

DOCKETED

Docket Number:	07-AFC-06C
Project Title:	Carlsbad Energy Center - Compliance
TN #:	231225
Document Title:	Waste Management Plan WASTE-5
Description:	Waste Management Plan for the Demolition of Encina Power Station
Filer:	Anwar Ali
Organization:	Carlsbad Energy Center LLC
Submitter Role:	Applicant
Submission Date:	12/13/2019 3:50:08 PM
Docketed Date:	12/13/2019



December 13, 2019

Mr. George Piantka
Director Regulatory Environmental Service
NRG Energy, Inc., West Region
4600 Carlsbad Boulevard
Carlsbad, California 92008

**SUBJECT: ENCINA POWER STATION/AMENDED CARLSBAD ENERGY
CENTER PROJECT (07-AFC-06C) – APPROVAL OF DEMOLITION PLANS**

Dear Mr. Piantka:

In accordance with the Conditions of Certification, staff has reviewed and approved the following plans:

- Public Notification Process (**NOISE-1**);
- Noise Control Plan (**NOISE-3**);
- Storm Water Pollution Prevention Plan (**SOIL&WATER-1**);
- Non-Potable Water Use Plan (**SOIL&WATER-2**);
- Traffic Control Plan (**TRANS-1**); and
- Waste Management Plan (**WASTE-5**).

If you have any questions or concerns, please contact Anwar Ali, Compliance Project Manager, at (916) 654-5020, or by fax to (916) 654-3882, or via e-mail at anwar.ali@energy.ca.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jonathan Fong".

Jonathan Fong
Compliance Office Supervisor
Siting, Transmission, and Environmental
Protection Division



**NRG Encina Cabrillo I Power
Operations, Inc.**
4600 Carlsbad Blvd.
Carlsbad, CA 92008
Phone: 760-268-4000
Fax: 760-268-4026

October 16, 2019

Mr. Anwar Ali, PhD
Compliance Project Manager
Docket No. 07-AFC-6C
California Energy Commission
1516 Ninth Street, MS2000
Sacramento, CA 95814

**Subject: Encina Power Station (Cabrillo Power I LLC) Demolition Carlsbad Energy Center -
DOCKET NO. 07-AFC-06C
Condition of Certification – WASTE-5 Demolition Waste Management Plan**

Dear Dr. Ali:

NRG Energy, Inc. (Project Owner) submits the attached revised Demolition Waste Management Plan (Plan) to the Compliance Project Manager (CPM) in compliance with Condition of Certification (COC) WASTE-5 on behalf of Cabrillo Power I LLC, owner of Encina Power Station (Encina) located at 4600 Carlsbad Boulevard, Carlsbad, California for the Amended Carlsbad Energy Center Project (Amended CECP), Docket No. 07-AFC-06C. The CECP license includes requirements to decommission and demolish Encina.

COC WASTE-5 requires that the Project Owner provide a Plan for all wastes generated during demolition and construction. WASTE-5 requires submittal of the Plan to the California Energy Commission CPM for review and approval. The COC permits Project Owner to submit the Plan in two sections. This submittal addresses demolition activities associated with the Amended CECP. Project Owner will submit the construction activities section at a later date.

If you have any questions regarding this submittal, please contact George Piantka at (760) 707-6833 or Ralph Wagner at (916) 230-5861.

Sincerely,

A handwritten signature in black ink that reads "George L. Piantka". The signature is written in a cursive, flowing style.

George L. Piantka,
Sr. Director, Environmental
NRG Energy, Inc.

Enclosures: Demolition Waste Management Plan, Encina Power Station Demo, Condition of Certification, WASTE-5, October 2019

Cc: File

Demolition Waste Management Plan Encina Power Station



Revision 1
10/10/2019

TABLE OF CONTENTS

		<u>Page No.</u>
1.0	OVERVIEW.....	1-1
1.1	Introduction.....	1-1
1.2	Plan Overview.....	1-1
1.3	Project Location and Description.....	1-1
2.0	WASTE CHARACTERIZATION.....	2-1
3.0	GENERAL WASTE MANAGEMENT	3-1
3.1	Containment/Storage.....	3-1
3.2	Waste Storage Time Limit.....	3-1
3.3	Labels.....	3-1
3.4	Inspections	3-1
3.5	Security/Emergency Response.....	3-2
3.6	Employee Training.....	3-2
4.0	HAZARDOUS WASTE TRANSPORTATION.....	4-1
4.1	Shipping Documentation	4-1
4.1.1	Department of Transportation Requirements.....	4-1
4.1.2	Transformer or Lubricating Oil	4-1
4.1.3	Shipping Name.....	4-1
4.1.4	Packaging, Marking, and Labeling	4-2
4.1.5	Placards	4-2
4.2	Transporter Requirements.....	4-2
4.2.1	Spill Reporting.....	4-3
4.2.2	Spill Response.....	4-3
5.0	DISPOSAL OF WASTE STREAMS.....	5-1
5.1	Debris and Solid Waste.....	5-1
5.2	Non-RCRA Hazardous Waste	5-1
5.3	Hazardous Waste	5-1
6.0	RECORD KEEPING.....	6-1

Appendix A 6-1– HAZARDOUS MATERIALS & WASTE CONTINGENCY PLAN

1.0 OVERVIEW

1.1 Introduction

Cabrillo Power I LLC (Project Owner) has prepared this Demolition Waste Management Plan (WMP) for the Encina Power Station Abatement and Demolition Project (Project). This Demolition WMP has been prepared in accordance with Conditions of Certifications (COC) WASTE-5 in the California Energy Commission's (CEC) Final Decision dated August 3, 2015 for the Amended Carlsbad Energy Center Project (ACECP) (07-AFC-06C).

The purpose of the Demolition WMP is to identify proper characterization and mitigation of all materials, monitoring and compliance measures related to the COC WASTE-5. This Demolition SMP has been prepared to address the abatement and demolition activities at the Encina Power Station.

1.2 Plan Overview

This Demolition WMP addresses the management, recycling, and disposal requirements for wastes that are anticipated to be generated during abatement and demolition activities. The Demolition WMP describes the proper characterization of all materials generated and the storage, transportation, recycling or disposal methods of these materials. The objective for solid waste management is to meet or exceed the waste diversion goals established by the Integrated Waste Management Compliance Act (Pub. Resources Code, 41780 et seq) and CALGreen Title 24, California Code of Regulations, Part 11 Sections 4.408, 5.408, 301.1.1 and 301.3).

1.3 Project Location and Description

The Encina Power Station is located at 4600 Carlsbad Blvd, Carlsbad, CA 92008. The property is located in Township 12 South, Range 4 West, Section 7, in San Diego County. The Encina Power Station is an eight-story power plant with five (5) retired steam units (Units 1-5) and one retired combustion turbine (CT), also natural gas-fired. The plant was commissioned starting in 1954 and reached its capacity in 1978 of 965 megawatts (MW) with the commissioning of Unit 5 and completion of a single, 400-foot tall common stack.

The Project includes the asbestos abatement, decommissioning, and demolition of all machinery, associated auxiliary plant and yard equipment, and structures and appurtenances associated with the Encina Power Station. This Project includes the materials and waste management, transport, recycling, and disposal of materials associated with these structures. These materials may include universal wastes, ballast, mercury-containing devices, lubricating and transformer oils, chemicals, and gases.

A Regulated Materials Assessment (RMA) was conducted at the Encina Power Station which included the identification and quantification of hazardous materials, universal wastes, and other regulated

materials/wastes. This Demolition WMP is limited to the wastes encountered or generated during the abatement and demolition of the Encina Power Station.

Table 1-1 identifies the anticipated wastes to be generated during the demolition and abatement activities of the Encina Power Station.

Table 1-1: Estimated Wastes Generated During Demolition and Abatement

Waste	Origin	Composition	Estimated Quantity	Classification	Disposal
Scrap wood, glass, plastic, insulation	Demolition of piping, structure, tank and equipment	General Construction Waste	1,500 tons (life of project)	Nonhazardous	Recycle and/or dispose of in a Class II or Class III landfill
Scrap metals	Demolition of equipment, piping, and structures	Metal	34,000 tons (life of project)	Nonhazardous	Recycle and/or dispose
Concrete (less than 50 parts per million [ppm] of PCBs)	Throughout plant	Concrete	31,000 cubic yards (life of project)	Nonhazardous	Recycle onsite
Concrete (more than 50 ppm of PCBs)	Turbine deck	Caulk	500 linear feet	Hazardous	TSCA landfill
Spent welding and cutting materials	Construction	Solid	5 pounds per month	Nonhazardous	Recycle with vendors. If hazardous, dispose at a Class I landfill
Used and waste oil	Transformer draining	Hydrocarbons	100 gallons per month	Hazardous	Recycle at a treatment, storage, and disposal facility (TSDF)
Oily rags, oil sorbent excluding lube oil flushes	Cleanup of small spills	Hydrocarbons	5 pounds per month	Hazardous	Recycle or dispose at a permitted TSDF
Spent lead acid batteries	Construction equipment, trucks	Heavy metals	2.5 batteries per year	Hazardous	Store no more than 10 batteries (up to one year) then recycle offsite
Asbestos waste	Demolition of unabated areas throughout plant	Asbestos	2,700 tons (life of project)	Hazardous	Dispose in a licensed and permitted landfill.
Sanitary waste	Portable toilet holding tanks	Sewage	30 gallons per day	Nonhazardous liquid	Removed by contracted sanitary service
Stormwater	Rainfall	Water	2 acre-feet (from 10-year storm event) ^a	Nonhazardous liquid	Discharge to Ocean via Construction Stormwater Permit Limit(s)

^a Calculated from Orange County Hydrology Manual for 10-year storm event

TSCA = Toxic Substances Control Act

TSDF = treatment, storage, and disposal facility

The following wastes may be encountered or generated during abatement and demolition activities at the Encina Power Station:

- Solid waste and debris:
 - General construction waste such as scrap wood, glass, paper, insulation; non-hazardous, non-metal portions of the tanks which cannot be recycled, non-asbestos insulation, spent welding and cutting materials, waste oil fillers from construction equipment and vehicles, etc.
 - Inert construction debris including concrete/gunite material on intermediate berm walls
 - Trash/municipal waste generated by the demolition crew
 - Scrap metal - structural steel, metallic piping, equipment internals, and other recyclable metallic materials generated from demolition activities at the Encina Power Station
 - General debris
- Hazardous waste – lead and/or asbestos containing material resulting from abatement activities, used and waste lube oil, oily rags, and spent lead acid batteries from construction vehicles
- Universal waste – fluorescent light fixtures, batteries, and electronic devices
- Liquid waste – sanitary waste from portable toilets and accumulated storm water

2.0 WASTE CHARACTERIZATION

Hazardous and/or regulated waste that requires abatement, such as lead based paint and asbestos containing materials, and universal wastes have been identified in the RMA conducted in June 2019. Any hazardous wastes generated during abatement activities will be handled and managed for proper disposal.

Waste characterization information for hazardous wastes (such as asbestos and lead waste) will be documented on a waste profile form provided by the designated offsite treatment, disposal, or recycling facility as part of the waste acceptance process. The profile will be reviewed and signed by the Project Owner. Signed profile(s) will be submitted to the facility for acceptance.

Additional information may be required by the facility including but not limited to:

- Generator information such as name, address, contact, and phone number
- Site name including street/ mailing address
- Process generating waste
- Source of waste stream
- Analytical data (if applicable)
- Waste composition
- Physical state of waste
- Hazardous waste code (if applicable)
- Department of Transportation (DOT) shipping description

A copy of the waste identification profile which has been approved by Cabrillo Power I LLC must be received by the demolition contractor prior to scheduling disposal transportation. Also, final waste disposal landfill or facility must be pre-approved by Cabrillo Power I LLC prior to shipping of waste.

3.0 GENERAL WASTE MANAGEMENT

Wastes will be stored in an area approved by the Project Owner. All containers that are used to store hazardous waste will be inspected on arrival at the site for signs of disrepair or contamination, and to verify that the containers are empty. If a container does not arrive in good condition, is contaminated, or is not empty, it will be immediately rejected and documented.

3.1 Containment/Storage

Solid wastes shall be stored in dumpsters or roll-off containers prior to removal. Scrap metal will be placed in storage piles, roll-off boxes, or directly loaded into dump trailers and trucks.

3.2 Waste Storage Time Limit

Hazardous wastes will be removed from the site within 90 days from date of generation. Other wastes will be removed from the site as quickly as possible. The date of generation for each specific waste is defined as the day that a waste is first placed in a container (drum, roll-off box, or portable tank) or stockpile.

3.3 Labels

Hazardous waste containers will be labeled in accordance with 22 California Code of Regulations (CCR) 66262.34 and Title 49 Code of Federal Regulation (CFR) Part 172. Labels will include the type of waste, location from which the waste was generated, and accumulation start date. Containers used to store/accumulate waste will include one of the following labels:

- “Analysis Pending” or “Waste Material” - Temporary or handwritten label until analytical results are received and reviewed. This label will include the accumulation start date.
- “Hazardous Waste” – for RCRA and non-RCRA hazardous waste. Pre-printed hazardous waste labels with the following information:
 - Accumulation start date
 - Generator Name and address
 - Environmental Protection Agency (EPA) identification number
 - Waste codes
 - DOT shipping description
 - Waste specific information (composition and physical state and hazardous properties of the waste)
 - Prior to transport, a manifest number must be added

3.4 Inspections

Although not anticipated during demolition, waste accumulation and equipment storage areas will be inspected at least weekly for malfunctions, deterioration, discharges, and leaks that could result in a release.

- Containers, portable tanks, and roll-off containers will be inspected for leaks, signs of corrosions, or signs of general deterioration
- Stockpiles will be inspected for liner and berm integrity
- All areas will be inspected to ensure that good housekeeping practices are maintained
- Labels will be inspected and relabeled if necessary, to maintain legibility

If deficiencies are present, they will be corrected immediately, and the corrective measures shall be documented. Appropriate measures may include transfer of waste from leaking container to new container, replacement of liner or cover, or repair of containment berm. Copies of inspection reports and corrective measures will be maintained onsite, and available for review.

3.5 Security/Emergency Response

If necessary, a barrier, such as barricade tape or temporary fencing, will be provided for hazardous waste accumulation areas, and for other waste storage areas that are accessible to the general public. Hazardous waste storage areas will also have signs that provide 24-hour emergency contacts and telephone numbers. Waste accumulation areas will contain emergency response equipment appropriate to the wastes' hazards.

In the event of emergency, a planned course of action is outlined in the Hazardous Materials & Waste Contingency Plan (included in Appendix A). The Health and Safety Plan shall comply with the project emergency response procedures and equipment identified in the Hazardous Materials & Waste Contingency Plan and include emergency response contacts and phone numbers. Project Owner will contact regulatory agencies and initiate reporting obligations. In addition to the Health and Safety Plan procedures, hazardous waste accumulation areas will be provided with fire extinguishers (for wastes known or suspected to be flammable or ignitable), decontamination equipment, and an alarm system (if radio equipment is not available to all staff working in accumulation area). Spill control equipment (e.g., sorbent pads) will be available in the waste accumulation areas, and where liquids are transferred from one vessel to another.

3.6 Employee Training

Field staff that will manage hazardous or potentially hazardous waste will comply with 22 CCR 66265.16 and have the following training:

- Occupational Safety and Health Administration 1910.120 HAZWOPER training, and
- On-the-job training which includes:
 - Site-specific Hand Safety Plan review – requires each site workers and guests to review and sign the plan
 - Activity Hazard Analysis and daily “tailgate” meetings
 - Project specific Work Plan

4.0 HAZARDOUS WASTE TRANSPORTATION

4.1 Shipping Documentation

Prior to offsite disposal of any hazardous waste, a waste approval package for each waste stream will be prepared. This package will include a waste profile including the generator of the waste, analytical summary table(s) applicable to the waste, a completed waste manifest, and any other applicable information necessary for the Project Owner to complete its review of the disposal package and signature as the generator. The signed profile will then be submitted to the offsite facility for acceptance and approval. Once the approval letter is received from the offsite facility, transportation can be scheduled.

Each load of hazardous waste will be manifested prior to leaving the site. Additionally, each shipment of hazardous waste will also have a weight ticket.

The generator and the transporter must sign the manifest prior to the load of waste leaving the site.

The original signed manifest will be returned to the address of the generator.

If the signed hazardous waste manifest from the designated facility is not received within 35 days, the generator must contact the transporter or the designated facility to determine the status of the waste. If the signed hazardous waste manifest has not been received within 45 days, the generator must issue an "Exception Report" to the California Department of Toxic Substance Control, as required under 22 CCR 66262.42(b).

4.1.1 Department of Transportation Requirements

Requirements under 49 CFR 171 will apply to all offsite shipments of hazardous materials. The information contained in this section is provided as a general guide. Requirements specific to each hazardous material will be determined in the field. It is the responsibility of a DOT-trained individual to ensure that the requirements of 49 CFR 171-178 are met.

4.1.2 Transformer or Lubricating Oil

Transformer and/or lubricating oil samples shall be collected where current PCB concentrations are not known. Samples shall be submitted under chain-of-custody procedures to a California ELAP certified laboratory and analyzed for PCBs using extraction method 3540C followed by analysis using EPA Method 8082. All chains of custody and reporting shall reference Cabrillo Power I LLC.

4.1.3 Shipping Name

Material that exhibits one of the nine DOT hazard class characteristics (e.g., explosive, flammable, poison, combustible) is regulated under DOT rules for the transportation of hazardous material. If material is suspected to be hazardous, it will be shipped under the suspected hazard class.

Each shipment of a suspected hazardous material will be properly classified using the Hazardous Materials Table in 49 CFR 172.101. All determinations will be made by DOT-trained personnel.

4.1.4 Packaging, Marking, and Labeling

The shipping name, hazard class, identification number, technical names (if applicable), EPA markings and waste code numbers, and consignee/consignor designations will be marked on packages for shipment (49 CFR 172.301). Once a waste is characterized, the appropriate label will be determined from the Hazardous Materials Table in 49 CFR 172.101.

4.1.5 Placards

Appropriate placards will be determined by DOT-trained personnel. Specific placard descriptions are found starting at 49 CFR 172.519. If a placard is required, it will be affixed on each side and each end of the vehicle if not provided by the transporter.

4.2 Transporter Requirements

Each transportation vehicle and load of waste will be inspected prior to leaving the site. Inspections will be documented. The inspector will verify that the driver holds a commercial driver's license appropriate for the class of vehicle being driven with a hazardous materials endorsement. The quantities of waste leaving the site will be recorded daily. A contractor licensed for commercial transportation will transport non-hazardous wastes and a valid California transporter Identification number. In the event that wastes are hazardous, the transporter will have an EPA Identification number, and will comply with transportation requirements outlined in 49 CFR 171-179 (DOT), and 22 CCR Division 4.5, Chapter 13.

The transporter will be responsible for weighing loads at the onsite certified scale. For each load of material, weight measurements will be obtained for each full and empty container, dump truck, or tanker truck. Disposal quantities will be based on the difference of weight measurements between the full and empty container, or dump truck. Weights will be recorded on the waste manifest.

The transporter will observe the following practices when hauling and transporting wastes offsite:

- Minimize impacts to general public traffic
- Repair road damage caused by construction and/or hauling traffic
- Line and cover trucks/trailers used for hauling hazardous or regulated waste to prevent spills or releases
- Decontaminate vehicles prior to re-use, other than hauling contaminated waste
- Seal trucks transporting liquids
- Wastes or materials from other projects may not be combined with wastes generated during the project.

All personnel involved in offsite disposal activities will follow safety and spill response procedures outlined in the Health and Safety Plan.

4.2.1 Spill Reporting

In the event of a spill or release of waste, the transporter must immediately notify the Project Owner. The following information about the spill will be reported and recorded:

- Type of material (for example soil, sludge, or water) and contaminant
- Location
- Estimated volume
- Media affected (for example spilled on concrete pad or soil)
- Time of the spill and/or release
- Final disposal of spilled material

The transporter will also report any spill or release of hazardous waste, as required by 49 CFR 171.15, to the National Response Center (NRC) at 800-424-8802 or 202-426-2675. The transporter will also report in writing, as required by 49 CFR 171.16, to the Director, Office of Hazardous Materials Regulations, Materials Transportation Bureau, Department of Transportation, Washington, D.C. 20590.

For any spill of hazardous wastewater from a bulk shipment, the transporter will immediately notify the NRC (800-424-8802 or 202-267-2675), as required in 40 CFR 263.30.

4.2.2 Spill Response

The transporter will clean up any spill or release of waste (including soil or water) that occurs during transportation or take such action as may be required or approved by federal, state, or local officials. Spilled waste will be immediately cleaned up, including soils on the outside of the trucks, the truck and/or container, or road surface. When appropriate, the spilled material will be returned to the original waste container. In any case, the spilled material will be properly contained and disposed.

5.0 DISPOSAL OF WASTE STREAMS

Offsite treatment, disposal, or recycling facilities will use the waste profile and supporting documentation (i.e., analytical data) to determine whether a waste will be accepted. This section summarizes wastes and anticipated treatment, disposal, or recycling requirements for the Amended CECP.

5.1 Debris and Solid Waste

- Scrap metal, piping, and other demolition debris will be recycled if appropriate or will be transported to a permitted Class III landfill or a permitted Construction and Demolition Landfill
- Uncontaminated asphalt, general debris, and office trash will be recycled or disposed of as municipal solid waste
- Concrete and gunite material will be recycled onsite per state and county requirements
- The offsite facility will be responsible for providing a copy of the bill of lading and accounting of treatment, disposal, or recycling for each load of waste received
- The objective for debris and solid waste management will be to meet or exceed 70 percent recycling of materials
- The planned recycling facility will be SA Recycling facility located at 10313 South Alameda, Los Angeles, California. Other facilities can be suggested by the Demolition Contractor, however shall not be used unless written approval is granted by Owner.

5.2 Non-RCRA Hazardous Waste

In the event that non-RCRA hazardous waste is generated, it will be transported to a facility permitted to accept the material in the state of California.

The planned disposal facility for non-RCRA liquid hazardous waste is DeMenno/Kerdoon located at 2000 N. Alameda Street, Compton, California. Non-RCRA solid hazardous wastes will be disposed of at the South Yuma County Landfill, located at 19536 South Avenue 1E, Yuma, Arizona. Other facilities can be suggested by the Demolition Contractor, but cannot be used until formal written approval from Cabrillo Power I LLC has been received.

5.3 Hazardous Waste

In the event that RCRA hazardous waste is generated, it will be transported offsite for treatment or disposal as follows:

- Hazardous waste that meets the land disposal (LDR) treatment standards will be transported to a permitted hazardous waste facility for disposal.
- Hazardous wastes that do not meet LDR treatment standards will be sent to an offsite facility for treatment.
- All facilities that receive hazardous waste for treatment (incineration or other treatment) and/or disposal will be permitted under RCRA.

6.0 RECORD KEEPING

The following records and documents will be maintained by the Contractor. The Contractor will be required to submit copies of weigh tickets/disposal receipts, certificates of destruction, and fully executed manifest copies for all Wastes. All such copies shall be issued to the Contractor within 48 hours of transport. Additional records will also be maintained by the Contractor and submitted to the Project Owner. These include:

- Transportation and offsite disposal records, including:
 - Profiles and associated characterization data
 - LDR notification/certifications
 - Offsite facility waste receipts, certificates of disposal/destruction
 - Offsite facility receipts of recycled material
- Training records
- Inspection records
- Agency communications/notifications

**APPENDIX A – HAZARDOUS
MATERIALS & WASTE
CONTINGENCY PLAN**



Hazardous Materials & Waste Contingency Plan

Cabrillo Power I LLC


Encina Power Station
4600 Carlsbad Boulevard
Carlsbad, California 92008

July 29, 2019

Plan Certification:

Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete, and that a copy is available on site.

Name: Jerry L. Carter
Title: Plant Manager

Signature:  Date: 7/30/2019

Cabrillo Power I LLC

By: NRG Cabrillo Power Operations, Inc.
It's Authorized Agent



Table of Contents

Section 1 Introduction..... 1

 1.1 Plan Copies and Arrangements with Local Authorities.....1

 1.2 Plan Amendments.....1

Section 2 Facility Description 3

 2.1 Operations.....3

 2.2 Security3

Section 3 Emergency Equipment 4

Section 4 Emergency Coordinator 8

 4.1 Emergency Coordinators8

 4.2 Alternate Emergency Coordinator8

 4.3 Duties of the Emergency Coordinator8

 4.4 Written Incident Reports.....10

Section 5 Emergency Procedures 11

 5.1 Emergency Priorities11

 5.2 Reporting Emergencies11

 5.3 Relations with Press, Fire and Police Departments.....11

 5.4 Emergency Organization and Responsibilities12

 5.4.1 Emergency Coordinator 12

 5.4.2 Incident Commander 12

 5.4.3 Plant Manager..... 12

 5.4.4 Maintenance Manager..... 12

 5.4.5 Operations Manager **Error! Bookmark not defined.**

 5.5 Evacuation.....13

 5.5.1 Evacuation Reporting Areas..... 13



Hazardous Materials & Waste Contingency Plan

5.6	Fire	14
5.7	Earthquake	15
5.7.1	Site Personnel	15
5.7.2	Incident Commander	15
5.8	Injuries or Illness	15
5.8.1	Emergency Injury or Illness	15
5.8.2	Minor Injuries or Illness	16
5.8.3	Chemical or Ammonia Exposure First Aid.....	16
5.8.4	Non-Industrial Illness	16
5.8.5	Injuries to the Public	16
5.8.6	Incident Communications	17
5.9	Hazardous Material Spills or Threatened Releases	17
5.9.1	Incidental Spills	17
5.9.2	Emergency Spills	17
5.9.3	Ammonia Release	18
5.9.4	Natural Gas Leak	18
5.10	Bomb Threats	19
5.11	Motor Vehicle Accidents	19
5.12	All Other Emergencies	20
	Section 6 Training	21

Attachments:

Appendix A Emergency Notification Phone List & Spill Release Notification Form



Section 1 Introduction

The Hazardous Materials & Waste Contingency Plan (the Plan) establishes a planned course of action in the event of an emergency at the Encina Power Station (EPS or Station) to minimize hazards to human health or the environment from fires, explosions, earthquake, threat of violence, unplanned release of oil or hazardous materials to air, soil, or surface water, or other potential emergencies. The Plan is specifically intended to satisfy the standards for emergency response plans as noted below:

- Contingency Plan and Emergency Procedures, as applicable, to large quantity hazardous waste generators (22 California Code of Regulations [CCR] Division 4.5, Chapter 15, Article 4);
- Emergency Action Plan (8 CCR 3220);
- Hazardous Material Release Reporting, Inventory and Response Plans (19 CCR, Division 2, Chapter 4);
- Spill Prevention Control and Countermeasures (SPCC) Plan for oil (40 CFR 112.7(3)), as applicable, to discharge discovery, response, and cleanup;
- Storm Water Pollution Prevention Plan (SWPPP), as applicable, to spill cleanup to prevent the discharge of pollutants.
- Emergency response actions beyond the capabilities of plant personnel will be deferred to the local emergency response agencies.

Plan Copies and Arrangements with Local Authorities

Copies of this Plan are maintained onsite in the Administration Building and the Operator Control Rooms.

This Plan has been submitted to the San Diego County Department of Environmental Health (DEH) through the California Environmental Reporting System (CERS), to the Carlsbad Police and Fire Departments, and the local emergency hospital (Tri-City Hospital) and EPS maintains an extended open invitation to these organizations to visit or inspect EPS. The Carlsbad Fire Department and the San Diego County Department of Environmental Health will provide emergency response to EPS in the event of a hazardous materials incident.

Plan Amendments

This Plan will be reviewed by the Emergency Coordinator, and immediately amended, if necessary, whenever:

- Applicable regulations are revised.
- The Plan fails in an emergency.



Hazardous Materials & Waste Contingency Plan

- The facility changes in a way that materially increases the potential for fires, explosions, or releases of hazardous materials or waste or their hazardous constituents, or changes the response necessary in an emergency.
- The list of emergency coordinators changes.
- The list of emergency equipment changes.

The facility Emergency Coordinator will be responsible for ensuring that revisions are incorporated into all copies of the Plan. Table 1 provides a summary history of plan amendments.

Table 1. Plan Amendment History

Date	Section(s) Changed or Amended	Initials
9/26/2001	General	KM
1/15/2002	Pages 5, 8, 10	KM
4/24/2007	Names and Phone Numbers	KM
6/15/2009	Names and Phone Numbers	KM
2/22/2013	Ammonia (NH ₃) tank capacity updated; NH ₃ Emergency Response updated; Added training elements; updated contacts and phone numbers; revised obsolete fire-fighting and communication equipment; removed references to wastewater treatment, fuel oil, mercury, and diesel oil as necessary	SH (E2)
1/09/2016	Major revision for removal of fuel oil from site and Office of Spill Prevention and Response (OSPR)-related emergency response requirements, spill response contractor, NH ₃ Emergency Response	SH (E2)
3/31/2017	Names and Phone Numbers	RG
7/29/2019	Names and Phone Numbers; Removed RMP (NH ₃) references; removed fire fighting equipment removed due to decommissioning;	TS



Section 2 Facility Description

Operations

The EPS is manned 24 hours a day, operating only as a seawater pumping operation, using one operator. There is one control room from which associated equipment is controlled. It provides a central point for directing critical plant operations as well as the capability to startup and shutdown numerous systems. During weekdays, there is also an onsite maintenance contractor with sufficient resources and training to minimize equipment failures that may lead to hazards to human health or the environment.

Descriptions of the oil and hazardous materials handled at EPS and the spill prevention controls are detailed in the following EPS plans:

- SPCC Plan;
- SWPPP

Security

EPS is manned 24 hours a day by operators in the Control Rooms and a security guard. EPS is completely fenced in. There is also a phone at the Main Gate, which is operated 24 hours a day. The Station is sufficiently illuminated at night to maintain the ability to detect any leaks or spills.

The on-duty operators have a complete set of keys for the facility. The Security Guard also has keys for the main areas that require entry.



Section 3 Emergency Equipment

Tables 2 through 6 identify the emergency equipment that is maintained at EPS.

Table 2. Internal Communications and Alarms

Location	Description	Capabilities	Test Frequency
EPS Phones (Dial 6000)	PA System/microwave phones	Audible on plan property.	Daily use
Push buttons at Control Rooms (or dial 6911)	EPS Plant Alarm.	Warning horn (audible on property).	Weekly
Control Room	Control Room alarms: <ul style="list-style-type: none">• Fire detection, suppression system or pull alarm activation• Safety shower flow• Annunciator panel checks	High and low operating condition alarms that indicate an upset condition	Weekly



Hazardous Materials & Waste Contingency Plan

Table 3. External Communications

Description	Location	Capabilities	Test Frequency
Telephones (landlines)	All EPS Phones	Internal extensions Dial "9" for external line	Daily Use
Radios 450 MHz (16 each)	Each operator and various EPS locations	Radio communications with 5-mile radius	Weekly
Cell phones	Cell phones	Normal cell phone capabilities	Daily Use
Computers / Smart Phones	Throughout offices, Control Rooms, Security	Monitor internet for regional information Reporting (email)	Daily Use

Table 4. Fire Fighting Equipment

Description	Location	Capabilities	Test Frequency
Fire Extinguishers, carbon dioxide (CO ₂), dry chemical extinguishers, and foam type	Various EPS locations (~ 235)	Size I and Size II fire extinguishers.	Monthly



Hazardous Materials & Waste Contingency Plan

Table 5. First Aid Supplies

Description	Location	Capabilities	Test Frequency
Emergency eye wash and shower (plumbed)	<ul style="list-style-type: none">• Demineralizer room• CW deck• Chemical mixing stations• Reverse Osmosis Skids	Eye and body shower; Alarms at Control Room when used	Weekly
Emergency eye wash (reservoir)	Hazardous Materials Storage Area	Reservoir type emergency eye wash	Annually
First aid kit	<ul style="list-style-type: none">• Control Room 3&4• Maintenance Shop• Machine Shop• I&E shop• Administration Bldg.• Security (Main Gate)	General first aid for minor injuries or until help arrives	Monthly



Hazardous Materials & Waste Contingency Plan

Table 6. Spill Control Equipment

Description	Location	Capabilities	Test Frequency
Absorbents, shovels, rakes, clean 55-gallon drums.	Storeroom & Spill Control Equipment Shed	Liquid flow containment, absorption and spill cleanup.	1,000# min.; 1 bail min.; 6 drums min.
Emergency eye washes and showers	<ul style="list-style-type: none"> • Demineralizer room • CW deck • Chemical mixing station • Aqueous ammonia tank and SCR Vaporizers • Reverse Osmosis Skid 	Alarms at Control Room when used	Tested weekly
Heliport	North End of EPS	Life Flight, etc.	Kept Available
Safety protective gear: respirators, gloves, face shields, suits, etc.	Storeroom Building	Key available from Shift Supervisor.	Maintained Daily
Secondary containment for liquid spills	See SPCC and SWPPP for specifics: <ul style="list-style-type: none"> • Container spill trays and spill pallets Power Plant • Tank secondary containment structures • Power Plant Building basement, sumps and Wastewater Treatment Tanks 	Secondary containment for leaks and spills sufficient until cleaned up	Inspected Monthly



Section 4 Emergency Coordinator

In the event of a release of a hazardous material or waste, or any hazardous waste emergency, the Emergency Coordinator will be notified immediately. At all times, an Emergency Coordinator will be at EPS or on call. If the designated Emergency Coordinator is not available, the alternate Emergency Coordinators will be notified in the order of listing.

The Emergency Coordinator and the Alternate Emergency Coordinator are familiar with all aspects of the Contingency Plan, all operations and activities at the facility, the location and characteristics of the material or waste handled, and the location of all records within the facility and the facility layout.

Emergency Coordinators

Name: Timothy Sisk
Title: Manager - Environmental
Office Address: 4600 Carlsbad Boulevard, Carlsbad, CA 92008
Work Phone: (760) 930-1507
Cell Phone: (860) 334-8081

Name: Jerry L. Carter
Title: Plant Manager
Office Address: 4600 Carlsbad Boulevard, Carlsbad, CA 92008
Work Phone: (760) 268-4011
Cell Phone: (760) 535-3890

Alternate Emergency Coordinator

Name/Title: On-Duty Operator (24 hours a day)
Office Address: 4600 Carlsbad Boulevard, Carlsbad, CA 92008
Phone: (760) 268-4062

Duties of the Emergency Coordinator

The Emergency Coordinators are thoroughly familiar with all aspects of this Plan, operations and activities at the facility, and EPS procedures and plans for hazardous materials, oil, and waste. The Emergency Coordinators have the authority to commit the resources to carry out this Plan.



Hazardous Materials & Waste Contingency Plan

Whenever there is an imminent or actual emergency situation, the Emergency Coordinator (or his/ her designee when the Emergency Coordinator is on call) must immediately:

- Activate the EPS emergency alarm or communication systems, as needed, to notify all facility personnel.
- Notify emergency response units (fire, police, and paramedics) with designated response roles if their help is needed.

Whenever there is a release, fire, or explosion, the Emergency Coordinator must immediately identify the character, exact source, amount, and the real extent of any released materials. The Emergency Coordinator may do this by observation or review of facility records or manifests and, if necessary, by requesting a chemical analysis.

Concurrently, the Emergency Coordinator must assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment must consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic irritants, or asphyxiating gasses that are generated, or the effects of any hazardous surface runoffs from water or chemical agents used to control fire and heat-induced explosions).

If the Emergency Coordinator determines that the facility has had a release, fire, or explosion, which could threaten human health, or the environment outside the facility, they must report their findings as follows:

- If their assessment indicates that evacuation of local areas may be advisable, he/ she must immediately notify the appropriate emergency response units.
- He/she must be available to help appropriate officials decide whether local areas should be evacuated.
- He/she must immediately notify the appropriate agencies as listed in the Emergency Notification Phone List and using the Spill Response Notification Form in Appendix A. The notification must include the following:
 - Name and telephone of reporter
 - Name and address of facility
 - Time and type of incident
 - Name and quantity of material(s) involved, to the extent known
 - The extent of injuries, if any
 - The possible hazards to human health, or the environment outside the facility
- If the Emergency Coordinator makes above notification, a written copy of the notification must be forwarded to the appropriate agency(ies).



Hazardous Materials & Waste Contingency Plan

During an emergency, the Emergency Coordinator must take all responsible measures necessary to ensure that fires, explosions and releases do not occur, recur, or spread to other hazardous material or waste at the facility. These measures must include, where applicable, stopping processes and operations, collecting and containing released material or waste, and removing or isolating containers.

If the facility stops operations in response to a fire, explosion, or release, the Emergency Coordinator must monitor for leaks, pressure buildup, gas generation or ruptures in valves, pipes or other equipment wherever this is appropriate.

Immediately after an emergency, the Emergency Coordinator must provide for treating, storing or disposing of recovered material or waste, contaminated soil, surface water, or any other material that results from a release, fire or explosion at the facility.

The Emergency Coordinator must ensure that, in the affected area(s) of facility:

- No material or waste that may be incompatible with the released material can be handled until procedures are completed.
- All emergency equipment listed in the Contingency Plan is cleaned and fit for its intended use before operations are resumed.

Prior to the facility resuming operation after an emergency that involved a hazardous waste, the Emergency Coordinator will notify the San Diego County DEH and, if needed, the Department of Toxic Substances Control (DTSC), that EPS is in compliance with the provision above.

Written Incident Reports

As required after the incident, the Emergency Coordinator shall submit a written report on the incident to the appropriate agencies such as the San Diego County DEH and the San Diego Regional Water Quality Control Board (RWQCB). This report will be prepared in consultation with the Emergency Coordinator and shall include:

- Name, address and telephone number of the owner or operator.
- Name, address and telephone number of the facility.
- Date, time, and type of incident.
- Name and quantity of material(s) involved.
- The extent of the injuries, if any.
- An assessment of actual or potential hazards to human health or the environment, if applicable.
- Estimated quantity and disposition of recovered material that resulted from the incident.



Section 5 Emergency Procedures

Emergency Priorities

At no time during an emergency or otherwise will the standard emergency priorities be altered. They are:

- Safety of personnel first and foremost
- Safety of the environment from potential pollution
- Safety of equipment
- Continuity of service

EPS PERSONNEL SHALL TAKE NO ACTIONS WHICH CAUSE UNSAFE OR UNHEALTHY EXPOSURE TO THE HAZARD. ALL SPILLS SHALL BE HANDLED USING THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AND FOLLOWING THE PRESCRIBED PROCEDURES.

Reporting Emergencies

Any person who first becomes aware of an actual or perceived emergency must immediately report it by dialing 6911 (from plant phones) or 760-268-4000, option 2 from an outside or cell phone.

- Be prepared to provide the operator with the name, location, and nature of the emergency.
- The EPS alert horn (warble tone) is used for emergencies and is followed by an announcement on the loud speaker system stating the type and location of the emergency and any other necessary information.

The On-Duty Operator will notify the Plant Manager and, as necessary, the appropriate contacts listed in the Emergency Notification Phone List and providing the minimum information shown on the Spill or Release Response Notification form in Appendix A.

Relations with Press, Fire and Police Departments

In the course of EPS operations, emergencies such as fires, explosions, or accidents may be serious enough to be of concern to the Police and Fire Departments, and/ or attract attention of the press and public.

These incidents should be reported to the Police and Fire Departments by the Plant Manager (or his relief), giving enough detail to make the position clear. In making this report, be sure that responders understand that EPS is preparing them for possible inquiries, which may come from citizens.

Anyone seeking information (whether in person or by telephone) should be referred to the Plant Manager. In the event the Plant Manager is not available, a responsible person at EPS should release only sufficient information to cover the story to be released.



Emergency Organization and Responsibilities

5.4.1 Emergency Coordinator

The Environmental Manager and/or the Plant Manager is the Emergency Coordinator. The Emergency Coordinator's primary responsibilities under this Plan will be to gather information on the status of the affected equipment, evaluate, and implement the safest methods to protect human health and the environment, and return the plant back to normal operating conditions. Specific responsibilities are identified in Section 4 and may be delegated, as necessary, to the Incident Commander.

5.4.2 Incident Commander

During an emergency, the On-Duty Operator or most senior operator onsite will function as the EPS Incident Commander and is responsible for controlling, coordinating, and managing emergency response activities.

- The Incident Commander will take initial control of the emergency. The Incident Commander will assess the need for outside assistance and, if required, will summon outside assistance such as fire agencies, local police, paramedics, or contractors.
- When notified of an emergency, the Control Room Operator is initially responsible for: 1) Notifying the On-Duty Operator; 2) Calling 9-1-1; and 3) Notifying Security to inform them that emergency vehicles are on the way.
- The Incident Commander shall take action to limit the extent of damage, minimize hazards to personnel and the public, but only if safe to do so and only within the limits of the training and capabilities of on-site personnel and resources.
- The Incident Commander shall obtain information to quickly assess the problem and as soon as practicable make the proper notifications per regulatory requirements. The On-Duty Operator will also notify the Management Staff.

5.4.3 Plant Manager

The Plant Manager is assigned the primary responsibility of employee, site and operational safety 24 hours a day and in response to emergencies. The administrative authority under this Plan rests ultimately with the Plant Manager. Under this Plan, the designated relief for the Plant Manager is, in order: the Operations and Maintenance Manager, Environmental Manager, and On-Duty Operator.

5.4.4 Operations and Maintenance Manager

The Operations and Maintenance Manager's primary responsibilities under this Plan include: employee evacuation, accounting for all personnel, first aid, security, and maintenance support to the Operations Manager.



Evacuation

There could be a number of reasons to evacuate an area or the entire EPS, including fire, unknown odors, chemical spill, earthquake, or any threat to staying in the area. Evacuate as follows upon recognition of: 1) an emergency, 2) the plant alert alarm; 3) a local alarm of which you are not familiar; or 4) as instructed by a responsible person.

- Do not use elevators.
- Remain calm and quiet in order to hear safety instructions.
- Offer assistance to anyone having difficulty exiting the building.
- Stay alert to avoid possible hazards when moving to the evacuation reporting area (e.g., smoke, fire, spills, odors, fallen objects, etc.).
- Stay clear of emergency response personnel and vehicles.
- Notify “6911” if you suspect there may be anyone who is delayed or may have not safely evacuated and may still be in the affected area.
- Do not leave the reporting area or return to the evacuated area(s) until authorized to do so.

5.5.1 Evacuation Reporting Areas

During an evacuation, all personnel shall report to the Reporting Area directly west of the maintenance shop or south of Unit 5, except for Security and Operators, as noted in Table 7. In the event the Reporting Area becomes compromised, the Incident Commander or Operations Manager will advise employees and contractors to report to an alternative reporting area. Table 7 identifies the reporting areas and duties of employees during an evacuation. Evacuation maps are posted on the wall adjacent to major exits.



Table 7. Evacuation Reporting Areas and Duties

Role	Reporting Area	Duties
General Employees and Contractors	Parking Lot West of the Maintenance Shop or South of Unit 5	<ul style="list-style-type: none"> Alert others in the area of your presence. Alert management of any person that you suspect may not have evacuated and their last location. Do not leave until specifically told to do so by management. Follow instructions from management or emergency authorities.
Security Officer	Security Building - report in to the Operations Manager via handheld radio.	<ul style="list-style-type: none"> Keep the general public off of the property. Allow only authorized persons in. Take names of anyone leaving the EPS and report these names to the Operations Manager for personnel accountability.
On-Duty Operator & Operators	<p>Operating Stations - report into Units 3 & 4 Control Room via phone.</p> <p>The On-Duty Operator will give a head count to the Operations Manager.</p>	<ul style="list-style-type: none"> Check Operating areas and equipment. If evacuation of the operating areas occurs, and if there is enough time and it is safe to do so, block load or shutdown equipment in a safe manner. If no evacuation of the operating areas is needed, begin restoring EPS operations to normal. Continue to operate the units safely through the emergency.

Fire

In the event of fire, call 6911 from any EPS phone and report the location of the fire (call 760-268-4000, option 2 from an outside or cell phone); if you are trained, and if it safe to do so, attempt to extinguish incipient level fires (fires in the early stages of development). Fire extinguishers are located throughout the EPS and in the various offices; never attempt to extinguish a fire, even a small one, unless you have been trained and feel comfortable doing so.

It is always best to take two fire extinguishers with you when trying to extinguish a flame. One to be used to attempt to extinguish the flame and the other to enable you to back away from the fire should the first attempt to extinguish the fire is unsuccessful.

All EPS personnel will be trained annually to use portable fire extinguishers. This equipment is to be used only when attempting to extinguish small incipient fires. A fire will quickly grow out of control and beyond the extinguishing capabilities of EPS personnel and equipment, unless it is extinguished rapidly.

Therefore, as soon as it is realized that the fire cannot readily be extinguished, no EPS personnel shall continue fighting the fire. If this occurs, operators will block load or shut down as much equipment as



they safely can do and then they will evacuate the building. All other personnel shall evacuate immediately. At no time, is any employee authorized to risk his/her safety in order to "save" equipment.

Earthquake

5.7.1 Site Personnel

- Remain calm. Do not attempt to evacuate if any shaking is occurring.
- DROP, COVER and HOLD ON. Find shelter under a desk or sturdy table. A doorway may provide some shelter if a piece of furniture is not immediately available.
- Avoid places where objects may fall from overhead storage or near outside walls and windows.
- Follow instructions from responsible persons.
- In an earthquake, once the building stops shaking, ensure all employees are safe and attend to any injured personnel.
- Follow the evacuation procedures listed above. Do not use elevators. Once outside, stay away from buildings, trees and electrical lines.

5.7.2 Incident Commander

As soon as safely possible when the shaking stops, the Incident Commander will perform:

- A survey to account for personnel
- Inspect all areas of EPS for damage, with special attention on oil and hazardous material equipment, containers, piping, and sumps for evidence of leaks or damage that could cause a leak.
- Take action as appropriate.
- Report EPS status to Plant Management and responding emergency agencies.

Injuries or Illness

5.8.1 Emergency Injury or Illness

- In the event of a life-threatening emergency, medical assistance must be requested by calling 6911. Dialing (760) 268-4000, option 2 can also be used.
- The Control Room Operator will sound the EPS Emergency Alarm and announce over the voice page the location and nature of the emergency.
- The On-Duty Operator will respond to the location of the emergency and determine if an ambulance or outside medical attention is needed. If so, the On-Duty Operator or Unit 3&4 CO will dial 9-911. If appropriate, the injured employee will be taken to Tri-City Hospital by Carlsbad paramedics.
- The On-Duty Operator will notify the Plant Manager and the injured employee's supervisor.



5.8.2 Minor Injuries or Illness

- First aid will be administered by trained EPS personnel using the first aid kits.
- The injured employee is to report immediately to his/her foreman or supervisor.
- Medical attention should only be provided if the provider is trained and has the necessary supplies available.
- Any person giving medical attention must avoid contact with blood, body fluids or other potentially infectious material by using protective equipment and safe practices. An exposure must be promptly reported to the employer.
- Injury Forms must be completed. The form must be signed by the foreman/supervisor.

5.8.3 Chemical or Ammonia Exposure First Aid

- EYE CONTACT: Flush with large amounts of water using eye wash for at least 15 minutes then immediately seek medical aid.
- SKIN CONTACT: Immediately flush with large quantities of water using the emergency shower for at least 15 minutes while removing clothing. If clothing has frozen to skin, thaw with water before removal. Seek immediate medical aid.
- INHALATION: Remove from exposure to vapors. If breathing has stopped or is difficult, administer artificial respiration or oxygen as needed. Call 6911. Seek immediate medical aid.
- Caution: A thorough medical evaluation is required after significant chemical exposure or any exposure to the eyes or respiratory system. Harmful delayed symptoms may occur that are not immediately noticed.

5.8.4 Non-Industrial Illness

- In the case of non-industrial sickness of an employee, the employee's private doctor should be called. If the doctor is not available, and the situation warrants it, call 6911 or make arrangements to get the employee to a care facility or hospital. Every attempt should be made to contact employee's emergency contact.
- Employees subject to frequent or chronic medical problems may want to give their doctor's name, address and telephone number to their foreman/supervisor, who will keep the information available.

5.8.5 Injuries to the Public

- The employee who discovers the accident will report immediately to a supervisor in the area.
- The supervisor (employee, if a supervisor is not immediately available) will contact 6911 if the injury requires emergency medical attention.



5.8.6 Incident Communications

- Refrain from discussion of the cause or extent of the injury.
- Do not call a doctor unless you receive specific instructions. This does not limit notification of emergency medical personnel in the event of serious injury.

Hazardous Material Spills or Threatened Releases

5.9.1 Incidental Spills

Incidental spills are those that involve routinely handled materials under conditions that have been determined not to pose significant hazards to human health or the environment and that can be safely cleaned up by EPS personnel familiar with the spill material using the available spill supplies.

- Notify the Environmental Specialist immediately. The Environmental Specialist will:
 - Verify that any contaminated materials and waste are placed into labeled containers and managed appropriately.
 - Verify that contaminated re-usable equipment is effectively isolated from service until thoroughly decontaminated and restored to service.
 - Verify the effectiveness of the clean-up at removing residues from affected equipment, facilities, ground surfaces, underlying soils, surface water, sumps, etc. to protect the environment from potential pollutants.

5.9.2 Emergency Spills

All spills or incidents that may cause a release that are not determined to be incidental spills will be considered to be emergencies until the Incident Commander or Environmental Coordinator determines otherwise. This includes releases involving unknown or undetermined materials, conditions (extent of release, area affected, potential hazards, etc.) are determined.

- Evacuate the area and notify others, as necessary. Move up wind of any potential vapors.
- Call 6911 from any EPS phone and report the location of the spill or release (call 760-268-4000, option 2 from an outside or cell phone).
- The Control Room/On-Duty Operator assumes control of the emergency response until determined that the incident no longer poses an emergency condition.
- Control Room staff will make the necessary notifications as needed using the Emergency Notification Phone List in Attachment A.
- Control Room staff will shut-off affected equipment, as needed, and monitor for upset conditions, releases, etc. through the Control Room, the video surveillance cameras, and/or dispatching operators to the scene.
- If safe to do so without exposure or risk to yourself or others:



Hazardous Materials & Waste Contingency Plan

- Stop the spill by shutting off equipment.
- Use absorbents or soil to create dikes or barriers to stop the flow and contain the spill. Protect nearby exposed soil and/or drains from the spilled material.
- If contact with the material or potential vapors is possible, wear the appropriate personal protective equipment.
- Shut off water, gas, electricity, or close drains, as needed, to prevent the spread of the spilled material or possible flammable vapors from igniting.
- Move exposed containers or equipment safely away from spilled material.
- The Incident Commander or designated personnel trained in Hazardous Materials First Responder will assess the incident to determine the appropriate actions, including
- Call the Spill Response Contractor, as needed, to take further actions to assist in the incident management, contain and clean up the spill.
- Before proceeding with any response or clean up, verify that all agencies involved are in agreement with the response plan.
- Direct personnel to clean up the spill using onsite supplies and equipment using appropriate protective equipment and cleanup procedures.
- Continually monitor the overall scene, personnel safety, and modifying the approach as needed.
- Declare the emergency response concluded when conditions and site safety warrant.
- Verify that the resulting contaminated materials and waste into containers and labeling them by the assumed hazards (i.e., hazardous waste, universal waste, trash, etc.). Contaminated soil will be handled or treated, as required, to render the contaminant harmless or the contaminated soil will be dug up and removed offsite to an approved waste disposal site. The resulting hole will be filled in with uncontaminated soil.
- Verify that contaminated re-usable equipment is effectively isolated from service until thoroughly decontaminated and restored to service.
- Verify the effectiveness of the cleanup at removing residues from affected equipment, facilities, ground surfaces, underlying soils, surface water, sumps, etc. to protect the environment from potential pollutants.
- Facilitate a post-incident review meeting and making any follow-up agency reports.

5.9.3 Ammonia Release

All ammonia has been removed from EPS.

5.9.4 Natural Gas Leak

In the event of a gas leak, the Incident Commander will:



- Isolate gas leak area. Evacuate personnel and, if necessary, shut down electricity and remove potential sources of ignition.
- Close gas supply valve.
- If necessary evacuate area.
- Notify San Diego Gas and Electric (SDG&E) as needed.

Bomb Threats

- If a bomb threat is received by phone, keep the person on the line and get as much information as possible. Some typical questions to ask are:
 - What is your name? Where is the bomb?
 - What does the bomb look like? Why are you doing this?
- Make notes of the exact language used; background noises, your opinion as to the age, sex, education, or accent of the caller; and whether or not the call sounded like a hoax.
- After hanging up, immediately notify one of the managers. If you see a package or foreign object in an unusual place - do not touch it!
- Ask employees to search their immediate area for anything unusual. Instruct them not to touch anything suspicious. Report anything found to the Plant Manager.
- If it is determined that evacuation is necessary, begin the evacuation procedures listed above. Do not return to your work area until authorized to do so by a responsible person.

Motor Vehicle Accidents

Any incident involving a Company vehicle that results in injury or property damage, regardless of extent, shall be reported as follows:

- Fulfill all obligations as specified by the law of the State of California. All persons driving Company cars must have a driver's license and should be thoroughly familiar with the laws governing use of motor vehicles on public thoroughfares.
- Request an ambulance or doctor as needed. Also, request that the proper law enforcement agency be notified if Police Officers are not already at the scene of the accident.
- Notify your immediate Supervisor or Manager.
- Remain at the scene of the accident until you are told you can leave by your Supervisor or Manager, or until you have been told you can leave by the Police. Do not leave before first checking with the Police Officer at the scene.
- If personnel injury resulted, at least one person should stay with the injured person, when possible, rendering first aid, if trained.



Hazardous Materials & Waste Contingency Plan

- Refrain from making any statements concerning responsibility in any accident. Do not accept any responsibility for an accident, or arrange for the payment of any expenses incurred by injured persons or for the damages to private property.
- The following information shall be obtained after the accident:

Before the vehicles involved in the accident are moved, the Company Operator shall make marks on the roadway indicating the relative position of the wheels of both vehicles at the time of the impact. Determine point of impact. Record skid marks of vehicles. Take photos if a camera is available.

- Name, address and driver's license number of the owner and operator of the other vehicle.
- Name and address of any witnesses.
- License number, make, type of cars involved, and damage to vehicles other than the Company vehicle. If the other vehicle is a bus, truck, or tractor of another company, also get the name, address and phone number of the Company.
- Name and addresses of injured persons: approximate age, nature of injuries, and where taken.
- Record statements made by driver, passenger, or witnesses.
- Name and Badge or ID number of any investigating Police Officers.
- Note time accident occurred.
- Identify yourself to the non-employees involved in the accident and make your driver's license and vehicle registration certificate available for inspection.
- All accidents resulting in personnel injury will be reported to the proper law enforcement agency, as required. If such accidents are not investigated by a police officer, the driver shall make a report to the proper agency within 24 hours.

All Other Emergencies

Notify the Plant Manager or designated relief. Depending on the nature and extent of the emergency, call 6911.



Section 6 Training

The Cabrillo Power I LLC Required Personnel Environmental Training document identifies the required environmental training for employees and contractors who routinely work at EPS. Table 8 summarizes the emergency and spill prevention training. The Environmental Specialist maintains records of the training that are available in the Administration Building.

Table 8. Emergency and Spill Prevention Training

Personnel	Training	Topics
Site Employees Site Contractors (Routine)	Emergency Response	<ul style="list-style-type: none"> • Overview of the Emergency Action Plan • Reporting of incidents • Evacuation procedure and reporting areas
Site Employees Site Contractors (Routinely onsite)	Annual Environmental Course I & II	<ul style="list-style-type: none"> • Overview of this Plan • Overview of the Hazardous Materials Business Plan • Overview of the SPCC Plan • Reportable releases and quantities • Personal protective equipment (PPE) • Firefighting equipment • Waste handling • Help available from the local emergency response agencies and the spill response contractor
Site Employees	Annual Hazard Communication and Risk Management	<ul style="list-style-type: none"> • Types of hazardous material at EPS • Safety data sheets
I&E Employees and Contractors	Annual Environmental for I&E	<ul style="list-style-type: none"> • Inspection requirements • Calibration
Operators	Annual Environmental for Operators	<ul style="list-style-type: none"> • SPCC oil operations, drains, secondary containment, equipment inspections • Chemical handling and waste management
Mechanical Maintenance Employees and Contractors	Annual Environmental for I&E	<ul style="list-style-type: none"> • Inspection requirements • Calibration
Shift Supervisors	Annual Supervisor Course	<ul style="list-style-type: none"> • Upset conditions and breakdowns • Spill response, firefighting • Chemical deliveries and spill prevention



APPENDIX A
EMERGENCY NOTIFICATION PHONE LIST
AND
SPILL OR RELEASE NOTIFICATION FORM



Hazardous Materials & Waste Contingency Plan

REPORTER'S NAME: _____		DATE: _____		MARK ONE: _____		DRILL _____		REAL _____	
INCIDENT									
FACILITY: ENCINA POWER STATION				OWNER: CABRILLO POWER I LLC			EPA ID: CAT00618900		
1	NATIONAL RESPONSE CENTER http://www.nrc.uscg.mil/nrchp.html	(800) 424-8802 (202) 267-2675		Date:	Reference #:	Time:	Person Contacted:		
2	CALIFORNIA OFFICE OF EMERGENCY SERVICES http://www.caloes.ca.gov	(800) 852-7550		Date:	Reference #:	Time:	Person Contacted:		
3	EPS EMERGENCY COORDINATORS: <div style="text-align: right; padding-right: 20px;"> Timothy Sisk Security Guards Time: </div>		<div style="text-align: right; padding-right: 20px;"> (760) 930-1507 office (760) 268-4032 office Time: </div>		<div style="text-align: right; padding-right: 20px;"> (860) 334-8081 cell (760) 535-2705 cell Time: </div>				
4	US COAST GUARD	(202) 267-2180		Date:	Reference #:	Time:	Person Contacted:		
5	REGIONAL WATER QUALITY CONTROL BOARD	(858) 467-2952		Date:	Reference #:	Time:	Person Contacted:		
6	CA DEPARTMENT FISH & WILDLIFE	(916) 358-2900		Date:	Reference #:	Time:	Person Contacted:		
7	CA DEPT. OF TOXIC SUBSTANCES CONTRL (DTSC)	(916) 255-3545		Date:	Reference #:	Time:	Person Contacted:		
8	POISON CONTROL CENTER	(800) 222-1222		Date:	Reference #:	Time:	Person Contacted:		
9	U.S. ENVIRONMENTAL PROTECTION AGENCY	(800) 300-2193		Date:	Reference #:	Time:	Person Contacted:		
10	CAL/OSHA	(916) 263-2800		Date:	Reference #:	Time:	Person Contacted:		
11	STATE FIRE MARSHAL	(916) 445-8200		Date:	Reference #:	Time:	Person Contacted:		



Hazardous Materials & Waste Contingency Plan

REPORTER'S NAME: _____		DATE: _____	MARK ONE: _____	DRILL _____	REAL _____
INCIDENT					
FACILITY: ENCINA POWER STATION		OWNER: CABRILLO POWER I LLC		EPA ID: CAT00618900	
12	<u>LOCAL AGENCIES:</u> SAN DIEGO DEPT. OF ENV. HEALTH (CUPA) CARLSBAD FIRE DEPARTMENT NCTD (TRAIN EMERGENCIES) CALIFORNIA HIGHWAY PATROL CARLSBAD POLICE SAN DIEGO GAS & ELECTRIC SAN DIEGO CO.SHERIFF'S OFFICE FBI (TERRORISM)	(858) 505-6657 911 or (760) 931-2141 (760) 966-6700 911 or (760) 757-1675 911 or (760) 931-2197 (619) 296-5400 or (800) 611-7343 (858) 565-5200 (858) 565-1255	Time: Time: Time: Time: Time: Time: Time: Time:	Name: Name: Name: Name: Name: Name: Name: Name:	
13	<u>NEIGHBORS</u> AQUACULTURE FARM HUBBS SEA WORLD RESEARCH INST CARLSBAD DESALINATION FACILITY CITY OF CARLSBAD AGUA HEDIONDA LAGOON FOUNDATION	(760) 438-2444 John 24hr (858) 481-2060 (760) 434-9501 (760) 655-3900 (760) 802-8200 24 hr (760) 804-1969	Time: Time: Time: Time: Time:	Name: Name: Name: Name: Name:	
14	WEATHER REPORT	www.weather.com			
15	CA DEPT. OF PUBLIC HEALTH	(619) 525-4159	Time:	Name:	
16	TRI CITY HOSPITAL	911 or (760) 724-8411	Time:	Name:	
17	ADDITIONAL NOTIFICATIONS:		Time:	Name:	
			Time:	Name:	



Hazardous Materials & Waste Contingency Plan

SPILL OR RELEASE NOTIFICATION

In the event of a spill, have the following information available

Reporting will follow the reporting guidance of the California Hazardous Material Spill/Release Notification Guidance: <http://www.caloes.ca.gov/FireRescueSite/Pages/Spill-Release-Reporting.aspx>

State and Local Notification:

1. Name of business: ENCINA POWER STATION
4600 Carlsbad Boulevard, Carlsbad, California 92008

2. Identity of caller: _____

3. Chemical name and quantity released (if known): _____

4. Description of what happened: _____

5. Was the release contained? Yes No

Please describe if release entered any waterway, storm drain, or soils: _____

6. Information about the spill, release or threatened release:

- Location: _____
- Date: _____ Time: _____
- Injuries or Fatalities? _____
- Evacuation Conducted? _____
- Clean-up by: _____

Federal Notification:

1. Any single oil discharge of more than 1,000 gallons, or more than 42 gallons in each of two discharges, is required to be followed-up within 60 days by a written report submitted to the U.S. Environmental Protection Agency (U.S. EPA) Regional Administrator and Certified Unified Program Agency (CUPA) as described in 40 Code of Federal Regulations (CFR) 112.4(a).
2. Any spill of a Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) hazardous substance above its reportable quantity (RQ) as described in (40 CFR Part 302), which includes: a) Medium or media impacted by the release; b) Time and duration of the release; c) Proper precautions to take; d) Known or anticipated health risks; e) Name and phone number for more information