
WORKER SAFETY-1

**Construction Injury and Illness
Prevention Program**

CEMS Concrete Pad

Carlsbad Energy Center Project

Prepared for
Carlsbad Energy Center, LLC

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CH2MHILL
6 Hutton Centre Drive, Suite 700
Santa Ana, CA 92707

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Construction Injury and Illness Prevention Program – CEMS Concrete Pad

Introduction

This Construction Injury and Illness Prevention Program (Construction IIPP) has been prepared in accordance with Condition of Certification (CoC) Waste-1 for the construction of the western Continuous Emissions Monitoring System (CEMS) which is the initial construction activity for the Carlsbad Energy Center Project (CECP). Prior to the start of full construction for the remainder of CECP, a revised Construction IIPP will be prepared and submitted to the CEC Construction Compliance Manager (CPM) and Chief Building Official (CBO) for full construction of the CECP.

The construction contractor for the CEMS pad shall also submit a project specific Construction IIPP to the CCE CPM and the CBO.

Carlsbad Energy Center, LLC, is the owner of the CECP, which is located in the City of Carlsbad, California. The CTCIP has been prepared for activities related to the excavation and construction of an approximate 20- by 20-foot concrete pad foundation within a bowl-shaped containment berm that has a permitted storm water collection system. The concrete pad is being constructed for the western CEMS that will support pending electrical generating equipment for the CECP. The objective of the Construction IIPP is to identify and minimize potential construction-related traffic congestion impacts and to mitigate such impacts, where appropriate, for the construction of the CEMS concrete pad.

1.1 Project Background

The CECP is located on approximately 23 acres of the existing Encina Power Station owned by NRG Energy, Inc. The CECP is being constructed to meet the electrical resource needs for the San Diego County Region as identified by the California Independent System Operator (CAISO), the California Energy Commission, the California Public Utilities Commission (CPUC), and San Diego Gas and Electric (SDG&E). This includes contributing electricity to reserves that will ensure a reliable energy supply and local and regional electrical transmission grid support in San Diego County and the southern California region.

1.2 Project Description

1.2.1 Project Location

The CECP site is located in the City of Carlsbad, California (Figure 1). The site address is 4600 Carlsbad Blvd, Carlsbad, California 92008. The CECP site is part of the approximately 95-acre Encina Power Station located in Township 12 South, Range 4 West, Section 7, in San Diego County. The Encina Power Station is comprised of the following Assessor Parcel Numbers (APNs): 210-01-41 (project site) and 210-01-43.

The project site is located in the central portion of the City of Carlsbad, adjacent to the Pacific Ocean and immediately west of Interstate 5. Carlsbad Boulevard (also designated as County Highway S21) and a railroad line are located west of the project site, and the Agua Hendionda Lagoon is located adjacent to the site to the north (Figure 2). The predominant land use in the vicinity of the site is mainly industrial. Residential and commercial land uses are also situated nearby.

The CECIP site will ultimately consist of approximately 23 acres. The two new units (designated Units 6 and 7) will be on the northeast area of the existing Encina Power Station, between the railroad to the west and Interstate 5 to the east. The CEMS pad addressed under this CTCIP will be constructed in a bowl-shaped berm that houses three former fuel oil tanks (Figure 3). These three tanks will remain in place during the construction of the west CEMS pad. As part of the full construction of CECIP, these three tanks and their associated piping and control system will be removed.

1.3 Applicability

The construction contractor for the CEMS concrete pad, and any subcontractors to the construction contractor on the CEMS concrete pad construction are required by CalOSHA (CCR Title 8) to have an Injury and Illness Prevention Program (IIPP). The IIPP may be integrated into an overall Construction Safety Plan prepared by the construction contractor.

1.4 Requirements

The required elements of the construction contractor's IIPP from CCR Title 8 §3203 are listed below and must be included.

1.4.1 Program

The Program shall be in writing and, shall, at a minimum:

- (1) Identify the person or persons with authority and responsibility for implementing the Program.
- (2) Include a system for ensuring that employees comply with safe and healthy work practices. Substantial compliance with this provision includes
 - recognition of employees who follow safe and healthful work practices,
 - training and retraining programs,
 - disciplinary actions, or any other such means that ensures employee compliance with safe and healthful work practices.
- (3) Include a system for communicating with employees in a form readily understandable by all affected employees on matters relating to occupational safety and health, including provisions designed to encourage employees to inform the employer of hazards at the worksite without fear of reprisal. Substantial compliance with this provision includes
 - meetings,
 - training programs,

- posting, written communications,
 - a system of anonymous notification by employees about hazards,
 - labor/management safety and health committees, or
 - any other means that ensures communication with employees.
- (4) Include procedures for identifying and evaluating work place hazards including scheduled periodic inspections to identify unsafe conditions and work practices. Inspections shall be made to identify and evaluate hazards.
- When the Program is first established;
 - Whenever new substances, processes, procedures, or equipment are introduced to the workplace that represent a new occupational safety and health hazard; and
 - Whenever the employer is made aware of a new or previously unrecognized hazard.
- (5) Include a procedure to investigate occupational injury or occupational illness.
- (6) Include methods and/or procedures for correcting unsafe or unhealthy conditions, work practices and work procedures in a timely manner based on the severity of the hazard:
- When observed or discovered; and,
 - When an imminent hazard exists which cannot be immediately abated without endangering employee(s) and/or property, remove all exposed personnel from the area except those necessary to correct the existing condition. Employees necessary to correct the hazardous condition shall be provided the necessary safeguards.
- (7) Provide training and instruction:
- When the program is first established;
 - To all new employees;
 - To all employees given new job assignments for which training has not previously been received;
 - Whenever new substances, processes, procedures or equipment are introduced to the workplace and represent a new hazard;
 - Whenever the employer is made aware of a new or previously unrecognized hazard; and,
 - For supervisors to familiarize themselves with the safety and health hazards to which employees under their immediate direction and control may be exposed.

1.4.2 Construction Employer Requirement

In addition the IIPP above the following elements are required for construction employers.

- (b) Every employer shall adopt a written Code of Safe Practices which relates to the employer's operations..
- (c) The Code of Safe Practices shall be posted at a conspicuous location at each job site office or be provided to each supervisory employee who shall have it readily available.
- (d) Periodic meetings of supervisory employees shall be held under the direction of management for the discussion of safety problems and accidents that have occurred.
- (e) Supervisory employees shall conduct "toolbox" or "tailgate" safety meetings, or equivalent, with their crews at least every 10 working days to emphasize safety.