
Worker Safety-1

**Construction Personal Protective
Equipment Program**

Carlsbad Energy Center Project

Prepared for
Carlsbad Energy Center, LLC

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Worker Safety-1 Construction Personal Protective Equipment Program

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 CECP 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 CECP, these three tanks and their associated piping and control system will be removed.

Personal Protective Equipment (PPE)

2.1 Required Personal Protective Equipment

PPE must be worn by employees when actual or potential hazards exist and engineering controls or administrative practices cannot adequately control those hazards. A PPE assessment must be conducted by the employer’s Health and Safety Manager based on project tasks (see PPE specifications below). Verification and certification of assigned PPE by task is completed by the employer’s Health and Safety Manager that approved the Construction Safety Program. Below are items that need to be followed when using any form of PPE:

- Employees must be trained to properly wear and maintain the PPE;
- Employees must be trained in the limitations of the PPE;
- In work areas where actual or potential hazards are present at any time, PPE must be worn by employees working or walking through the area;
- Areas requiring PPE should be posted or employees must be informed of the requirements in an equivalent manner;
- PPE must be inspected prior to use and after any occurrence to identify any deterioration or damage;
- PPE must be maintained in a clean and reliable condition;
- Damaged PPE shall not be used and must either be repaired or discarded; and
- PPE shall not be modified, tampered with, or repaired beyond routine maintenance.

The table below outlines PPE to be used according to task based on project-specific hazard assessment. If a task other than the tasks described in this table needs to be performed, contact the RHSM so this table can be updated.

PPE Specifications ^a

Hazard	PPE
General entry to active construction site.	ANSI approved Safety-toed leather work boots, safety glasses with sideshields, and hardhat.
Working in or near traffic —or—working in or near heavy equipment work zones.	High visibility, reflective vest.
Working around heavy equipment or other noisy machinery, or if you must raise your voice to be heard while communicating with persons near you, hearing protection is required.	ANSI approved ear plugs or earmuffs.
Severe cuts or lacerations, severe abrasions, punctures, chemical burns, thermal burns and harmful temperature extremes.	Leather work gloves or Kevlar work gloves
Potential for head injury from impact, falling or flying objects.	ANSI approved hardhat.
Flying particles, molten metal, liquid chemicals, acids or caustic liquids, chemical gases or vapors, or potentially injurious light radiation.	ANSI approved safety glasses with side shields, safety goggles, face shield, or welding glasses. Face shield may be used only in conjunction with the use of other protective eyewear.

Reasons for Upgrading or Downgrading Level of Protection

Upgrade^b

- Request from individual performing tasks.
- Change in work tasks that will increase potential for injury.
- Known or suspected presence of dermal hazards.

Downgrade

- Situation is less hazardous than originally thought.
 - Change in site conditions that decrease the hazard.
 - Change in work task that will reduce potential for injury.
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^a CH2M HILL will provide PPE only to CH2M HILL employees.

^b Performing tasks that require respiratory protection is permitted only when the user is respirator qualified, the PPE requirements have been approved by the RHSM and plans/AHAs amended, and a SC qualified at that level is present.