

DOCKETED

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February 27, 2020

Mr. Keith Winstead
Compliance Project Manager
California Energy Commission
1516 Ninth Street, MS-15
Sacramento, CA 95814-5512

Re: Palomar Energy Center (01-AFC-24) Annual Compliance Report

Dear Dr. Winstead:

Pursuant to the requirements of Certification Condition, COM-7, attached for your review is the Annual Compliance Report for the Palomar Energy Center.

The reporting requirements of COM-7 include:

1. An updated compliance matrix,
2. A summary of the project operating status and an explanation of any significant changes to facility operations during the year,
3. Documents required for specific conditions including:
 - BIO-3
 - BIO-5
 - HAZ-1
 - PH-1
 - SOIL & WATER -5
 - SOIL & WATER -6
 - WASTE-5
 - VIS-3
 - VIS-6
4. A cumulative listing of all post –certification changes approved by the Energy Commission,
5. An explanation for any submittal deadlines that were missed,
6. A listing of filings made to, or permits issued by, other governmental agencies during the year,
7. A projection of project compliance activities schedule during the year,
8. A listing of the year’s additions to the on-site compliance file,
9. An evaluation of the on-site contingency plan for unplanned facility closure, and
10. A listing of complaints, notices of violation, official warnings, and citations received during the year, a description of the resolution of any resolved complaints, and the status of any unresolved complaints.

If you have any questions regarding this information, please feel free to contact me at (760) 432-2547; email jdobbs@sdge.com.

Thank you,

Jason Dobbs



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I. Updated Compliance Matrix

Please see Attachment 1 for the updated compliance matrix.

II. Operating Status and Significant Changes

The Palomar Energy Center (PEC) ran throughout 2019 as directed by CAISO. Typical operating status was 2 on 1 with plant cycling as directed. There were no significant operating status changes to the facility during the year. See item IV for information on post certification changes that were made during the year, if any.

III. Specific Conditions Requiring Submittal(s)

A. BIO-3:

BIO-3 provides a description of duties to be performed by a designated biologist during any site mobilization, ground disturbance, grading, and construction activities. During the project operation, the Designated Biologist shall submit record summaries in the annual compliance report.

Condition of Certification BIO-3 has been interpreted to require the Designated Biologist to undertake the activities listed in that condition for areas requiring avoidance or containing sensitive biological resources. Activities conducted on previously disturbed, paved, or covered surfaces within the active operational footprint of the Palomar Energy Plant do not contain and is not adjacent to any areas requiring avoidance of any sensitive biological resources.

Since change of ownership on March 30, 2006 PEC has not required a designated biologist.

B. BIO-5

BIO-5 requires that the Worker Environmental Awareness Program (WEAP) must be provided to site employees during any site mobilization, ground disturbance, grading, operation and closure activities. This plan informs employees about sensitive biological resources associate with the project. Specific sensitive species include the Coastal California Gnatcatcher and the Western Spadefoot Toad.

Condition of Certification BIO-5 has been interpreted to require Work Environmental Awareness Program (WEAP) training for activities that affect sensitive biological resources. Activities conducted on previously disturbed,



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paved, or covered surfaces within the active operational footprint of the Palomar Energy Plant do not contain and is not adjacent to any areas requiring avoidance of any sensitive biological resources.

WEAP training was not conducted in 2019; training records indicate that 880 persons have taken WEAP training referenced in the Condition of Certification.

C. HAZ-1

Please see Attachment 2 for the list of hazardous chemicals contained at the facility in reportable quantities.

D. PH-1

PH-1 requires Palomar Energy Center to implement a Biocide Use, Biofilm Prevention and Legionella Monitoring Program.

Palomar Energy Center has implemented the Biocide Use, Biofilm Prevention and Legionella Monitoring Program fully.

E. S&W-5

In April 2006, PEC received permission to modify condition S&W-5. If recycled water is unavailable due to maintenance or events beyond the control of the City of Escondido, the PEC may use raw water supplied from the emergency backup water supply system operated by the City. This condition also requires PEC to pay a fee (donate) to a water conservation program in the amount of \$522 per acre foot (AF), escalated annually in the same manner as the annual compliance fee.

In 2019 a total of 31.31 AF of backup water was used. The corresponding fee per AF is \$574.02 resulting in a donation of \$17,971.77. Please see Attachment 3 for additional details on the water conservation donation(s) made.

F. S&W-6

S&W-6 requires PEC to provide an annual summary of the daily water use by the PEC, differentiating between potable and recycled water. The annual summary report shall be based on, and shall distinguish, recorded daily use of potable and recycled water, and document the quantities of tertiary-treated disinfected wastewater in gpd delivered to the PEC and potable water supplied over the previous year. The report shall include calculated monthly average and annual use by the project in both gallons per day and acre-feet per year.

Palomar Energy Center has continued to use tertiary-treated disinfected wastewater for its processes and potable water for any purpose other than domestic and sanitary use except as allowed by Condition S&W-5. Please see Attachment 4 for water use details.



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G. WASTE-5

Waste-5 requires PEC to submit an Operation Waste Management Plan (OWMP) that includes descriptions of waste streams and methods of management. The OWMP is reviewed to verify actual waste management methods used during the year are consistent with planned management methods.

PEC has reviewed the OWMP and found that all hazardous waste is being managed in compliance with all State, Federal and local hazardous waste rules and regulations. All employees who manage or handle hazardous materials and waste are trained on applicable procedures, rules and regulations and policies. If wastes are generated by any operation, trained and qualified company employees determine if the waste is a hazardous waste. Employees responsible for hazardous waste management follow written standards in the SDG&E Environmental Protection Standards Binder. The binder includes several standards that guide the management of hazardous materials for all utility wastes. Both the binder and OWMP are used to manage waste from the facility. Each hazardous waste stream is evaluated to determine if it is recyclable. Recyclable waste may be sent to hazardous waste recycling facilities whenever practicable.

H. VIS-3

VIS-3 requires PEC to treat the surfaces of all project structure and buildings visible to the public and implement the treatment plan submitted after change of ownership. The project owner shall provide a status report regarding treatment maintenance in the annual compliance report.

PEC has created a work order to check the facility on an annual basis to ensure compliance with the treatment plan submitted to CEC. A contract is in place through our internal Facilities Department to expedite all repairs if/when they are encountered. Only minor maintenance (touch up) was performed during the compliance period.

I. VIS-6

VIS-6 requires PEC to design and install all permanent lighting. The project owner shall report any complaints about permanent lighting and provide documentation of resolution in the annual compliance report.

Since change of ownership on March 30, 2006, PEC has not received any complaints related to or referencing permanent lighting at the PEC.



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IV. Approved Post Certification Changes (Cumulative)

A. 2006

PROJECT: Raw water use (S&W-5).
STATUS: Completed.

B. 2009

PROJECT: Installation of a temporary transformer pad
STATUS: Completed on 9/15/2009.

PROJECT: Construction of a new special equipment storage building.
STATUS: Completed on 12/7/2009.

PROJECT: Control room remodel.
STATUS: Completed on 12/16/2009.

PROJECT: Inlet air chiller upgrade (AQ-SC12, TSE-10).
STATUS: The air chiller portion of the project was installed in 2008. The Thermal Storage Tank portion of the project was completed in December of 2009.

C. 2010

PROJECT: Water treatment chemical storage tanks and associated equipment.
STATUS: Completed in 2010.

PROJECT: Installation of a second Load Commutator Inverter and associated switchgear.
STATUS: Completed in 2011.

PROJECT: 1400 kilowatt emergency generator (AQ-SC13, AQ-56 through 66).
STATUS: Completed in 2011

PROJECT: Fabrication Shop and Water Lab building addition.
STATUS: The fabrication building was completed during 2011 and the laboratory construction was finished in 2012.



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D. 2011

PROJECT: Electrical parts storage warehouse.
STATUS: In progress.

PROJECT: Expand existing switchgear (North 5kV)
STATUS: Completed.

E. 2012

PROJECT: Modification of an existing enclosure used to house the cooling tower switching equipment
STATUS: Completed December 2016.

PROJECT: Gantry crane for steam turbine maintenance.
STATUS: Completed in 2013.

PROJECT: Installation of an elevator on unit one heat recovery steam generator.
STATUS: Completed in 2013.

PROJECT: Installation of a bridge crane for the combustion turbines maintenance.
STATUS: Completed in 2013.

F. 2013

PROJECT: Administration building expansion
STATUS: Construction has not begun.

PROJECT: Emergency engine operation (AQ-SC13)
STATUS: Completed.

G. 2017

PROJECT: Advanced Gas Path (AGP) & AQ Alignment
STATUS: Approved (12/2017). The AGP project is scheduled for installation during the 2020 outage.

PROJECT: Storm Water Reclamation
STATUS: Approved (12/2017). Project has not begun.



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V. Submittal deadlines that were missed

A review of internal records indicates that there were no submittal deadlines missed in 2019 without prior authorization.

VI. List of Filings and Permits Issued

A. San Diego Air Pollution Control District

- Authority to Construct for advanced gas path upgrade
- Quarterly Emissions Reports
- Breakdown & Post Breakdown Reports
- Annual RATA & Source Tests
- Annual Toxic Inventory Report
- Greenhouse Gas Reports

B. City of Escondido

- Annual IUD Report – Submitted annually in July
- Semi-Annual IUD Report – Submitted in January and July
- Monthly Reports – Submitted on the 15th of the following month

C. State & Regional Water Resource Control Board

- Annual SWPPP Report & Fees
- Ad-Hoc reporting of storm events
- Annual Chemical usage log
- Semi-Annual Reports
- Monthly Reports

D. Department of Energy

- Forms 860 & 923

E. Environmental Protection Agency

- Quarterly Emissions Data Reports
- Title IV
- Title V

F. Department of Environmental Health

- Health Permit
- Annual Certification of Hazardous Materials Business Plan
- CalARP (three and five year submittals)



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G. Cal/OSHA

- Pressure Vessel Permits (various, quinquennial cycle)
- Annual Voluntary Protection Program report

VII. Projection of Compliance Activities

- Monthly, Semi-Annual, Quarterly and Annual requirements for all permits and plans as required
- Annual air emissions testing
- Electrical parts warehouse construction
- Facility lighting upgrade

VIII. List of Filing Additions

A. California Air Resources Board

- Greenhouse Gas Reports

B. City of Escondido

- Industrial Users Discharge Report
- Annual Reports – Submitted annually in July
- Semi-Annual Reports – Submitted semi-annually in January and July
- Monthly Reports – Submitted on the 15th of the following month

C. Department of Energy

- Forms 860 & 906

D. Department of Environmental Health

- Annual Health Permit
- Annual Certification of Hazardous Materials Business Plan
- CalARP Report – as required

E. Environmental Protection Agency

- Title IV
- Title V
- Quarterly Emissions Data Reports
- Greenhouse Gas Reports

F. San Diego Air Pollution Control District

- Quarterly Emissions Reports
- Breakdown Reports / Post Breakdown Reports
- Annual RATA & Source Tests



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G. State & Regional Water Resource Control Board

- Annual SWPPP Report and fees

IX. Contingency Plan Review

The onsite Contingency Plan for Unplanned Facility Closure was reviewed and found to be up-to-date. The current PEC Emergency Action Plan is located on the [Emergency Response Team webpage](#) and is part of this Contingency Plan. The notification procedures, facility contact information and agency contacts are still current. There is no further action required at this time.

X. Complaints NOVs and Citations

A. Complaints

The Palomar Energy Center received and logged 0 noise complaints during the operating year.

B. Notices of Violations (NOV) & Notices to Comply (NTC)

Palomar Energy Center did not receive any NOV in 2019. Palomar Energy Center is currently in compliance with all applicable permit requirements.

C. Official Warnings

Palomar Energy Center has received no Official Warnings during the operating year despite more than a dozen inspections by various agencies.

D. Citations

Palomar Energy Center did not receive any citations during the operating year.



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Attachment 1 - Compliance Matrix

Attachment 1
Compliance Matrix

Condition Number	CONDITION DESCRIPTION	Date Submitted	Comments	Date Approved
AQ-SC1	Air Quality Construction Manager	Deleted	Deleted per staff analysis of PTA SDGE 2016a	11/9/2017
AQ-SC2	Construction Mitigation Plan	Deleted	Deleted per staff analysis of PTA SDGE 2016a	11/9/2017
AQ-SC3	AQCMM MCR	Deleted	Deleted per staff analysis of PTA SDGE 2016a	11/9/2017
AQ-SC4	Visible emissions	Deleted	Deleted per staff analysis of PTA SDGE 2016a	11/9/2017
AQ-SC5	Emissions offset credits	Deleted	Deleted per staff analysis of PTA SDGE 2016a	11/9/2017
AQ-SC6	Air permit modifications	Ongoing	Any significant approved air permit mod has been submitted via Quarterly Operational Report (AQ-SC7)	Ongoing
AQ-SC7	Quarterly Operational AQ Report	Ongoing	Quarterly reports have been submitted to CPM as required each quarter. Copies of these reports are available upon request.	Ongoing
AQ-SC8	Cooling Tower recirculation water flow data	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-SC9	Cooling tower PM10 emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-SC11	Source Testing	DELETED	Deleted per staff analysis of PTA SDGE 2016a	11/9/2017
AQ-SC12	Greenhouse Gas Emissions	DELETED	Deleted per staff analysis of PTA SDGE 2016a	11/9/2017
AQ-SC13	Emergency engine operation	Ongoing	Submitted in the quarterly operations report	
AQ-1	Equipment condition	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-2	Natural gas requirements	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-3	Emissions credits	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-4	Source testing	Ongoing	Test results submitted to CPM as required	Ongoing
AQ-5	NOx emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-6	CO emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-7	VOC emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-8	Ammonia emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-9	NOx emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-10	NOx emissions	Ongoing	Submitted in the quarterly operations report	Ongoing

Attachment 1
Compliance Matrix

Condition Number	CONDITION DESCRIPTION	Date Submitted	Comments	Date Approved
AQ-11	PM10 emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-12	PM10 emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-13	Visible emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-14	Mass emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-15	Mass emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-16	Mass emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-17	Mass emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-18	Mass emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-19	Emissions calculations	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-20	Mass emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-21	Hazardous Air Pollutants	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-22	Cooling tower TDS	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-23	Ammonia emissions	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-24	Ammonia flow	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-25	Ammonia system control	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-26	Ammonia concentration	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-27	Shutdown period	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-28	Startup period	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-29	Low load operation	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-30	Tuning operations	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-31	CEMS protocol	Ongoing	Available for inspection upon request	Ongoing
AQ-32	Source test results	Ongoing	Submitted as required	Ongoing
AQ-33	RATA scheduling	Ongoing	Submitted as required	Ongoing
AQ-34	Source testing	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-35	RATA test results	Ongoing	Submitted as required	Ongoing
AQ-36	CEMS records	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-37	CEMS capabilities	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-38	CEMS calculations	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-39	Emissions exceedances	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-40	CEMS maintenance	Ongoing	Submitted in the quarterly operations report	Ongoing

Attachment 1
Compliance Matrix

Condition Number	CONDITION DESCRIPTION	Date Submitted	Comments	Date Approved
AQ-41	CEMS software	Ongoing	Submitted as required	Ongoing
AQ-42	Fuel flow recordkeeping	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-43	CEMS capabilities	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-44	CEMS records	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-45	Recordkeeping	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-46	Facility access	Ongoing	Available for inspection upon request	Ongoing
AQ-47	Source testing	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-48	Obtaining required permits	Ongoing	Required permits are obtained as required	Ongoing
AQ-49	Air Toxics (AB2588)	Ongoing	Submitted in the quarterly operations report	Ongoing
AQ-50	Definitions	Ongoing	Available for inspection upon request	Ongoing
AQ-51	New equipment	Ongoing	Applicable documentation will be submitted as required	Ongoing
AQ-52	New equipment	Ongoing	Applicable documentation will be submitted as required	Ongoing
AQ-53	New equipment	Ongoing	Applicable documentation will be submitted as required	Ongoing
AQ-54	New equipment	Ongoing	Applicable documentation will be submitted as required	Ongoing
AQ-55	New equipment	Ongoing	Applicable documentation will be submitted as required	Ongoing
AQ-EEG1	Operational prohibitions	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG2	Operational prohibitions	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG3	Operational prohibitions	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG4	Natural gas requirements	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG5	Visible emissions	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG6	Public nuisance	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG7	Hour meter	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG8	Prudent maintenance	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG9	Operating procedures	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG10	Operating log	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG11	Recordkeeping	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG12	Facility access	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG13	Obtaining required permits	Ongoing	Submitted in the Q4 operations report	Ongoing
AQ-EEG14	Air Toxics (AB2588)	Ongoing	Submitted in the Q4 operations report	Ongoing



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Attachment 2 – Chemical Inventory

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location Admin Bldg. NE Area	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids)	LEAD ACID BATTERIES	Gallons	203	3	203		- Physical Corrosive To	Lead/Lead Oxide/Lead Sulfate	60 %	7439-92-1
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>	Metal	Antimony	3 %	7440-36-0
		Liquid	Other		Ambient		- Health Acute	Arsenic	0 %	7440-38-2
		<u>Type</u>			<u>Temperature</u>		Toxicity	Sulfuric Acid	40 %	7664-93-9
		Mixture	Days on Site: 365		Ambient		- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Calcium	0 %	7440-70-2

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location CEMS Sheltar Area	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases	CEMS CALIBRATION GAS MIX (NO Cu. Feet in N2)	Cu. Feet	1120	140	840		- Physical Gas Under Pressure - Health Hazard Not Otherwise Classified	Nitrogen Nitric Oxide	99 % 1 %	7727-37-9 ✓ 10102-43-9
	<u>State</u> Gas	<u>Storage Container</u> Cylinder				<u>Pressue</u> > Ambient				
	<u>CAS No</u>	<u>Type</u> Mixture	Days on Site: 365			<u>Temperature</u> Ambient				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location Cylinder Storage CEMS Sheltar	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 2.1 - Flammable Gases	ACETYLENE, DISSOLVED	Cu. Feet	1320	330	660		- Physical			
Combustible Liquid, Class III-B	CAS No 74-86-2	State Gas	Storage Container Cylinder		Pressue > Ambient	Waste Code	Flammable - Health Respiratory Skin Sensitization			
		Type Pure	Days on Site: 365		Temperature Ambient					
DOT: 2.2 - Nonflammable Gases	CEMS CALIBRATION GAS MIXTURE (CO and NO)	Cu. Feet	5320	140	3990		- Physical Gas Under Pressure - Health Simple Asphyxiant	Carbon Monoxide Nitric Oxide Nitrogen	15 % 1 % 84 %	630-80-0 10102-43-9 7727-37-9
	CAS No	State Gas	Storage Container Cylinder		Pressue > Ambient	Waste Code				
		Type Mixture	Days on Site: 365		Temperature Ambient					
DOT: 2.2 - Nonflammable Gases	CEMS CALIBRATION GAS MIXTURE (CO in N2)	Cu. Feet	280	140	210		- Physical Gas Under Pressure - Health Simple Asphyxiant	Nitrogen Carbon Monoxide	80 % 20 %	7727-37-9 630-08-0
	CAS No	State Gas	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. SDG&E	Chemical Location lab	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids)	CHLORINE BLEACH (BIOCIDE FOR WATER SYSTEMS)	Gallons	11325	6000	8500		- Physical Corrosive To Metal	Sodium Hypochlorite	13 %	7681-52-9
	CAS No 7681-52-9	State Liquid	Storage Container Aboveground Tank, Tank Inside Building		Pressue Ambient	Waste Code				
		Type Mixture	Days on Site: 365		Temperature Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location Main Shop	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS
	WASTE, GRINDING DUST	Pounds	300	300	50	300	- Health Hazard			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>	Not Otherwise Classified			
		Solid	Steel Drum		Ambient	181				
		<u>Type</u>			<u>Temperature</u>					
		Waste	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location Main shop	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases	COMPRESSED GASES (ARGON, CARBON DIOXIDE)	Cu. Feet	280	280	210		- Health Simple Asphyxiant	Carbon Dioxide Argon	25 % 75 %	124-38-9 7440-37-1
	<u>CAS No</u>	<u>State</u> Gas	<u>Storage Container</u> Cylinder			<u>Pressue</u> > Ambient	<u>Waste Code</u>			
		<u>Type</u> Mixture	Days on Site: 365			<u>Temperature</u> Ambient				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location Main Shop	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 6.1 - Toxic Substances	Mercuric Iodide	Gallons	30	30	30	20	- Health Acute			
Highly Toxic	CAS No 7774-29-0	State Liquid	Storage Container Steel Drum, Plastic/Non-metalic		Pressue Ambient	Waste Code	Toxicity - Health Skin			
		Type Waste	Drum Days on Site: 365		Temperature Ambient		Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location NE Area - SDG&E Plant	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 2.1 - Flammable Gases	HYDROGEN (FOR GENERATOR COOLING)	Cu. Feet	88000	84000	63000		- Physical			
	<u>CAS No</u> 1333-74-0	<u>State</u> Gas	<u>Storage Container</u> Aboveground Tank, Cylinder		<u>Pressue</u> > Ambient	<u>Waste Code</u>	Flammable			
		<u>Type</u> Pure	Days on Site: 365		<u>Temperature</u> Ambient		- Physical Gas			
							Under Pressure			
							- Health Hazard			
							Not Otherwise Classified			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location New Product area by Haz Mat Pad	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 9 - Misc. Hazardous Materials	BL180 (CLOSED COOLING WATER CORROSION INHIBITOR)	Gallons	110	55	55		- Health Skin Corrosion	Sodium nitrite	30 %	7632-00-0
		<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>		Irritation	Sodium tetraborate pentahydrate	2 %	12179-04-3
		<u>Liquid</u>	Plastic/Non-metalic Drum		<u>Ambient</u>	<u>Waste Code</u>	- Health Serious Eye Damage Eye Irritation			
		<u>CAS No</u>	<u>Type</u>	Days on Site: 365	<u>Ambient</u>					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location New Product Area next to Haz Mat Pad	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	CIRCULATING OIL / COMPRESSOR OIL	Gallons	385	55	165		- Physical - Flammable - Health - Carcinogenicity - Health Hazard - Not Otherwise Classified			
	<u>CAS No</u> See Description	<u>State</u> Liquid <u>Type</u> Pure	<u>Storage Container</u> Steel Drum Days on Site: 365		<u>Pressue</u> Ambient <u>Temperature</u> Ambient	<u>Waste Code</u>				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location North East Area - Flue gas inlet	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS
	WASTE, GAS SCRUBBER	Gallons	250	55	15	60	- Physical			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Flammable			
		Liquid	Steel Drum		Ambient	581				
		<u>Type</u>			<u>Temperature</u>					
		Waste	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029	Palomar Water Lab	Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
Corrosive	Sodium Hydroxide 0.5 - 10% Lab Waste	Gallons	1	1	1	5	- Health Skin			
	<u>State</u>	<u>Storage Container</u>				<u>Waste Code</u>	Corrosion			
	<u>Liquid</u>	Plastic/Non-metallic Drum					Irritation			
	<u>CAS No</u>	<u>Type</u>								
		Waste	Days on Site: 365							

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location Product storage area	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
Corrosive	CL4515 SurfClean	Gallons	1000	330	1000		- Health Skin	Alcohols (C12-16) Ethoxylated	5 %	68551-12-2
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>	Corrosion			
		Liquid	Tote Bin		Ambient		Irritation			
		<u>Type</u>	Mixture		<u>Temperature</u>		- Health Hazard			
			Days on Site: 365		Ambient		Not Otherwise Classified			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location Product storage Area	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids) Corrosive	CL 4132 (Corrosion Inhibitor for Copper Alloys)	Gallons	660	330	660		- Physical	Chlorotolyltriazole sodium salt	20 %	202420-04-0
		State Liquid	Storage Container Tote Bin		Pressue Ambient	Waste Code	Corrosive To Metal	Dichlorotolyltriazile	10 %	NA
	CAS No	Type Mixture	Days on Site: 365		Ambient		- Health Skin Corrosion Irritation	Sodium 4(or 5)-methyl-1H-benzotriazolide	5 %	64665-57-2
								Sodium Hydroxide	5 %	1310-73-2

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location SDG&E Plant	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	SODIUM BROMIDE COOLING WATER TREATMENT	Gallons	3000	3000	2250		- Health Hazard Not Otherwise Classified	SODIUM BROMIDE	40 %	7647-15-6
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>				
		Liquid	Aboveground Tank		Ambient					
		<u>Type</u>			<u>Temperature</u>					
		Mixture	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location SDG&E Plant	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids)	CL 206 (CLOSED COOLING WATER MICROBIOCIDE)	Gallons	300	55	5		- Health Skin Corrosion	2-2-Dibromo-3-nitrilopropionamide	20 %	10222-01-2
	<u>CAS No</u> 10222-01-2	<u>State</u> Liquid	<u>Storage Container</u> Tote Bin		<u>Pressue</u> Ambient	<u>Waste Code</u>	Irritation - Health Serious Eye Damage Eye Irritation			
		<u>Type</u> Mixture	Days on Site: 365		<u>Temperature</u> Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location SDG&E Plant - Colling Tower	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	SODIUM BISULPHITE (COOLING WATER TREATMENT)	Gallons	1325	700	1000		- Health Skin	SODIUM BISULFITE	40 %	7631-90-5
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>	Corrosion Irritation			
		<u>Liquid</u>	Aboveground Tank, Tank Inside		Ambient					
		<u>Type</u>	Building		<u>Temperature</u>					
		<u>Mixture</u>	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029	SDG&E Plant - Cooling Tower	Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	FERRIC CHLORIDE (Water Purification/Coagulant Product)	Gallons	300	300	150		- Health Acute	FERRIC CHLORIDE	40 %	7705-08-0
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Toxicity			
		Liquid	Tank Inside Building		Ambient		- Health Skin			
		<u>Type</u>			<u>Temperature</u>		Corrosion			
		Mixture	Days on Site: 365		Ambient		Irritation			
							- Health Serious			
							Eye Damage Eye			
							Irritation			
							- Health Hazard			
							Not Otherwise			
							Classified			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location SDG&E Plant - Next to Haz Mat Pad	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	CL 2156 (BOILER WATER MICROBIOCIDE)	Gallons	680	300	500		- Health Skin Corrosion	5-chloro-2-methyl-4-isothiazolin-3-one	1 %	26172-55-4
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>		<u>Waste Code</u> Irritation	Magnesium nitrate	1 %	2682-20-3
		<u>Type</u>			<u>Temperature</u>			Magnesium Chloride	1 %	7786-30-3
		Mixture	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location SDG&E Plant Cooling tower	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	CL 3857 (COOLING WATER TREATMENT ANTISCALENT)	Gallons	2600	1500	1500		- Health Skin Corrosion	2-Phosphono-1,2,4-butane tricarboxylic acid	30 %	37971-36-1
	CAS No 37971-36-1	State Liquid	Storage Container Aboveground Tank	Type Mixture	Days on Site: 365	Pressue Ambient	Waste Code Irritation - Health Hazard Not Otherwise Classified			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location SDG&E Plant N - Transformer Area	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	TRANSFORMER OIL-PCB FREE	Gallons	45469	14631	45269	- Physical	Distillates (petroleum), hydrotreated middle	60 %	64742-46-7	
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	Flammable	Mineral Oil, Petroleum Distillates, Hydrotreated Light Naphthenic	40 %	64742-53-6	
		Liquid	Other		Ambient	- Health Hazard				
		<u>Type</u>			<u>Temperature</u>	Not Otherwise Classified				
		Mixture	Days on Site: 365		Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location SEE SITE MAP	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids)	CAUSTIC SODA	Gallons	825	525	600		- Physical	Sodium hydroxide	97 %	1310-73-2
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>	<u>Pressue</u>	<u>Waste Code</u>		- Corrosive To	Sodium carbonate	3 %	497-19-8
		Liquid	Tank Inside Building	Ambient			- Metal			
		<u>Type</u>	<u>Mixture</u>	<u>Days on Site:</u> 365	<u>Temperature</u>					
DOT: 2.2 - Nonflammable Gases	CEMS CALIBRATION GAS MIXTURE (For NO2 Converter)	Cu. Feet	280	140	210		- Physical Gas	Nitrogen	99 %	7727-37-9
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>	<u>Pressue</u>	<u>Waste Code</u>		- Under Pressure	Nitrogen Dioxide	1 %	✓ 10102-44-0
		Gas	Cylinder	> Ambient			- Health Simple			
		<u>Type</u>	<u>Mixture</u>	<u>Days on Site:</u> 365	<u>Temperature</u>		- Asphyxiant			
DOT: 2.2 - Nonflammable Gases	CEMS CALIBRATION GAS MIXTURE (NO in N2)	Cu. Feet	1680	140	1260		- Physical Gas	Nitrogen	98 %	7727-37-9
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>	<u>Pressue</u>	<u>Waste Code</u>		- Under Pressure	Nitric Oxide	2 %	✓ 10102-43-9
		Gas	Cylinder	> Ambient			- Health			
		<u>Type</u>	<u>Mixture</u>	<u>Days on Site:</u> 365	<u>Temperature</u>		- Aspiration Hazard			
DOT: 9 - Misc. Hazardous Materials	CHILLER REFRIGERANT R-134A	Gallons	165	55	55		- Physical Gas			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>	<u>Pressue</u>	<u>Waste Code</u>		- Under Pressure			
	811-97-2	Liquid	Tank Inside Building, Cylinder, Other	> Ambient						
		<u>Type</u>	<u>Pure</u>	<u>Days on Site:</u> 365	<u>Temperature</u>					
	CT9004 (REVERSE OSMOSIS TREATMENT)	Gallons	600	300	150		- Health Skin	1-Hydroxyethylidene-1,1-diphosphonic acid	7 %	2809-21-4
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>	<u>Pressue</u>	<u>Waste Code</u>		- Corrosion			
		Liquid	Tote Bin	Ambient			- Irritation			
		<u>Type</u>	<u>Mixture</u>	<u>Days on Site:</u> 365	<u>Temperature</u>					
	Ecosafe EHC 46 (ES EHC-46)	Gallons	300	55	100		- Physical	Polyether polyol	99 %	Proprietary
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>	<u>Pressue</u>	<u>Waste Code</u>		- Flammable	Phenothiazine	1 %	92-84-2
	See Description	Liquid	Steel Drum, Other	Ambient						
		<u>Type</u>	<u>Mixture</u>	<u>Days on Site:</u> 365	<u>Temperature</u>					
DOT: 2.2 - Nonflammable Gases	NITROGEN	Cu. Feet	79200	300	1800		- Physical Gas			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>	<u>Pressue</u>	<u>Waste Code</u>		- Under Pressure			
	7727-37-9	Gas	Aboveground Tank, Cylinder	> Ambient						
		<u>Type</u>	<u>Pure</u>	<u>Days on Site:</u> 60	<u>Temperature</u>					
DOT: 2.2 - Nonflammable Gases	OXYGEN (FOR INSTRUMENT CALIBRATIONS)	Cu. Feet	747	249	560		- Physical			
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>	<u>Pressue</u>	<u>Waste Code</u>		- Flammable			
	7782-44-7	Gas	Cylinder	> Ambient			- Physical Gas			
		<u>Type</u>	<u>Pure</u>	<u>Days on Site:</u> 365	<u>Temperature</u>		- Under Pressure			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location SEE SITE MAP	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	Propylene Glycol <small>CAS No 57-55-6</small>	Gallons	300	300	330	440	- Health Hazard Not Otherwise Classified	Propylene Glycol	95 %	57-55-6
		<small>State</small> Liquid	<small>Storage Container</small> Plastic/Non-metalic Drum		<small>Pressue</small> Ambient	<small>Waste Code</small> 133				
		<small>Type</small> Waste	Days on Site: 365		<small>Temperature</small> Ambient					
DOT: 8 - Corrosives (Liquids and Solids) Corrosive, Toxic, Water Reactive, Class 1	Sodium Hydroxide 50% <small>CAS No 1310-73-2</small>	Gallons	580	525	300		- Physical Corrosive To Metal - Health Skin Corrosion Irritation	Sodium Hydroxide Water	50 % 50 %	1310-73-2
		<small>State</small> Liquid	<small>Storage Container</small> Aboveground Tank, Plastic/Non-metalic Drum		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small> Mixture	Days on Site: 365		<small>Temperature</small> Ambient					
DOT: 2.2 - Nonflammable Gases	SULFUR HEXAFLUORIDE (FOR ELECTRIC EQUIPMENT ARC PREVENTION GAS) <small>CAS No 2551-62-4</small>	Cu. Feet	288	288	288		- Physical Gas Under Pressure - Health Acute Toxicity			
		<small>State</small> Gas	<small>Storage Container</small> Cylinder		<small>Pressue</small> > Ambient	<small>Waste Code</small>				
		<small>Type</small> Pure	Days on Site: 365		<small>Temperature</small> Ambient					
DOT: 8 - Corrosives (Liquids and Solids)	SULFURIC ACID, 93% (For Water Treatment pH Control) <small>CAS No</small>	Gallons	14461	13956	10846		- Physical Corrosive To Metal - Health Skin Corrosion Irritation	Sulfuric Acid	93 %	✓ 7664-93-9
		<small>State</small> Liquid	<small>Storage Container</small> Aboveground Tank		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small> Mixture	Days on Site: 365		<small>Temperature</small> Ambient					
	SURFACE-ACTIVE POLYAMINES <small>CAS No</small> Map: See site Map	Gallons	4590	2295	4590		- Physical Corrosive To Metal - Health Skin Corrosion Irritation	No haz pictogram required. see sds		
		<small>State</small> Liquid	<small>Storage Container</small> Tote Bin		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small> Mixture	Days on Site: 365		<small>Temperature</small> Ambient					
	SYNTHETIC LUBRICATING OIL (MOBILE SCH 630) <small>CAS No</small> See Comments	Gallons	110	55	55		- Physical Flammable			
		<small>State</small> Liquid	<small>Storage Container</small> Steel Drum		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small> Pure	Days on Site: 365		<small>Temperature</small> Ambient					
DOT: 8 - Corrosives (Liquids and Solids)	TOLYTRIAZOLE <small>CAS No 64665-57-2</small>	Gallons	1500	1500	1000		- Physical Corrosive To Metal - Health Skin Corrosion Irritation			
		<small>State</small> Liquid	<small>Storage Container</small> Aboveground Tank		<small>Pressue</small> Ambient	<small>Waste Code</small>				
		<small>Type</small> Pure	Days on Site: 365		<small>Temperature</small> Ambient					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029	Chemical Location SEE SITE MAP	CERS ID 10370380 Facility ID 37-000-205398 Status Draft
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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
	TURBINE OIL (CHEVRON GST OIL ISO 32) CAS No See Description	Gallons State Liquid Type Pure	19789 Storage Container Steel Drum, Other Days on Site: 365	6839	19200 Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable - Health Carcinogenicity			
	USED OIL FILTERS CAS No	Pounds State Solid Type Waste	900 Storage Container Steel Drum Days on Site: 365	300	100 Pressue Ambient Temperature Ambient	Waste Code 223	- Physical Flammable - Health Carcinogenicity			
DOT: 3 - Flammable and Combustible Liquids Flammable Liquid, Class I-A	WASTE NATURAL GAS CONDENSATES CAS No 68919-39-1	Gallons State Liquid Type Waste	200 Storage Container Aboveground Tank Days on Site: 365	200	25 Pressue Ambient Temperature Ambient	Waste Code	- Physical Flammable			
	WASTE, MISC USED OIL CAS No	Gallons State Liquid Type Waste	550 Storage Container Steel Drum Days on Site: 365	550	550 Pressue Ambient Temperature Ambient	Waste Code 221	- Physical Flammable - Health Carcinogenicity			
	WASTE, NITRIC ACID/LAB PACKS CAS No	Gallons State Liquid Type Waste	55 Storage Container Fiber Drum Days on Site: 365	55	55 Pressue Ambient Temperature Ambient	Waste Code 791	- Physical Corrosive To Metal - Health Skin Corrosion Irritation			
	WASTE, OILY DEBRIS CAS No	Pounds State Solid Type Waste	800 Storage Container Steel Drum Days on Site: 365	300	100 Pressue Ambient Temperature Ambient	Waste Code 352	- Physical Flammable - Health Carcinogenicity			
	WASTE, OILY WATER CAS No	Gallons State Liquid Type Waste	100 Storage Container Steel Drum Days on Site: 365	55	10 Pressue Ambient Temperature Ambient	Waste Code 223	- Health Carcinogenicity			
	WASTE, PARTS WASHER CAS No	Gallons State Liquid Type Waste	30 Storage Container Other Days on Site: 365	30	1 Pressue Ambient Temperature Ambient	Waste Code 135	- Health Hazard Not Otherwise Classified			

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. SDG&E	Chemical Location Storage Tank NW	CERS ID 10370380
Facility Name SDG&E - PALOMAR ENERGY CENTER 2300 HARVESON, ESCONDIDO 92029		Facility ID 37-000-205398
		Status Draft

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases	AMMONIUM HYDROXIDE (For NOx Reduction in SCR)	Gallons	20000	20000	10000		- Physical	ammonia	20 %	✓ 7664-41-7
	<u>CAS No</u> MIXTURE	<u>State</u> Liquid	<u>Storage Container</u> Aboveground Tank			<u>Pressue</u> Ambient	<u>Waste Code</u> Corrosive To Metal			
		<u>Type</u> Mixture	Days on Site: 365			<u>Temperature</u> Ambient	- Health Acute Toxicity - Health Respiratory Skin Sensitization			



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Attachment 3 – Water Conservation Donation(s)

San Diego Gas & Electric
Palomar Energy Center
2300 Harveson Place
Escondido, CA 92029

Alternate Water Usage History

Start Date	End Date	Total Usage	Conversion Rate	AF
1/1/2019	12/31/2019	10,201,619	.000003069	31.31
Total AF				31.31
Fee per AF				\$ 574.02
Total Payment				\$ 17,971.77

Usage Period = January 2019 - December 2019

Fee amount increased by the change in the Implicit Price Deflator for State and Local Governments as published by the Bureau of Economic Analysis per CEC Order No. 06-0412-02. 2006 Rate = 105.276 2019 Annual Rate = 115.241, change of 9.965.

Check Payable to **The Water Garden and SDCWA** **\$8985.88 Ea.**

Accounting Information:

IO = FE5000002100

CC = 2100-0737

Acct = 6230610

[BEA Link - Implicit Price Deflators for Gross Domestic Product](#)



Jason Dobbs
Generation Compliance Advisor

San Diego Gas & Electric Company
2300 Harveson Place
Escondido, CA 92029-1965
Tel: 760-432-2547
jdobbs@sdge.com

February 20, 2020

Carlos Michelon
Principle Water Resources Specialist
San Diego County Water Authority
4677 Overland Drive
San Diego, CA 92123

Re: Donation for Water Conservation Program

Dear Mr. Michelon:

It is with great pleasure that San Diego Gas & Electric – Palomar Energy Center submits this donation for \$8,985.88 in support of the San Diego CWA's water conservation efforts. We congratulate you on your efforts and encourage you to continue to educate others on the value of conserving water – a precious natural resource.

Sincerely,

Jason Dobbs
Generation Compliance Advisor
San Diego Gas & Electric Company



Jason Dobbs
Generation Compliance Advisor

San Diego Gas & Electric Company
2300 Harveson Place
Escondido, CA 92029-1965
Tel: 760-432-2547
jdobbs@sdge.com

February 20, 2020

Elyssa Robertson
Executive Director
The Water Conservation Garden
12122 Cuyamaca College Drive West
El Cajon, CA 92019

Re: Donation for Water Conservation Program

Dear Ms. Robertson:

It is with great pleasure that San Diego Gas & Electric – Palomar Energy Center submits this donation for \$8,985.88 in support of The Gardens water conservation efforts. We congratulate you on your efforts and encourage you to continue to educate others on the value of conserving water – a precious natural resource.

Sincerely,

Jason Dobbs
Generation Compliance Advisor
San Diego Gas & Electric Company



A  Sempra Energy™ company

Attachment 4 – Water Use Summary

Potable Water Use

Year 2019

Month	Total (Gal/Mo)	Total (AF/Mo)	Max (GPD)	Max (AF/Day)	Min (GPD)	Min (AF/Day)
1	13,728.00	0.04	2,314.00	0.0071	133.00	0.0004
2	9,910.00	0.03	716.00	0.0022	43.00	0.0001
3	29,971.00	0.09	1,796.00	0.0055	502.00	0.0015
4	10,463.00	0.03	636.00	0.0020	45.00	0.0001
5	9,376.00	0.03	1,036.00	0.0032	63.00	0.0002
6	8,666.00	0.03	486.00	0.0015	44.00	0.0001
7	9,847.00	0.03	570.00	0.0017	30.00	0.0001
8	9,535.06	0.03	506.00	0.0016	146.00	0.0004
9	9,320.88	0.03	551.00	0.0017	31.00	0.0001
10	9,048.06	0.03	626.00	0.0019	0.00	0.0000
11	9,419.00	0.03	671.50	0.0021	71.00	0.0002
12	11,448.00	0.04	779.00	0.0024	22.00	0.0001
Total	140,732.00	0.43				
Max			2,314.00	0.007		
Min					0.000	0.0000
Average	11,727.67	0.04				

Recycled Water Use

Year 2019

Month	Total (Gal/Mo)	Total (AF/Mo)	Max (Gal/Mo)	Max (AF/Mo)	Min (Gal/Mo)	Min (AF/Mo)
1	30,006,251.07	92.09	2,596,494.50	7.97	0.00	0.00
2	34,680,974.66	106.43	2,536,711.25	7.78	0.00	0.00
3	7,478,594.06	22.95	2,365,149.00	7.26	0.00	0.00
4	16,722,088.78	51.32	2,044,890.38	6.28	0.00	0.00
5	9,112,973.75	27.97	1,304,457.88	4.00	0.00	0.00
6	26,389,415.27	80.99	2,382,281.50	7.31	0.00	0.00
7	33,165,323.51	101.78	2,629,766.75	8.07	0.00	0.00
8	57,129,723.19	175.32	3,236,941.25	9.93	975,462.31	2.99
9	57,418,720.02	176.21	3,503,077.25	10.75	62,887.83	0.19
10	26,433,245.64	81.12	2,247,140.50	6.90	1.79	0.00
11	34,240,847.15	105.08	2,750,235.00	8.44	24.59	0.00
12	8,983,308.82	27.57	1,265,419.75	3.88	0.00	0.00
Total	341,761,465.91	1,048.83				
Max			3,503,077.25	10.751		
Min					0.000	0.0000
Average	28,480,122.16	87.40				