:04:00 AM	6/30/2018 11:00:00 AM	9.933	
7/2/2018	7/5/2018 3:58:00 PM	87.967	
7/16/2018 11:59:00 PM	7/17/2018 9:59:00 AM	10.000	
7/18/2018 1:39:00 AM	7/18/2018 12:06:00 PM	10.450	
7/19/2018 3:12:00 AM	7/19/2018 10:52:00 AM	7.667	
7/20/2018 1:11:00 AM	7/20/2018 10:02:00 AM	8.850	
7/21/2018 1:03:00 AM	7/21/2018 4:30:00 AM	3.450	
7/21/2018 8:03:00 AM	7/22/2018 12:03:00 PM	28.000	
8/29/2018 3:00:00 AM	8/29/2018 1:30:00 PM	10.500	PSO DISPATCH
8/30/2018 11:29:00 PM	8/31/2018 11:59:00 PM	24.500	END OF MONTH CLOSE OUT
9/1/2018	9/1/2018 2:00:00 PM	14.000	
9/3/2018 2:20:00 AM	9/3/2018 12:00:00 PM	9.667	
9/5/2018 1:00:00 AM	9/5/2018 12:06:00 PM	11.100	
9/8/2018 2:00:00 AM	9/8/2018 10:58:00 AM	8.967	
9/10/2018 1:00:00 AM	9/10/2018 11:48:00 AM	10.800	
9/11/2018 1:00:00 AM	9/11/2018 12:00:00 PM	11.000	
9/21/2018	9/22/2018 2:00:00 PM	38.000	PSO DISPATCH
9/27/2018 2:29:00 AM	9/27/2018 11:28:00 AM	8.983	
10/7/2018 2:00:00 AM	10/8/2018 6:58:00 AM	28.967	

SCA COGEN II EQUIPMENT OUTAGES

2018 Annual Outage Data

10/11/2018 11:59:00 PM	10/12/2018 4:30:00 AM	4.517
11/18/2018 2:56:00 AM	11/18/2018 4:30:00 AM	1.567
12/10/2018 12:58:00 AM	12/10/2018 4:30:00 AM	3.533
Total Outage Hours for PSO Dispatched (55 Events)		1,068.400

Outage type **Scheduled Outage**

Off Line	On Line	Duration (hrs)	Reason
1/22/2018 4:30:00 AM	1/22/2018 4:09:00 PM	11.650	MONTHLY OUTAGE
1/22/2018 4:39:00 PM	1/22/2018 6:47:00 PM	2.133	REPAIR NOX WATER FLOW
2/15/2018 2:06:00 PM	2/15/2018 5:03:00 PM	2.950	TROUBLESHOOT MCC-212 GROUND
2/25/2018 4:30:00 AM	2/25/2018 5:02:00 PM	12.533	MONTHLY OUTAGE
3/25/2018 4:30:00 AM	3/25/2018 11:49:00 AM	7.317	MONTHLY OUTAGE
4/2/2018	4/12/2018 6:14:00 PM	258.233	SPRING OUTAGE
6/10/2018 12:01:00 AM	6/15/2018 7:16:00 AM	127.250	OFF-LINE WATER WASH
7/21/2018 4:31:00 AM	7/21/2018 8:02:00 AM	3.517	UNIT OFF-LINE WATER WASH.
9/15/2018 12:01:00 AM	9/15/2018 4:05:00 PM	16.067	
10/12/2018 4:30:00 AM	10/17/2018 8:47:00 AM	124.283	FALL OUTAGE
11/2/2018 9:00:00 AM	11/2/2018 10:07:00 AM	1.117	RESET DCIS CARD
11/19/2018 4:30:00 AM	11/19/2018 12:49:00 PM	8.317	
12/10/2018 4:30:00 AM	12/10/2018 9:19:00 PM	16.817	REPLACE STG-5 VSV BUSHINGS
Total Outage Hours for Scheduled Outage (13 Events)		592.183	
Total Outage Hours for Gas Turbine 1B (70 Events)		1,667.883	

SCA COGEN II EQUIPMENT OUTAGES

2018 Annual Outage Data

Steam Turbine

Outage type **Forced Outage**

Off Line	On Line	Duration (hrs)	Reason
4/2/2018 11:41:00 AM	4/2/2018 12:44:00 PM	1.050	AB-1A TRIPPED BY RF MCDONALD
7/1/2018 6:02:00 AM	7/1/2018 7:25:00 AM	1.383	TRIPPED - UPS INVERTER FAULT
Total Outage Hours for Forced Outage (2 Events)		2.433	

Outage type **PSO Dispatched**

Off Line	On Line	Duration (hrs)	Reason
10/13/2018 12:02:00 AM	10/13/2018 4:00:00 AM	3.967	
Total Outage Hours for PSO Dispatched (1 Event)		3.967	

Outage type **Scheduled Outage**

Off Line	On Line	Duration (hrs)	Reason
4/5/2018 12:01:00 AM	4/8/2018 1:23:00 PM	85.367	SPRING OUTAGE
4/8/2018 2:08:00 PM	4/12/2018 8:43:00 PM	102.583	SPRING OUTAGE
10/13/2018 4:00:00 AM	10/15/2018 5:19:00 PM	61.317	FALL OUTAGE
10/15/2018 5:19:00 PM	10/15/2018 5:21:00 PM	0.033	TRIPPED ON REVERSE POWER
Total Outage Hours for Scheduled Outage (4 Events)		249.300	

Total Outage Hours for Steam Turbine (7 Events)		255.700	

PROCTER AND GAMBLE COGENERATION PROJECT
CONDITIONS OF CERTIFICATION

NO.	CONDITION DESCRIPTION AND VERIFICATION	RP	AGENCY/ DUE DATE	SUBMITTAL DATE/NO	APPROVAL DATE	STATUS	COMMENTS
AIR QUALITY							
AQ-1	Facilities Operation – Maintain all equipment, facilities and systems in good working order to comply with emissions regulations.	SC	Refer to AQ-2	N/A	N/A	N/A	
AQ-2	Malfunction – Notify SMAQMD when emissions exceed allowable limits or monitoring equipment breaks down.	SC	SMAQMD, CEC Report as required	N/A	N/A	N/A	Copies of breakdown reports submitted as req'd
AQ-3	Right of entry – Allow SMAQMD reps to enter premises, access records, inspects equipment and sample emissions.	SC	CEC Letter required 30 days before turbine roll.	16 Aug 96 SCA 96-219	N/A	5	
AQ-4	Public Nuisance – Prevent air contaminants, which cause a public nuisance.	SC	Refer to AQ-2	N/A	N/A	N/A	
AQ-5	Prevent any visible air contaminant other than water vapor with 20% opacity for more than 3 minutes in any 1-hour.	SC	Refer to AQ-2	N/A	N/A	N/A	
AQ-6	Use only natural gas fuel for combustion turbines, duct burners and auxiliary boiler.	SC	Record per AQ-32	N/A	N/A	N/A	
AQ-7	Provide stack sampling ports and platforms.	WC	Refer to AQ-3	N/A		5	
AQ-8	Provide appropriate record format in compliance with listed permit conditions.	WC	SMAQMD Record format approval 60 days before start up.	27 Mar 96 (fax)		5	
AQ-9	Severability – Invalidation of any provision of conditions does not affect remaining conditions.	N/A	N/A	N/A	N/A	N/A	
AQ-10	Emissions shall not exceed listed limits on a pound per hour basis.	SC	SMAQMD Record per AQ-32	N/A	N/A	2	Record keeping in progress.
AQ-11	Emissions shall not exceed listed limits on a pound per calendar day basis.	SC	Record per AQ-32	N/A	N/A	2	Record keeping in progress.
AQ-12	Emissions shall not exceed listed limits on a quarterly basis.	SC	Record per AQ-32	N/A	N/A	2	Record keeping in progress.
AQ-13	Emissions from combined cycle combustion turbines and duct burners shall not exceed listed limit for nitrogen oxide.	SC/WC	Record per AQ-32	N/A	N/A	2	Record keeping in progress.

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CONDITIONS OF CERTIFICATION

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AQ-14	Emission from simple cycle combustion turbine shall not exceed listed limit for nitrogen oxide.	SC/WC	Record per AQ-32	N/A	N/A	2	Record keeping in progress
AQ-15	Emission from auxiliary boiler shall not exceed listed limit for nitrogen oxide.	SC/WC	Record per AQ-32	N/A	N/A	2	Record keeping in progress
AQ-16	Emission from auxiliary boiler shall not exceed listed limit for nitrogen oxide.	SC/WC	Record per AQ-32	N/A	N/A	2	Record keeping in progress.
AQ-17	Emission form combined cycle combustion turbines and duct burners shall not exceed listed limit for ammonia.	SC/WC	Record per AQ-32	N/A	N/A	2	Record keeping in progress.
AQ-18	Emission from simple cycle combustion turbine shall not exceed limit for ammonia	SC/WC	Record per AQ-32	N/A	N/A	N/A	Record keeping in progress
AQ-19	Emission for auxiliary boiler shall not exceed listed limit for ammonia.	SC/WC	Record per AQ-32	N/A	N/A	N/A	Amendment (SCA 95-180, 9 Nov 95) approved.
AQ-20	HRSG Duct Burner shall not be operated separate from combustion turbine and SCR.	SC	Record per AQ-32	N/A	N/A	N/A	
AQ-21	Combined cycle combustion turbine shall not be operated separate from SCR and oxidizing catalyst system.	SC	Record per AQ-32	N/A	N/A	2	
AQ-22	Combined cycle combustion turbine start-up period shall not exceed 60 minutes.	SC/WC	Record per AQ-32	N/A	N/A	2	
AQ-23	Simple cycle combustion turbine shall not operate without SCR and oxidizing catalyst system.	SC	Record per AQ-32	N/A	N/A	N/A	
AQ-24	Simple cycle combustion turbine start-up period shall not exceed 30 minutes.	SC/WC	Record per AQ-32	N/A	N/A	N/A	
AQ-25	Auxiliary boilers shall not operate without SCR.	SC	N/A	N/A	N/A	N/A	Amendment (SCA 95-180 9 Nov 95) approved.
AQ-26	Auxiliary boiler shall not exceed listed capacity limit.	SC	Record per AQ-32	N/A	N/A	2	Record keeping in progress
AQ-27	Cooling tower water treatment chemicals shall not contain chromium.	SC	Record per AQ-32	28 Jan 98	N/A	5	
AQ-28	Cooling tower water shall not exceed 2000 PPMW total dissolved solids.	SC	Record per AQ-32	N/A	N/A	2	

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CONDITIONS OF CERTIFICATION

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AQ-29	Cooling towers drift rate shall not exceed 0.0006%. Owner shall provide Manufacturer's Statement meeting these criteria.	WC	CEC 30 days before installation	17 Jul 95 J/CEC20 12 Jan 98 CA 98-003	N/A	5	
AQ-30	Provide written notice of: A - Start of construction date (30 days after) B - Anticipated initial start-up date (60 days before) C - Actual start-up date (15 days after) D - Changes which increase emissions (60 days before) E - Continuous monitoring system on site demonstration date (30 days before)	WC	SMAQMD, CEC as required for each item.	17 Jul 95 J/CEC-019 21 Jul 95 J/CEC-056 20 Jan 97 J/SMAQ-10 12 Jan 96 SCA 98-003	N/A	A-5 B-5 C-5 D-N/A E-5	Construction notice to SMAQMD. Start-up notice to SMAQMD. RATA and source test notification 12/11/96.
AQ-31	Conduct performance test as required. Provide notice of performance test to APCD Officer.	WC	SMAQMD, CEC No later than 60 days after reaching max output.	11 Dec 96	N/A	5	
AQ-32	Maintain records as required for 2-year period. Report excess emissions quarterly to APCD Office	SC	SMAQMD, CEC 30 days after end of quarter	Qrtrly	N/A	2	Record keeping in progress.
AQ-33	Install approved "in stack" continuous emission monitoring systems as required.	WC	SMAQMD Submit equip for approval 60 days before purchase. CEC Advise that equip is installed before start-up	31 Aug 95 SMAQ-002 28 Nov 95 001 27 Feb 97 J/CEC-073		5	
AQ-34	Install approved continuous monitoring system for fuel consumption at combustion turbines and duct burners.	WC	SMAQMD Submit equip for approval 60 days before purchase. CEC Advise that equip is installed before start-up	31 Aug 95 SMAQ-002 28 Nov 95 001 27 Feb 97 J/CEC-073		5	Meters certified annually

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PROCTER AND GAMBLE COGENERATION PROJECT CONDITIONS OF CERTIFICATION							
NO.	CONDITION DESCRIPTION AND VERIFICATION	RP	AGENCY/ DUE DATE	SUBMITTAL DATE/NO	APPROVAL DATE	STATUS	COMMENTS
AQ-35	Install approved continuous monitoring system for fuel consumption at auxiliary boiler.	WC	SMAQMD Submit equip for approval 60 days before purchase. CEC Advise that equip is installed before start-up	31 Aug 95 SMAQ-002 28 Nov 95 001		5	Meter certified annually
AQ-36	Install approved continuous monitoring system for conductivity of circulating cooling water.	WC	SMAQMD Submit equip for approval 60 days before purchase.	10 May 96 SMAQ-005	18 Jul 96	5	
AQ-37	Install approved continuous monitoring system for exhaust gas flow in exhaust stacks.	WC	SMAQMD Submit equip for approval 60 days before purchase.	31 Aug 95 SMAQ-002 28 Nov 95 001		5	
AQ-38	Prepare source test plan and conduct compliance testing for chemical compounds as listed.	WC	SMAQMD, CEC Plan – 30 days before test Results – 30 days after test	4 Dec 96 SMAQ-009 24 Apr 97		5	Source test plan submitted. Compliance testing is scheduled in qtr 1 each year
AQ-39	Prepare source test plan and conduct testing annually for chemical compounds as listed	SC/WC	SMAQMD, CEC Plan – 30 days before test Results – 60 days after test	Completed Annually		WC-5 SC-2	Source test plan submitted. Compliance testing is scheduled in qtr 1 each year
AQ-40	Provide emission reduction credit certificates and calculations as required.	SC	Refer to AQ-42	9 Jul 95 SCA 95-083	N/A	5	
AQ-41	Submit copies of SMAQMD banking certificated as required.	SC	CEC 45 days before start-up	6 Aug 96 SCA 96-214	N/A	5	
AQ-42	Submit copies of SMAQMD banking certificated as required.	SC	CEC 45 days before start-up	6 Aug 96 SCA 96-214	N/A	5	Certificates surrendered for peaking unit
AQ-43	Submit copies of SMAQMD banking certificated as required.	SC	CEC 45 days before start-up	6 Aug 96 SCA 96-214	N/A	5	Certificates surrendered for Peaking unit
AQ-44						N/A	DELETED

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PROCTER AND GAMBLE COGENERATION PROJECT
CONDITIONS OF CERTIFICATION

NO.	CONDITION DESCRIPTION AND VERIFICATION	RP	AGENCY/ DUE DATE	SUBMITTAL DATE/NO	APPROVAL DATE	STATUS	COMMENTS
AQ-45	Obtain approval of design and operational parameters of emission control systems as required.	WC	CEC 120 days before construction	24 Feb 95 MISC-021	18 Apr 95	5	
AQ-46	Obtain SMAQMD permit to operate.	SC	CEC 180 days after commercial op	8 Sep 97 SCA 97-065		5	Current Permits to Operate issued Aug 11 2011. Renewed annually
AQ-47	Include measures to mitigate fugitive dust in grading and erosion control plan.	WC	CEC Submit plan 60 days before construction.	14 Jun 95 J/CEC-007	N/A	5	
AQ-48	Minimize vehicle emissions as required.	SC/WC	Record per AQ-48	N/A	N/A	5	Use of diesel driven construction equipment concluded.
AQ-49	Surrender emission reduction credits to SMAQMD as required.	SC	CEC 30 days after amendment request			5	Amendment Pending for New Aux boliler
AQ-50	As each turbine is upgraded owner /operator shall engage in a period of commissioning as defined in this condition.	SC	CEC 10 days prior to commissioning, 60 days after commissioning	4/2/09		5	Pre and post upgrade reports submitted for all units
AQ-51	Within 60 days of completion of each turbine's upgrade a Source test and CEMs accuracy test shall be performed	SC	CEC 30 days prior to testing, 60 days after testing	5/12/09		5	Post upgrade testing performed on all units
BIOLOGICAL RESOURCES							
CULTURAL RESOURCES							
EFFICIENCY CONFORMANCE							
BIO-1	Submit to CEC: -Name and qualification of designated biologist	WC (site) SC (T/L)	CEC 60 days before ground disturbance.	15 Mar 95 MISC-039 SCA 95-001	18 Apr 95	WC-5 SC-5	D. Martin
BIO-2	Biologist must: -Advise supervising construction -Supervise or conduct mitigation	WC (site) SC (T/L)	CEC Monthly	N/A	N/A	WC-5 SC-5	Biological monitoring no longer required.
BIO-3	Act on biologist's advice to ensure conformance.	WC (site) SC (T/L)	CEC within one day of non-compliance		N/A	5	

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PROCTER AND GAMBLE COGENERATION PROJECT
CONDITIONS OF CERTIFICATION

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BIO-4	Submit to CEC: -Program for employee awareness of biological resource sensitivities.	WC (site) SC (T/L)	CEC 30 days before construction.	7 Mar 95 SCA 95-061 8 Jun 95 J/CEC-006	6 Sep 95	5	
BIO-5	Submit to CEC: -Biological resources mitigation implementation and monitoring plan (bio-plan).	WC (site) SC (T/L)	CEC 60 days before operations.	1 Mar 95 SCA 95-023 15 Jun 95 J/CEC-014	6 Sep 95	WC-5 SC-5	
BIO-6	Provide Non-refundable $100,000 for mitigation of impacts.	SC	CEC 60 days after CEC decision.	2 Jun 95 SCA 95-079	N/A	5	
BIO-7	Submit to CEC: -Aerial photo of site or methodology to assess extent of disturbance. Provide written analysis of mitigation required.	SC/WC	CEC 90 days before construction. 180 days after completion.	1 Jun 95 SCA 95-134 14 Jun 95 J/CEC-011 22 Nov 95 SCA 95-182 15 Jan 96 SCA 96-003 31 Oct 96 SCA 96-275 21 Mar 97 J/CEC-075	8 Sep 95 3 Oct 95 17 Jan 96 25 Nov 96	5	
BIO-8	Comply with Federal Endangered Species Act requirements: -Regarding “Take” of Fairy Shrimp	SC	CEC Submit permit within 10 days of receipt.	27 Sept 95 SCA 95-179	N/A	5	
CUL-1	Submit to CEC: -Name of project cultural resource specialist.	SC, WC	CEC Before construction.	15 Mar 95 MISC-037 4 Jan 95 SCA 95-001	18 Apr 95	5	C. Kristina Roper

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CUL-2	Submit to California Energy Commission: -Description of instructions and procedures for employees to recognize and report cultural resources.	SC, WC	CEC 30 days before construction.	8 Jun 95 J/CEC-006 7 Mar 95 SPA 95-061	6 Sep 95 (SCA)	5	
CUL-3	Cultural Specialist to be prepared to monitor.	SC/WC	CEC Before construction.	14 Jun 95 J/CEC-012 31 Aug 95 SCA 95-166	N/A	5	
EFF-1	Maintain monthly records of: -Fuel consumption -Electrical energy produced	SC	CEC Annually		N/A	2	Record keeping in progress. Efficiency calcs submitted in ACR
FACILITY DESIGN							
GEOLOGY RESOURCES							
HAZARDOUS MATERIAL HANDLING							
FDG-1	Submit to City Building Department: -Schedule of Structural Plan Submittal -Drawing List -Specification List	WC	CEC, CBO 60 days before construction.	30 Oct 95 WC/J-027	N/A	5	
FDG-2	Make payments to CBO for plan review and permits. Submit copies of permits with monthly compliance report.	WC	CEC 30 days after payment.	27 Mar 97 WC-J/CEC-078	N/A	5	
FDC-3	Submit to City Building Department: -Names of Resident Construction Engineers Civil Engineer, Civil Engineer (Soils), Structural Engineer (CA) and Mechanical Engineer	WC	CEC, CBO 14 days before construction.	12 Dec 94 MISC-008 25 Apr 95 CEC-046 31 May 95 CEC-005		5	R. Raymaker (C-053578) J. Johnson (M-029604) J. Toccalino (C-35568) N. Lee (C-34968)
FDG-4	Submit to CBO for review and with copy of CEC name(s) and qualifications certified special inspector(s).	WC	CEC, CBO 14 days before special activity.	28 Sept 95 SCA Itr-019 22 Mar 96 SCA-045		5	

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FDE-5	Assign to project a responsible electrical engineer, registered in CA, responsible for electric design of project.	BV, SC	CEC, CBO 14 days before electrical drawing submittals.	12 Dec 94 MISC-008 31 Jul 95 SCA 95-128		5	M. Brase (E-15024) E. Franciosa (E-13383)
FDC-6	Submit to City Building Department: -Drainage, Grading Plan -Sediment Control Plan -Related Calcs and Specs	WC	CBO 14 days before construction.	11 Apr 95	12 Jun 95	5	
FDC-7	When geologist identifies unforeseen adverse geologic conditions: -Prepare and submit modified plans based on new conditions. -Obtain CBO approval before resuming work.	WC	CEC 5 days after CBO approval.			N/A	Excavation complete. No adverse geologic conditions found.
FDG-8	Submit to City Building Department: -Plans, Specs, Calcs and QA/QC procedure for initial construction activity.	WC	CBO 30 days before construction.			5	
FDC-9	All plant site grading is subject to inspection. Transmit non-conformance report (NCR) and proposed correction action to SCO & CEC CPM.	WC	CBO, CEC CPM 5 days after occurrence.	6 Nov 95 J/SMUD-006		5	Site grading complete.
FDC-10	After completion of finish grading, submit to CBO responsible civil engineer's signed statement that: -Installation of facilities and all erosion control measures were completed in accordance with final approved combined grading plan. -Facilities are adequate for intended function.	WC	CBO, CEC CPM 30 days after final grading.	25 Mar 97 WC-J/CEC-076	N/A	5	
FDS-11	Submit to City Building Department: -Design and drawing for foundations, structures tank.	SC/WC	CEC, CBO 30 days before construction.	19 Sep 95 SCA 95-173	2 Nov 95 (WC) 24 Oct 95 (SCA)	WC-5 SC-5	
FDG-12	Obtain CBO approval of completed work. Submit marked-up "as-built" drawing for construction CBO.	SC	CBO, CEC CPM 15 days after completion.			5	

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FDS-13	Submit to CBO: -Concrete cylinder strength test reports -Concrete pour sign-off sheets -Field weld inspection reports -Reports covering other structure activities requiring special inspections.	WC	CBO monthly 5 days after discrepancy for NCR.	22 Nov 95 J/SCA-036 17 Nov 95 J/SCA-034 8 Jan 97 J/SCA-231 28 Jan 97 J/SCA-232		5	
FDM-14	Submit to CBO for review and approval proposed final design drawings specifications, calculations and QC procedures for plant piping system.	WC	CBO 30 days before construction.			5	
FDM-15	For all pressure vessels, submit code certification papers and other documents required.	WC	CBO 30 days before installation.	20 Sep 96 CEC-061 21 Feb 97 CEC-071		5	Annual pressure vesels inspections performed
FDM-16	Before construction, submit to CBO HVAC and refrigeration calculations, plans and specs.	WC	CBO 30 days before installation.			5	
FDM-17	Submit for approval: -All plumbing systems -Building energy -Potable water systems -Temperature Control -Drainage systems -Water & Sewer -Toilet rooms	WC	CBO 30 days before construction of each increment.			5	
FDS-18	Submit to CBO design changes to final plans required by UBC 303.	WC	CBO 15 days before filing change.			5	Design changes incorporated in building permits.
FDE-19	Submit to City Building Department plans for the 13.8 kv and lower systems: -CBO statement verifying approval of installation.	WC	CBO before construction CEC 30 days before turbine roll.			5	

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FDE-20	Submit to CBO for review and approval: -Final plant design plans-Electrical -Final plant calculations -Signed statement by registered electrical engineer	WC	CEC 30 days before electrical installation.	30 Nov 95 J/CEC-034		5	Registered Elect, Engineer statement of conformance.
FDG-21	Keep CBO informed regarding status of construction. Submit weekly construction progress report to CBO.	SC	CBO weekly	8 Nov 95 J/SMUD-007 25 Apr 96 J/SMUD-008		5	
FDG-22	Provide CEC CPM with copy of Permit to Occupy.	WC	CEC 30 days before commercial operation.	25 Mar 97 J/CEC-077		5	
GEO-1	Submit to CEC: -Name of Project Geologist (California)	WC	CEC 30 days before construction.	12 Dec 94 MISC-009	7 Feb 95	5	John D. Mattey CEG 1236 Youngdahl & Assoc.
GEO-2	Engineering Geologist to: -Prepare Engineering Geology Report 10 days after grading permit application. -Monitor geologic conditions during construction. -Prepare Final Geologic Report 90 days after final grading.	WC	CEC as required for each item	8 Aug 95 WC/J-022 28 Feb 97 WC/J-072	N/A	5	
HAZ-1	List hazardous materials used in Reportable Quantities.	SC	CEC Annual Compliance Report.			N/A	Report submitted annually
HAZ-2	Construct spill containment structure. Provide design drawings and specifications for spill containment structures.	WC	CEC 60 days before construction of spill containment structure.	10 Nov 95 J/CEC-030	14 Dec 95	5	
HAZ-3	Prepare Safety Management Plan (Safety Plan)	SC, WC	CEC 60 days before operation.	31 Oct 96 WC-J/COS-02 2 Jan 97 SCA 97-001 4 Mar 97 SPA 97-017	6 Mar 97	WC-5 SC-5	

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PROCTER AND GAMBLE COGENERATION PROJECT
CONDITIONS OF CERTIFICATION

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HAZ-4	Prepare Emergency Response Plan (Response Plan)	SC	CEC 60 days before operation.	25 Nov 96 SCA 96-283	6 Jan 97	5	
HAZ-5	Prepare Business Plan & Risk Management Prevention Plan.	SC, WC	CEC 90 days before operation.	31 Oct 96 WC-J/COS-02 21 Nov 96 SCA 96-282 25 Nov 96 SCA 96-283 23 Jan 97 SCA 97-006	3 Mar 97	5	RMP filed, review & approval complete. Business plan updated and resubmitted annually
HAZ-6	Include in Safety Plan: -Copy of spill containment safety for HCl	SC	CEC Before delivery of HCl.			N/A	
HAZ-7	Develop and maintain hydrazine, delivery, handling and storage safety plan.	WC	CEC 60 days before delivery.	6 Sep 96	27 Sep 96	5	
LAND USE							
NOISE							
LAND USE-1	Submit to CEC: -Drawing showing permanent parking, building setback and landscape details.	WC	CEC 60 days before construction.	10 Nov 95 J/CEC-031	N/A	5	
NOISE-1	Publish in local newspaper(s): -Telephone number for public use to report undesirable noise from construction operations.	WC	CEC 10 days before construction.	14 Jun 95 J/CEC-010	N/A	5	
NOISE-2	File copy of Noise Complaint Resolution Form.	SC, WC	Sac. Planning Dep/CEC 30 days after receipt of complaint.	6 Dec 96 J/CEC-066 23 Jan 97 J/CEC-069	N/A	WC-5 WC-5	No Noise complaints filed in 2008
NOISE-3	Include Noise Control Program in Project Safety Program.	WC	CEC 30 days before construction.	20 Mar 95 MISC-040	18 Apr 95	5	
NOISE-4	Condition: -Conduct 24-hour community noise survey.	WC	Sac. Planning Dep/CEC 30 days after full load.	21 Mar 97 J/CEC-021	N/A	5	

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PROCTER AND GAMBLE COGENERATION PROJECT
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NOISE-5	Conduct occupational noise survey to identify noise hazardous areas.	WC	CEC 30 days after survey.	21 Mar 97 J/CEC-074 1 Dec 97 SCA 97-078 26 Jan 98 SCA 98-005		5	
NOISE-6	Insure that design, construction and installation phases comply with local Noise Ordinances.	WC	Sac Planning Dep/CEC After mitigation measures are completed.	17 Sep 96 CEC-058	N/A	5	
NOISE-7	Alert area residents within one-mile radius before start of steam blow activities. Advise CEC that notice has been given.	WC	CEC 5 days before steam blow.	17 Sep 96 CEC-059	N/A	5	Notice published 8 Nov 96, steam blow completed 24 Nov 96.
PLANT RELIABILITY							
PAL-1	Submit to CEC: -Name of Project Paleontology Resource Specialist	SC, WC	CEC 90 days before construction.	15 Mar 95 MISC-038 28 Aug 95 SCA 95-161	18 Apr 95 12 Sep 95	5	D. Lawler (SCA)
PAL-2	Submit to CEC: -Description of instructions and procedures for employees to recognize paleontology resources.	SC, WC	CEC 30 days before construction.	8 Jun 95 J/CEC-006 7 Mar 95 SCA 95-061	6 Sep 95 (SCA)	5	
PAL-3	PAL Specialist to be available.	SC, WC	CEC 30 days before construction	14 Jun 95 J/CEC-013 31 Aug 95 SCA 95-166	N/A	5	
REL-1	Maintain monthly plant reliability and maintenance data.	SC	CEC Annually		N/A	2	Record keeping in progress. Calcs provided in ACR
SAFETY AND FIRE PROTECTION							

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CONDITIONS OF CERTIFICATION

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SAFETY-1	Submit to CAL/OSHA & CEC: -Project Construction Safety and Health Program.	SC, WC	CEC 30 days before construction/operation.	20 Mar 95 MISC-041 2 Jan 97 SCA 97-001 30 Jan 97 SCA 97-009	16 Jan 97 6 Mar 97	WC-5 SC-5	
SAFETY-2	Submit to Sac. City Fire Dept. and CEC: -Project Fire Plan.	SC, WC	CEC 30 days before building construction/operation.	13 Jan 95 MISC-013 31 Oct 96 SCA 96-274 5 Dec 96 SCA 96-288 3 Mar 97 SCA 97-021 4 Aug 97 SCA 97-059 1 Sep 97 SCA 97-062	4 Aug 97	WC-5 SC-5	Construction Plan Complete Operations Plan pending City Fire Department approval.
SAFETY-3	Submit to Sac. City Fire Dept.: -Emergency Action Plan	SC, WC	CEC 30 days before construction/operation.	13 Jan 96 MISC-013 31 Oct 96 SCA 96-274 5 Dec 96 SCA 96-288 3 Mar 97	4 Aug 97	WC-5 SC-5	Construction Plan Complete. Operations Plan pending City Fire Department approval.
SAFETY-4	OSHA Program Manuals. Fire prevention plan, emergency action plan and relevant records on site.	SC, WC	CEC 30 days before construction/operation.	19 Mar 95 J/CEC-001 10 Mar 97 SCA 97-019	N/A	5	Plans are available at site office.
SAFETY-5	All exterior lighting to meet requirement in Visual Resources.	WC	CEC 60 days after construction.	6 Jun 96 CEC-052	N/A	5	
SOCIOECONOMIC							

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PROCTER AND GAMBLE COGENERATION PROJECT
CONDITIONS OF CERTIFICATION

NO.	CONDITION DESCRIPTION AND VERIFICATION	RP	AGENCY/ DUE DATE	SUBMITTAL DATE/NO	APPROVAL DATE	STATUS	COMMENTS
SOIL RESOURCES							
SOCIO-1	Submit to CEC: -List of contractors, subcontractors and vendors guidelines for local hiring and procurement procedures.	WC	CEC 60 days before construction.	24 Feb 95 MISC-020 19 May 95 J/CEC-002	N/A	5	
SOCIO-2	Compensate local school district in Sacramento for costs associated with increased pupil enrollment from project construction. Provide results of worker survey to CEC CPM for review and comment.	WC	CEC 30 days after peak employment	24 Sep 96 CEC-063	N/A	5	
SOIL-1	Submit to Sacramento City and CEC: -Grading and Erosion Control Program	WC	CEC 60 days prior to grading.	14 Jun 95 J/CEC-007		5	
SOIL-2	Implement measures in City approved GEC Plan Report status of any re-vegetation efforts in annual compliance report.	WC	CEC 30 days after grading. Report annually.	30 Jan 97 J/CEC-070	N/A	5	Status reported in ACR
SOIL-3	Notice to CEC: -Start of construction -Start of transmission line -Completion of erosion control measures	SC/WC	CEC 2 week before start.	WC-31 May 95 J/CEC-004 Sc-4 Dec 95	7 Mar 97	5	
SOIL-4	Submit to CEC: -Notice of Intention (NOI) to Cal. State Water Resources Control Board for Construction Activity Storm Water Permit.	WC	CEC 2 weeks before construction.	18 Apr 95 CEC-045	N/A	5	Notice of termination of permit submitted to SWRCB 2 Feb 97.
TRANSMISSION LINE SAFETY AND NUISANCE							
TLSN-1	Submit statement from responsible electrical engineer, registered in CA , stating T-line will be designed and constructed in accordance with California Code of Regulations.	SC	CEC 30 days before construction.	19 Sep 95 SCA 95-172	24 Oct 95	5	
TLSN-2	Locate and correct causes of radio and TV interference attributed to T-line facilities. Maintain written records.	SC	CEC Annually		N/A	2	Update provided annually in the ACR
TLSN-3	Keep T-line right-of-way free of flammable material. Maintain written inspection reports.	SC	CEC Annually		N/A	2	Update provided annually in the ACR.
TLSN-4	Ensure that all ungrounded large permanent metallic objects in T-line right-of-way are grounded.	SC	CEC 10 days before energizing.		N/A	5	Transmission line energized 1 Oct 96.

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PROCTER AND GAMBLE COGENERATION PROJECT CONDITIONS OF CERTIFICATION							
NO.	**CONDITION DESCRIPTION AND VERIFICATION**	**RP**	**AGENCY/ DUE DATE**	**SUBMITTAL DATE/NO**	**APPROVAL DATE**	**STATUS**	**COMMENTS**
TLSN-5	Prepare letter to all property owners within or adjacent to right-of-way containing: -Description of nature and operation of T-line.	SC	CEC 30 days before construction.	19 Mar 96 SCA 96-016 11 Apr 96 SCA 96-021	23 Apr 96 Verbal	5	Letters sent 27 Jun 96.
TLSN-6	Investigate all complaints from property owners. Maintain written records.	SC	CEC Annually		N/A	2	Update provided annually in the ACR
TLSN-7	-Select EMF Consultant -Select measurement locations -Take measurements -Submit results	SC	CEC Per requirements.	5 Sep 95 SCA 95-167 8 Jan 96 SCA 96-001 26 Aug 96 SCA 96-221 24 Dec 96 SCA 96-317	5 Oct 95 4 Sep 96 28 Jan 97	5	
TRAFFIC AND TRANSPORTATION							
TRANS-1	Comply with restriction on oversize or overweight limit vehicles.	WC	CEC During monthly reporting period.	Monthly compliance report #17	N/A	5	
TRANS-2	Obtain necessary encroachment permits from City, County and Caltrans.	WC	CEC During monthly reporting period.	Compliance report #12	N/A	5	Received city permit for driveways.
TRANS-3	Conduct monthly surveys, according to protocol: -Two months before peak construction or 100 construction workers. -Peak on-site construction -Two months following peak construction -Provide monthly car pooling results	WC	CEC 30 days after survey.		N/A	5	
TRANS-4	Ensure observation of regulation for transport of hazardous materials. Maintain copies of all shipping manifests related to hazardous material shipments.	SC	N/A		N/A	2	Record keeping in progress.
TRANS-5	Limit construction truck deliveries to 8:00am – 4:30pm on weekdays.	WC	CEC Monthly notice.		N/A	5	

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CONDITIONS OF CERTIFICATION

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TRANS-6	Schedule construction work so that peak traffic is outside peak periods of 7:15-8:30am and 3:30-5:15pm.	WC	CEC Monthly notice.		N/A	5	
TRANS-7	Provide P&G with schedule of gas line construction along Fruitridge Road east of Power Inn Road.	SC	CEC 60 days before pipeline construction.	7 Jul 95 J/CEC-017	N/A	5	
TRANSMISSION SYSTEM ENGINEERING							
VISUAL RESOURCES							
TSE-1	Ensure that design, construction and operations of proposed transmission facilities will conform to requirements.	SC	CEC 60 days before construction.	31 Jul 95 SCA 95-121 19 Sep 95 SCA 95-174	24 Oct 95	5	
TSE-2	Inform CEC CPM of any impending changes which may not conform to the requirements of TSE-1.	SC	CEC 30 days before construction.			5	No changes made to TSE-1. Work completed.
TSE-3	Prepare as-built drawings of transmission facilities.	SC	CEC 60 days after synchronization.	2 Jan 97 SCA 97-002	N/A	5	
VIS-1	Paint to minimize contrast and harmonize with environment. Submit proposed plan to CEC. Report painting maintenance annually.	WC	CEC 30 days after certification. Annually	13 Jul 95 J/CEC-018	8 Jul 97	5	
VIS-2	Submit to CEC: -Specs for non-reflective fencing.	WC	CEC 14 Jun 95	23 Jan 95 MISC-015 17 Apr 95 CEC-044	18 Apr 95 8 Jul 97	5	
VIS-3	Submit specification for landscape planting to CEC CPM. Notify CEC CPM for inspection with in 7 days after planting.	WC	CEC 120 days before comm. Operation.	9 Apr 96 J/CEC-47 28 Apr 97 SCA 97-038	29 May 96 30 Jul 97	5	
VIS-4	Design and install all lighting so that lights aren't visible from public viewing areas and illumination of vicinity and night sky is minimized. Submit specifications for lighting to CEC CPM. Notify CEC CPM 7 days after installation.	WC	CEC 90 days before buyout.	8 Apr 96 J/CEC-046 24 May 96 J/CEC-051	19 Aug 97	5	

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WASTE MANAGEMENT							
WASTE-1	Obtain: -Hazardous waste generator identification number. -Hazardous waste generator license.	SC, WC	Dep. Of Toxic Substances Control and Sacramento Co. Dep. Of Environmental Management		N/A	5	EPA ID #CAL000125795 License not required.
WASTE-2	Notify CEC CPM of any waste management-related enforcement action taken or proposed.	SC	CEC Within 10 days of becoming aware of impending enforcement action.		N/A	N/A	
WASTE-3	Submit to CEC: -Construction Waste Management Plan -In annual report, document actual waster mgmt. Methods compared to planned methods.	SC, WC	CEC 2 months before construction and 2 months before operation. Annually	24 Feb 95 MISC-022 25 May 95 J/CEC-003 27 Nov 96 SCA 96-285	6 Jan 97	WC-5 SC-5	Operations waste management plan approved.
WATER RESOURCES							
WATER-1	Condition: Procure NPDES permit for discharge of wastewater into Morrison Creek, Sacramento River. Notify CEC of any changes or renewal. Submit NPDES annual monitoring report annually to CEC.	SC	CEC 30 days before commercial operation. Annually	29 Nov 94 SCA 94-243	7 Feb 95	5	All process water discharge sent to sanitary sewer under SRCSD permit 423001
WATER-2	Design dikes for chemical storage tank area per requirements.	WC	Report per Soils-2	10 Nov 95 J/CEC-030	N/A	5	
NEW AUX BOILER							
AQ-SU1	Upon installation of equipment, contact SMAQMD for start up inspection	SC	CEC Completion of construction			1	
AQ-SU2	The ATC shall serve as Temporary PTO	SC				1	
AQ-SU3	ATC has been reviewed thru Enhanced NSR process IAW procedural reqmnts of Section 401-408 of Rule 207 Title V Federal Operating Permit program	SC				5	

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AQ-SU4	SCA shall submit to the APCO an application to modify the Title V permit with an Administrative TV permit amendment prior to commencing with modifications authorized by the ATC		CEC Within 15 days of execution of the condition	April 15, 2016		5	
AQ-AB1	The equipment shall be properly maintained and operated	SC	Assert compliance in quarterlty emissions reports			5	
AQ-AB2	The APCO or his representative shall be granted access to enter premises, inspect records and equipment	SC	Owner shall make site available			5	
AQ-AB3	The ATC does not authorize the emissions in excess of those allowed by Ca Health and safety code and SMAQMD rule	SC	CEC /AQMD Notify with 24 hours, report excess emissions to SMAQMD/CPM			2	Ongoing reporting as req'd
AQ-AB4	The equipment shall not discharge nuisance air contaminants	SC	CEC /AQMD Notify with 24 hours, report excess emissions to SMAQMD/CPM			2	Ongoing reporting as req'd
AQ-AB5	Copy of ATC kept onsite with eqpt	SC	SMAQMD/ARB/CPM Make ATC available for inspection			2	Ongoing reporting as req'd
AQ-AB6	Malfunction – Report breakdowns to APCO per rule 602	SC	SMAQMD /CEC Copy CEC on breakdown reports			2	Ongoing reporting as req'd
AQ-AB7	Severability –If any provision judged invalid, remainder of provisions remain valid	SC	None			2	Ongoing reporting as req'd
AQ-AB8	Boiler shall not emit visible air comtaminants	SC	CEC/ARB/SMAQMD Owner shall make site available for inspection			2	Ongoing reporting as req'd
AQ-AB9	Emissions from boiler not exceed listed limit for nitrogen oxide, CO	SC	Report compliance in quarterly reports			2	Ongoing reporting as req'd
AQ-AB10	Emission for auxiliary boiler shall not exceed listed limits.	SC	Report compliance in quarterly reports			2	Ongoing reporting as req'd
AQ-AB11	Emisson from all equipment shall not exceed listed limits.	SC	Report compliance in quarterly reports			2	Ongoing reporting as req'd

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AQ-AB12	Emission for auxiliary boiler shall not exceed listed limits for ammonia	SC	Report compliance in quarterly reports			2	Ongoing reporting as req'd
AQ-AB13	The boiler shall only be fired on pipeline natural gas	SC	Report compliance in quarterly reports			2	Ongoing reporting as req'd
AQ-AB14	Boiler fuel usage shall not exceed listed limits	SC	Report compliance in quarterly reports			2	Ongoing reporting as req'd
AQ-AB15	Boiler is subject to two start up periods	SC	Report compliance in quarterly reports			2	Ongoing reporting as req'd
AQ-AB16	Boiler shall have APCO approved CEMS installed	SC	CEC Within 30 days of installation, owner shall submit PE as-built review, submit dates of operation, durarion and reason for each run	May 15, 2016		5	
AQ-AB17	Boiler fuel usage shall be recorded	SC	Report compliance in quarterly reports per AQ32			2	Ongoing reporting as req'd
AQ-AB18	Emission Testing shall be performed annually	SC	Copy CEC on Source test plan, copy CEC on test report	2017 test 14Dec17		2	Ongoing reporting as req'd
AQ-AB19	Maintain listed records for most recent five years	SC	Report compliance in quarterly reports per AQ32			2	Ongoing reporting as req'd
AQ-AB20	Submit report to APCO with listed information	SC	Report compliance in quarterly reports per AQ32			2	Ongoing reporting as req'd
AQ-AB21	Permittee shall submit notification to EPA per NSPS 40 CFR 60 Subpart DB Section 60.49b(a)	SC	CEC Submit Compliance statement with quarterly reports			2	Ongoing reporting as req'd
AQ-AB22	Permite shall comply with Toxic Hot spots program	SC	CEC Notify CPM within 15 days of execution of this condition	Aug 2017. Jan 2018		2	Ongoing reporting as req'd

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AQ-AB23	Prior to construction, surrender ERC's	SC	CEC 30 days before operation, provide proof of transfer of ERC's	April 15, 2016		5	
AQ-AB24	Owner shall minimize NOX and CO emissions during defined commissioning period	SC	CEC /SMAQMD Submit monthly commissioning status report, Make written notification 60 days prior to initial start up	March 15, 2016		5	
AQ-AB25	Tune boiler as soon as practical after start up	SC	Report compliance in quarterly reports per AQ32			5	
AQ-AB26	Install, adjust and tune SCR as soon as practical to minimize NOX emissions	SC	Report compliance in quarterly reports per AQ32			5	
AQ-AB27	Submit plan 4 weeks before first fire prior to describing the procedures for commissioning the boiler.	SC	Submit commissioning procedures 4weeks prior to first fire	April 15, 2016		5	
AQ-AB28	During commissioning period record listed data for compliance with AB31-AB32 at least once per 15 min. Maintain records for 5 years		Submit monthly commissioning status report	June 15, 2016		5	
AQ-AB29	CEM shall be installed and operational prior to first fire.		NLT 30 days after installation of CEM, submit PE as-built statement	April 15, 2016		5	
AQ-AB30	Total hours without SCR during commission shall not exceed 84 hours		Upon completion of unabated operation Submit report to CPM with balance of hours			5	
AQ-AB31	Total mass emissions during commissioning shall accrue towards quarterly limits		Report compliance in quarterly reports per AQ32			5	
AQ-AB32	Mass emissions for Nox /CO shall not exceed listed values during commissioning period		Report compliance in quarterly reports per AQ32			2	Ongoing reporting as req'd

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SCA COGEN II

Efficiency Data Report

For Operating Year ***2018*** Report Date 1/18/2019

Power,W	804,225,000,000
Steam, lbs	588,253,866
Steam Enthalpy	1205
Fuel, scf	6,361,878,173
Fuel, btu/scf	1028.8

$$\frac{(\text{Power, W} * \text{BTU/W}) + (1/2\ (\text{Steam, lbs} * \text{Steam Enthalpy}))}{\text{Fuel, scf} * \text{BTU/scf}} = \text{Efficiency Standard}$$

$$\frac{620392200000 * 3.413 + 1/2 * (501384115 * 1205)}{547249751 * 1028.8} = 47.4\%$$

$$\frac{(\text{Steam, lbs} * \text{Steam Enthalpy})}{(\text{Power, W} * \text{BTU/W}) + (\text{Steam, lbs} * \text{Steam Enthalpy})} = \text{Operating Standard}$$

$$\frac{501384115 * 1205}{620392200000 * 3.413 + 501384115 * 1205} = 20.5\%$$

Minimum Efficiency Standard = 42.5%
Minimum Operating Standard = 5%

SCA COGEN II
Facility Availability and Reliability Data
For Operating Year 2018

Unit	*Gas Turbine 1A*
Total Outage	*1542.7*
Forced Outage	*5.6*
PSO Dispatched	*1051.7*
Scheduled Outage	*485.4*

Unit	*Gas Turbine 1B*
Total Outage	*1655.9*
Forced Outage	*7.3*
PSO Dispatched	*1056.4*
Scheduled Outage	*592.2*

Unit	*Steam Turbine*
Total Outage	*255.7*
Forced Outage	*2.4*
PSO Dispatched	*4.0*
Scheduled Outage	*249.3*

	Gas Turbine 1A	*Gas Turbine 1B*	*Steamer*
IEEE Availability	*94.4%*	*93.2%*	*97.1%*
IEEE Reliability	*99.94%*	*99.92%*	*99.97%*
IEEE Scheduled Outage Factor	*5.5%*	*6.8%*	*2.8%*
IEEE Forced Outage Factor	*0.1%*	*0.1%*	*0.0%*

Where:

Availability = (Available Hours/Period Hours)*100

Reliability = 1-(Forced Outage/Period Hours)*100

Scheduled Outage Factor = (Scheduled Outage Hours/Period Hours)*100

Forced Outage Outage Factor = (Forced Outage Hours/Period Hours)*100

Annual Sewer Discharge Report

Month	Date	Ave Flow	Total Flow
January 2018			
	1/1/2018	81.00	130845
	1/2/2018	99.00	126974
	1/3/2018	85.00	113080
	1/4/2018	98.00	132905
	1/5/2018	100.00	147708
	1/6/2018	118.00	119874
	1/7/2018	86.00	103083
	1/8/2018	74.00	158124
	1/9/2018	127.00	114357
	1/10/2018	96.00	117404
	1/11/2018	85.00	153055
	1/12/2018	111.00	143803
	1/13/2018	99.00	96062
	1/14/2018	69.00	114813
	1/15/2018	75.00	135016
	1/16/2018	102.00	119004
	1/17/2018	92.00	124121
	1/18/2018	97.00	159417
	1/19/2018	130.00	95880
	1/20/2018	61.00	100563
	1/21/2018	63.00	139430
	1/22/2018	98.00	112511
	1/23/2018	85.00	120424
	1/24/2018	83.00	146392
	1/25/2018	115.00	113295
	1/26/2018	81.00	130687
	1/27/2018	99.00	157216
	1/28/2018	98.00	121361
	1/29/2018	83.00	132585
	1/30/2018	101.00	160844
	1/31/2018	103.00	137406
	Month Total		3978238

Month	Date	Ave Flow	Total Flow
February 2018			
	2/1/2018	93.00	140218
	2/2/2018	96.00	182088
	2/3/2018	165.00	119311
	2/4/2018	103.00	125944
	2/5/2018	96.00	165059
	2/6/2018	123.00	92293
	2/7/2018	59.00	110269
	2/8/2018	71.00	141752
	2/9/2018	109.00	156767
	2/10/2018	105.00	124061
	2/11/2018	85.00	137425
	2/12/2018	116.00	157945
	2/13/2018	127.00	137977
	2/14/2018	97.00	156707
	2/15/2018	112.00	122505
	2/16/2018	101.00	125529
	2/17/2018	153.00	170081
	2/18/2018	179.00	157265
	2/19/2018	206.00	63704
	2/20/2018	54.00	104661
	2/21/2018	95.00	67464
	2/22/2018	52.00	120976
	2/23/2018	108.00	80535
	2/24/2018	61.00	109179
	2/25/2018	111.00	117477
	2/26/2018	109.00	177587
	2/27/2018	171.00	171786
	2/28/2018	188.00	224223
	Month Total		3760788

Month	Date	Ave Flow	Total Flow
March 2018			
	3/1/2018	213.00	211832
	3/2/2018	187.00	222120
	3/3/2018	206.00	186624
	3/4/2018	182.00	233298
	3/5/2018	232.00	219590
	3/6/2018	200.00	243845
	3/7/2018	242.00	226130
	3/8/2018	218.00	218682
	3/9/2018	205.00	224217
	3/10/2018	230.00	12146
	3/11/2018	234.00	224892
	3/12/2018	210.00	217863
	3/13/2018	226.00	244839
	3/14/2018	237.00	218202
	3/15/2018	212.00	235944
	3/16/2018	208.00	210900
	3/17/2018	212.00	204332
	3/18/2018	206.00	225335
	3/19/2018	206.00	254161
	3/20/2018	219.00	215392
	3/21/2018	207.00	254115
	3/22/2018	234.00	195120
	3/23/2018	188.00	216084
	3/24/2018	198.00	180812
	3/25/2018	179.00	196709
	3/26/2018	184.00	163975
	3/27/2018	188.00	191212
	3/28/2018	168.00	193955
	3/29/2018	200.00	168619
	3/30/2018	168.00	194838
	3/31/2018	220.00	204646
	Month Total		6410431

Month	Date	Ave Flow	Total Flow
April 2018			
	4/1/2018	223.00	255162
	4/2/2018	235.00	228011
	4/3/2018	199.00	182290
	4/4/2018	188.00	176913
	4/5/2018	180.00	169208
	4/6/2018	171.00	80626
	4/7/2018	80.00	48937
	4/8/2018	69.00	78636
	4/9/2018	114.00	20312
	4/10/2018	68.00	34964
	4/11/2018	76.00	2888
	4/12/2018	33.00	19035
	4/13/2018	36.00	134626
	4/14/2018	168.00	177051
	4/15/2018	155.00	163850
	4/16/2018	167.00	149062
	4/17/2018	177.00	141463
	4/18/2018	142.00	140886
	4/19/2018	138.00	182071
	4/20/2018	205.00	192411
	4/21/2018	209.00	199364
	4/22/2018	193.00	202348
	4/23/2018	210.00	218825
	4/24/2018	260.00	210426
	4/25/2018	235.00	171888
	4/26/2018	188.00	185387
	4/27/2018	192.00	171474
	4/28/2018	171.00	192033
	4/29/2018	188.00	198658
	4/30/2018	175.00	167442
	Month Total		4496246

Month	Date	Ave Flow	Total Flow
May 2018			
	5/1/2018	144.00	174512
	5/2/2018	172.00	195013
	5/3/2018	198.00	169056
	5/4/2018	169.00	216678
	5/5/2018	178.00	198966
	5/6/2018	206.00	199856
	5/7/2018	176.00	161206
	5/8/2018	174.00	198553
	5/9/2018	190.00	160958
	5/10/2018	155.00	148002
	5/11/2018	121.00	149942
	5/12/2018	125.00	208224
	5/13/2018	186.00	281789
	5/14/2018	246.00	204249
	5/15/2018	208.00	225170
	5/16/2018	217.00	168489
	5/17/2018	179.00	176419
	5/18/2018	157.00	91460
	5/19/2018	83.00	140995
	5/20/2018	120.00	77813
	5/21/2018	61.00	103421
	5/22/2018	128.00	124805
	5/23/2018	130.00	123475
	5/24/2018	91.00	164684
	5/25/2018	135.00	107576
	5/26/2018	82.00	159256
	5/27/2018	103.00	168889
	5/28/2018	133.00	103108
	5/29/2018	85.00	75144
	5/30/2018	147.00	124324
	5/31/2018	153.00	94595
	Month Total		4896625

Month	Date	Ave Flow	Total Flow
June 2018			
	6/1/2018	75.00	70694
	6/1/2018	56.00	70694
	6/2/2018	67.00	81553
	6/3/2018	137.00	159488
	6/4/2018	141.00	80302
	6/5/2018	107.00	116311
	6/6/2018	99.00	119102
	6/7/2018	88.00	104195
	6/9/2018	98.00	121604
	6/10/2018	128.00	130211
	6/11/2018	153.00	128540
	6/12/2018	98.00	157260
	6/13/2018	169.00	140824
	6/14/2018	132.00	137721
	6/15/2018	94.00	166737
	6/16/2018	191.00	158616
	6/17/2018	133.00	88837
	6/18/2018	63.00	73912
	6/19/2018	68.00	98666
	6/20/2018	102.00	114229
	6/21/2018	150.00	81145
	6/22/2018	134.00	153535
	6/23/2018	173.00	132910
	6/24/2018	157.00	131859
	6/25/2018	183.00	158349
	6/26/2018	156.00	121069
	6/27/2018	89.00	129944
	6/28/2018	113.00	151091
	6/29/2018	161.00	107527
	6/29/2018	77.00	107527
	6/30/2018	98.00	140851
	Month Total		3735302

Month	Date	Ave Flow	Total Flow
July 2018			
	7/1/2018	109.00	125538
	7/2/2018	134.00	151391
	7/3/2018	133.00	85475
	7/4/2018	67.00	80108
	7/5/2018	107.00	135429
	7/7/2018	98.00	185536
	7/8/2018	167.00	148854
	7/9/2018	98.00	158979
	7/10/2018	98.00	165661
	7/11/2018	150.00	101501
	7/12/2018	73.00	157114
	7/13/2018	112.00	193097
	7/14/2018	155.00	237922
	7/15/2018	197.00	258558
	7/16/2018	236.00	240496
	7/17/2018	229.00	335271
	7/18/2018	306.00	250099
	7/19/2018	222.00	267876
	7/20/2018	226.00	220331
	7/21/2018	227.00	200355
	7/22/2018	196.00	264254
	7/23/2018	227.00	279484
	7/24/2018	229.00	343684
	7/25/2018	284.00	226752
	7/26/2018	196.00	276243
	7/27/2018	184.00	187696
	7/27/2018	248.00	187696
	7/28/2018	253.00	272611
	7/29/2018	263.00	285403
	7/30/2018	254.00	289817
	7/31/2018	270.00	277500
	Month Total		6590731

Month	Date	Ave Flow	Total Flow
August 2018			
	8/1/2018	236.00	238946
	8/2/2018	222.00	262457
	8/3/2018	0.00	263388
	8/4/2018	229.00	299097
	8/5/2018	288.00	264953
	8/6/2018	270.00	255025
	8/7/2018	244.00	305653
	8/8/2018	276.00	329691
	8/9/2018	276.00	300732
	8/10/2018	254.00	334552
	8/11/2018	259.00	238331
	8/12/2018	232.00	302296
	8/13/2018	258.00	245264
	8/14/2018	228.00	306099
	8/15/2018	260.00	264727
	8/16/2018	245.00	247636
	8/17/2018	213.00	259594
	8/18/2018	246.00	253189
	8/19/2018	265.00	247065
	8/20/2018	260.00	253497
	8/21/2018	260.00	214665
	8/22/2018	229.00	186662
	8/23/2018	244.00	87318
	8/24/2018	95.00	29316
	8/25/2018	145.00	102978
	8/26/2018	190.00	112835
	8/27/2018	126.00	125907
	8/28/2018	149.00	164043
	8/29/2018	215.00	186699
	8/30/2018	215.00	204513
	8/31/2018	0.00	166003
	Month Total		7053131

Month	Date	Ave Flow	Total Flow
September 2018			
	9/1/2018	158.00	197936
	9/2/2018	229.00	152833
	9/3/2018	198.00	190509
	9/4/2018	211.00	197443
	9/5/2018	197.00	225375
	9/6/2018	206.00	186645
	9/7/2018	191.00	227399
	9/8/2018	225.00	210741
	9/9/2018	210.00	210415
	9/10/2018	243.00	220374
	9/11/2018	218.00	177334
	9/12/2018	225.00	178878
	9/13/2018	217.00	188394
	9/14/2018	237.00	176321
	9/15/2018	194.00	159424
	9/16/2018	178.00	178957
	9/17/2018	181.00	186192
	9/18/2018	188.00	196987
	9/19/2018	216.00	176605
	9/20/2018	145.00	171677
	9/21/2018	155.00	187282
	9/22/2018	169.00	192601
	9/23/2018	178.00	154919
	9/24/2018	160.00	147823
	9/25/2018	145.00	189029
	9/26/2018	218.00	238296
	9/27/2018	205.00	154981
	9/28/2018	183.00	170498
	9/29/2018	176.00	184747
	9/30/2018	167.00	157582
	Month Total		5588195

Month	Date	Ave Flow	Total Flow
October 2018			
	10/1/2018	163.00	134172
	10/2/2018	148.00	156123
	10/3/2018	131.00	196941
	10/4/2018	156.00	168199
	10/5/2018	196.00	69169
	10/6/2018	147.00	102411
	10/7/2018	102.00	47534
	10/8/2018	40.00	52795
	10/9/2018	95.00	141600
	10/10/2018	144.00	60326
	10/11/2018	171.00	161694
	10/12/2018	109.00	114747
	10/13/2018	118.00	99847
	10/14/2018	30.00	13977
	10/15/2018	18.00	32966
	10/16/2018	39.00	28711
	10/17/2018	38.00	106903
	10/18/2018	164.00	90527
	10/19/2018	93.00	93064
	10/19/2018	63.00	93064
	10/20/2018	188.00	142800
	10/21/2018	107.00	105143
	10/22/2018	81.00	129317
	10/23/2018	94.00	138319
	10/24/2018	100.00	78513
	10/25/2018	52.00	129656
	10/27/2018	160.00	72965
	10/28/2018	170.00	107903
	10/29/2018	175.00	81492
	10/30/2018	190.00	114554
	10/31/2018	130.00	72048
	Month Total		3137477

Month	Date	Ave Flow	Total Flow
November 2018			
	11/1/2018	42.00	95816
	11/2/2018	63.00	102325
	11/3/2018	118.00	95473
	11/4/2018	141.00	64484
	11/5/2018	38.00	119953
	11/6/2018	141.00	81572
	11/7/2018	45.00	63836
	11/8/2018	62.00	93676
	11/9/2018	99.00	83419
	11/10/2018	51.00	112923
	11/11/2018	112.00	95674
	11/12/2018	56.00	128065
	11/13/2018	88.00	116597
	11/14/2018	74.00	134090
	11/15/2018	296.00	115077
	11/16/2018	130.00	116698
	11/17/2018	151.00	144521
	11/18/2018	208.00	130450
	11/19/2018	98.00	158003
	11/20/2018	197.00	184149
	11/21/2018	238.00	191215
	11/22/2018	228.00	145775
	11/23/2018	154.00	126799
	11/24/2018	141.00	184179
	11/25/2018	184.00	178832
	11/26/2018	179.00	154450
	11/27/2018	174.00	193440
	11/28/2018	145.00	260444
	11/29/2018	258.00	289468
	11/30/2018	207.00	269212
	Month Total		4230612

Month	Date	Ave Flow	Total Flow
December 2018			
	12/1/2018	202.00	261730
	12/2/2018	195.00	257220
	12/3/2018	197.00	280412
	12/4/2018	239.00	193214
	12/5/2018	222.00	185660
	12/6/2018	221.00	214536
	12/7/2018	189.00	198683
	12/8/2018	177.00	166078
	12/9/2018	206.00	180580
	12/10/2018	196.00	190292
	12/11/2018	197.00	211782
	12/12/2018	229.00	247783
	12/13/2018	239.00	194227
	12/14/2018	250.00	235097
	12/14/2018	211.00	235097
	12/15/2018	217.00	200163
	12/16/2018	218.00	236432
	12/17/2018	220.00	235347
	12/18/2018	225.00	201780
	12/19/2018	166.00	175407
	12/20/2018	190.00	162442
	12/22/2018	86.00	163888
	12/23/2018	97.00	132993
	12/24/2018	122.00	128301
	12/25/2018	95.00	134000
	12/26/2018	149.00	88083
	12/27/2018	81.00	131279
	12/28/2018	147.00	76916
	12/29/2018	71.00	135332
	12/29/2018	170.00	135332
	12/31/2018	151.00	98778
	Month Total		5688866
	Annual Total		59566642

SCA Cogen II
Annual Sewer Monitoring Summary Report

Discharge Permit 423001 was renewed on January 1, 2018 with an expiration date of December 31, 2021. The renewed permit no longer requires semi-annual samples to be taken.

EthosEnergy

5000 83rd St.
Sacramento, CA 95826
Phone: (916) 379-2041

January 24, 2019

Ms. Mary Dyas
CEC
1516 9th St. MS 2000
Sacramento, CA 95814

RE: SCA 2018 Transmission Line and Nuisance Report

The SCA Conditions of Certification require annual reporting for the following conditions

TLSN 2:
All radio and television interference records shall be maintained by the project owner, available for CEC CPM inspection, and summarized in the Annual Compliance Report.

TLSN 3:
The project owner shall provide a summary of the inspection results and any clean-up and fire prevention activities along the right of way in the Annual Compliance Report.

TLSN 6:
The project owner shall maintain a record of activities (grounding, notification and correspondence) related to this condition. A summary of these records shall be included in the Annual Compliance Report.

After conferring with the appropriate SMUD service departments, I have confirmed that the following statements are correct for calendar year 2018:

- There were no reports of radio or television interference associated with the Sacramento Cogeneration Authority Project transmission lines during 2018.
- In the year 2018, there were no trees in the right of way of the Sacramento Cogeneration Authority Project that required trimming or removal.
- There were no complaints associated with induced voltages on vehicles, fences, or other metallic objects during 2018.

Jefferey White
Facility Manager
SCA Cogen II