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Project Title:	Carlsbad Energy Center - Compliance
TN #:	231224
Document Title:	Traffic Control Plan TRANS-1
Description:	Traffic Control Plan for the Demolition of Encina Power Station
Filer:	Anwar Ali
Organization:	Carlsbad Energy Center LLC
Submitter Role:	Applicant
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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,

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

**Construction Traffic Control
And Implementation Plan
Demolition of Encina Power Station Project
(07-AFC-06C)**

Carlsbad, California

Prepared for

Cabrillo Power I LLC

4600 Carlsbad Boulevard

Carlsbad, CA 92008

September 2019

Introduction

Section	Page
Acronyms and Abbreviations	1
1 Introduction	2
1.1 Project Background	2
1.2 Project Location	2
1.3 Project Description	3
2 Condition of Certification	4
3 Transportation Routes and Access	5
3.1 Workforce Site Access	5
3.2 Truck Routes/Access	5
3.2.1 Primary Truck Route	5
3.2.2 Secondary Truck Route	5
3.3 Emergency Vehicle Access	6
4 Traffic Control Procedures	7
5 Contacts	8
6 References.....	9

Figures

- 1 Site Plan
- 2 Traffic Control and Implementation Plan
- 3 Fire and Emergency Access Routes

SECTION 1

Introduction

Amended CECP	Amended Carlsbad Energy Center Project
CEC	California Energy Commission
COC	Condition of Certification
CPM	Construction Compliance Manager
CTCIP	Construction Traffic Control and Implementation Plan
EPS	Encina Power Station
I-5	Interstate 5
NCTD	North County Transit District
NCP	Noise Control Plan
Project Owner	Cabrillo Power I, LLC
PTA	Petition to Amend
SDG&E	San Diego Gas and Electric

Introduction

Cabrillo Power I, LLC. (“Project Owner”) has prepared this Construction Traffic Control and Implementation Plan (CTCIP) for the demolition of the Encina Power Station (Phase IV) as a continuation of the Amended Carlsbad Energy Center Project (“Amended CEC” or “Project”) in San Diego County, California. This CTCIP is applicable to the activities associated with the Petition to Amend (PTA), as submitted by the Project Owner in April of 2014, and has been prepared in accordance with Condition of Certification (COC) TRANS-1 in the California Energy Commission’s (CEC’s) Amended CEC Final Decision (07 AFC-06C; July 2015).

The purpose of this CTCIP is to identify mitigation, monitoring, and compliance measures to ensure compliance with the COC TRANS-1. This CTCIP is has been prepared to address Phase IV activities, which includes the demolition of the Encina Power Station.

The Project Owner consulted with the City of Carlsbad concerning traffic controls for the Phase I demolition/removals and soil remediation activities. After CEC Compliance Project Manager (CPM) approval, Phase I activities were approved in December 2014 (demolition of tanks 5, 6, and 7) and August 2015 (demolition of tanks 1, 2, and 4, and soil remediation). Phase I activities concluded in November 2015. The City of Carlsbad was again consulted with in November 2015 for this revised CTCIP. Comments received from the City of Carlsbad have been incorporated into this Plan.

A Noise Control Plan (NCP) was submitted in September 2014 for CEC Phase I demolition/removal activities for Tanks 5, 6, and 7, in support of the relevant COCs adopted by the CEC in its June 2012 Final Decision (07-AFC-06C). The NCP was updated in July 2015 for Amended CEC Phase I demolition of Tanks 1, 2, and 4, and as needed soil remediation in the tank basins in support of the COCs proposed by the CEC in the June 2015 Amended CEC Presiding Member’s Proposed Decision (07-AFC-06C). After CEC Compliance Project Manager approval, CEC Phase I activities commenced in February 2014 and Amended CEC Phase I activities commenced in July 2015. Another NCP was submitted in November 2015 to allow for compliance of Noise-3 during site preparation, construction and commissioning of the Amended CEC as modified by the PTA.

1.1 Project Background

The Amended CEC was constructed to meet the electrical resource needs for the San Diego County Region as identified by the California Independent System Operator, the CEC, the California Public Utilities Commission, 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. The construction and operation of the Amended CEC requires that the now retired Encina Power Station be demolished.

1.2 Project Location

The Encina Power Station site is located in Carlsbad, San Diego County, California (Figure 1 and 2). The site address is 4600 Carlsbad Boulevard, Carlsbad, California 92008. The Amended CEC site is located on a portion of the approximately 95-acre Encina Power Station property located in Township 12 South, Range 4 West, Section 7, in San Diego County. The Amended CEC site is located within the northeastern portion of the existing EPS property, and is bordered to the east by Interstate 5, to the south by the SDG&E maintenance yard and Cannon Substation, to the west by the Pacific Ocean, and to the north by the Agua Hedionda Lagoon. The Amended CEC site is bisected by the North County Transit District (NCTD) railroad right-of-way that runs north and south through the Encina Power Station. The predominant land use in the

Introduction

vicinity of the site is industrial. Residential, commercial, agricultural, and open space land uses are also situated nearby.

1.3 Project Description

The Amended CECP has been divided into four phases as follows:

- **Phase I** – Above grade demolition/removal activities for Tanks 1, 2, 4, 5, 6, and 7 including soil remediation in the tank basins as needed, and berm removal between Tanks 4 and 5, 5 and 6, and 6 and 7. This phase includes below grade demolition, soil disturbance and excavations associated with berm removal and soil remediation activities. Above grade demolition and removal of Tanks 5, 6, and 7 is being accomplished under the existing CEC License for CECP.
- **Phase II** – Site preparation, construction, commissioning and operation of the Amended CECP as modified by the PTA.
- **Phase III** – Retirement and decommissioning of the Encina Power Station facility.
- **Phase IV** – Demolition of the Encina Power Station facility. Phase IV specifically excludes below grade demolition and site remediation, which will be accomplished under the authority of San Diego County Environmental Health Department (site remediation) and the City of Carlsbad (redevelopment of the Amended CECP site for future use) subsequent to the completion of Phase IV.

Demolition equipment will be typical of demolition work and will include excavation equipment (such as track hoes, front-end loaders and backhoes), off-road forklifts, man-lifts, small diesel generators, delivery trucks, 10-wheel dump trucks, semi-tractor trailer trucks, cranes, and demolition crew support trucks. Oversized loads will be transported on multiple axel trucks with escort vehicles. The average demolition workforce is expected to range in size from 50-100 workers at any one time, with a peak of 125 workers. Demolition activities are anticipated to occur over an approximately 27-month period.

This NCP has been prepared to address Encina Power Station activities and contractors will be required to acknowledge NCP requirements as part of their procurement process.

SECTION 2

Condition of Certification

The CEC issued COC TRANS-1, which requires preparation and implementation of a traffic control plan to mitigate potential traffic impacts during demolition of the Encina Power Station facility. TRANS-1 requires preparation of a CTCIP as follows.

TRANS-1: The Project Owner shall consult with the City of Carlsbad and prepare and submit to the City of Carlsbad for review and comment and the Compliance Project Manager (CPM) for approval a demolition traffic control plan. The plan shall be implemented during all phases of demolition and shall address the following issues:

- Timing of truck trips, including heavy equipment and building materials deliveries, especially those that would cross the railroad tracks
- Directing demolition traffic with a flag person at a minimum for trucks traveling eastbound on Cannon Road from the SDG&E Service Gate to cross the railroad tracks
- Signing, lighting, and traffic control device placement if required
- Need for demolition work hours and arrival/departure times outside and during peak traffic periods
- Ensure access for emergency vehicles to the project site
- Temporary closure of travel lanes
- Access to adjacent residential and commercial property during construction and demolition of all pipelines
- Specify construction truck -related haul routes
- Identify safety procedures for exiting and entering the site access gate

Verification: At least 30 days prior to demolition, the project owner shall provide the traffic control plan to the City of Carlsbad for review and comment and to the CPM for review and approval.

Mitigation, monitoring, and compliance measures to ensure the Amended CECP complies with COC TRANS-1 are detailed in Sections 3 and 4 of this CTCIP.

In addition, the Crossing Safety Plan prepared for the Encina Power Station Demolition, applicable to TRANS-4, is incorporated by reference. The Crossing Safety Plan addresses pedestrian and vehicular traffic, including the transport of heavy/oversize loads, across the internal rail crossing.

Transportation Routes and Access

Phase IV activities of the Encina Power Station Demolition including decommissioning, abatement and demolition is anticipated to occur over an approximately 24-month period, and will typically occur Monday through Friday from 7:00 a.m. to 6:00 p.m. and 8:00 a.m. to 6:00 p.m. on Saturdays. Phase IV will have need for work hours and arrival/departure times outside and during peak traffic periods, which City of Carlsbad confirmed off-peak is between 8:30 a.m. and 3:30 pm.

The number of construction workers will fluctuate throughout the 24-month construction period, with the peak construction effort onsite occurring during month 2, when 120 workers are projected. Based on this assumption, activities would generate a total of 558 daily one-way auto trips (279 inbound trips and 279 outbound trips, assuming no carpooling occurs). The workforce will arrive before the morning peak hour; however, workforce-related trips could occur during the afternoon peak hour.

The truck trips will peak during month 6 when up to 29 truck deliveries (58 one-way trips) per day are expected. Truck trips will be spread throughout the day, and to the extent possible, will be conducted during off peak periods to avoid high traffic hours (high traffic at Cannon Road and I-5 occurs 3:30 p.m. to 7:00 p.m.).

3.1 Workforce Site Access

Workforce access to the Encina Power Station Demolition has been established as exiting from I-5 (north or southbound) at Cannon Road, and heading west, then turning right after the railroad tracks into Gate 3 and proceeding north into the gate at the Cannon Substation (Figure 2).

3.2 Truck Routes/Access

Transportation of materials generated during Encina Power Station Demolition activities will occur on arterial streets and freeways approved for truck traffic to minimize any potential impact on the local neighborhoods. Primary truck access to the Encina Power Station Demolition site will be via I-5 to Cannon Road to the driveway located immediately west of the rail line turning right at the gate to the SDG&E service yard (Gate 3). Site access and truck routes are shown in Figure 2 and are described below.

3.2.1 Primary Truck Route

The primary haul route for Encina Power Station Demolition activities has been established as exiting from I-5 (north or southbound) at Cannon Road and traveling west, Road to the driveway located immediately west of the rail line at the gate then turning right heading north into the gate at the Cannon Substation. Trucks would use the same route in reverse to leave the site. Heavy haul and oversized load deliveries will only be made via the primary truck route as designated by the oversize / overweight permit received from the California Department of Transportation (Caltrans).

3.2.2 Secondary Truck Route

The second haul route will be available by exiting I-5 (north or southbound) at Cannon Road and traveling west, then after crossing the rail line, taking an immediate right into the SDG&E service yard gate. Trucks would use the same route in reverse to leave the site.

Workers will use local roads in the area as well as the roads described above to access the secondary site entrance on Cannon Road.

Based on Section 5.8, *Traffic and Transportation*, of the CECP Application for Certification (Carlsbad Energy Center LLC, 2007) and Section 5.12 *Traffic and Transportation*, of the PTA (Carlsbad Energy Center LLC, 2014), the surrounding roadways and intersections currently operate within acceptable standards and are expected to continue to do so with the estimated Encina Power Station Demolition traffic. There would be no impact to the surrounding intersections or roadways on a daily or peak-hour basis and the transportation route will not require any new construction or modifications to support traffic for the Encina Power Station Demolition.

Transportation Routes and Access

3.3 Emergency Vehicle Access

Emergency vehicles (Figure 3) will have access to the site through the SDG&E service yard gate off of Cannon Road, as well as from the existing driveway on Carlsbad Boulevard.

Traffic Control and Procedures

No temporary lane closures are expected for the Encina Power Station Demolition; however, if temporary lane closures are determined to be necessary, the contractor will coordinate with the City of Carlsbad to develop lane closure plans at that time.

The following traffic control measures will be implemented:

- Only authorized access through the site is allowed. Safety signs will be posted in conformance with applicable state and federal regulations, and, when necessary, around all equipment, transformers, and other high-voltage facilities.
- Construction delivery trucks will be staggered throughout the day to avoid queuing onto public roadways
- Truck traffic will be managed in compliance with the City of Carlsbad permit requirements
- Flagmen will be used at all entrances and exits when trucks must make left turns across streets with no traffic signals. As applicable flagmen will assist with pedestrian access.
- In compliance with TRANS-4: Crossing Safety Plan, vehicles, equipment, and pedestrian foot traffic must cross railway tracks only at the established Railroad crossing and only under the direct supervision of a safety crossing monitor/flag man. Large trucks (e.g., lowboys) will not be allowed to use the private rail crossing. Lowboys will be required to access the Encina Power Station Demolition site via the Cannon Road Gate 3 entrance only, and not use the private rail crossing on the EPS property. For oversize vehicles or trucks that may take extra time to cross the tracks, the rail crossing safety monitor/flag man will hold the traffic until there is adequate time to complete the cross safely and before any scheduled trains may arrive. A flag man will also be used for trucks traveling eastbound on Cannon Road from the SDG&E service gate to cross the railroad tracks.
- Truck trips will be scheduled to occur outside of the morning and afternoon peak hour. The field construction manager will coordinate with the City of Carlsbad Transportation Department to determine the appropriate peak hour restrictions.
- Traffic patterns and safety of operations will be monitored by the field construction manager and modifications will be made to travel routes, traffic control measures, and transport scheduling as necessary to address changes in conditions in real time
- While at the site, vehicles will be required to maintain slow speeds for safety purposes and for dust control measures
- Trucks transporting waste will be restricted to the primary heavy haul route at all times for travel offsite truck routes are shown in Figure 2
- Safety at the main entrance will be addressed by prohibiting stopping/parking and not allowing construction material storage near the entrance
- A security guard will be stationed at active construction entrances and exits during Encina Power Station Demolition activities
- No changes to or near the existing main entrance are proposed and emergency access will not be affected. Emergency access will continue to be maintained at the site at all times (Figure 3).
- Truck drivers will be required to minimize unnecessary stops on public roadways, to maintain speeds no greater than posted speed limits, and to operate their vehicles in ways that minimize excessive noise and emissions

SECTION 4

Traffic Control and Procedures

- Truck facilities (e.g., waiting areas, inspection areas, etc.) will be located on the property and away from public roads
- No signs, lighting, and/or traffic control devices will be needed during Encina Power Station Demolition activities
- No road/lane closures or detour routes during Encina Power Station Demolition activities are anticipated. The contractor would be required to notify local emergency service providers (City of Carlsbad Police and Fire departments) and the local transit provider (NCTD) of any road closures and suggest alternate detour routes. Access to commercial or residential properties is not expected to be affected. However, if access to these properties is affected, the contractor will notify affected parties as necessary to minimize any impacts on access to their properties.
- All trucks entering and leaving the property will be covered as necessary
- All applicable local, state, and federal traffic control measures will be followed to ensure the safety of the local and construction traffic. Trucks will follow all applicable traffic laws and obey posted signs.
- The Project Owner will obtain all necessary transportation permits

SECTION 5

Contacts

The following is a list of contacts that, if needed, could be utilized for implementation of this CTCIP:

- California Highway Patrol, Border Division, Oceanside (650). 1888 Oceanside Blvd., Oceanside, CA 92054, (760) 757-1675
- Caltrans, District 11, 4050 Taylor Street, San Diego, CA 92110, (619) 688-6699
- City of Carlsbad Fire Department, 2560 Orion Way, Carlsbad, CA 92010, (760) 931-2141
- City of Carlsbad Police Department, 2560 Orion Way, Carlsbad, CA 92010, (760) 931-2197
- San Diego County Sheriff (non-Emergency) 858-565-5200
- City of Carlsbad, Transportation Department, Traffic Operations Division, 1635 Faraday Avenue, Carlsbad, CA 92008, (760) 602-2730
- North County Transit District (NCTD), 205 South Tremont Street, Oceanside, CA, 92054, (760) 966-6700
- Website: <http://www.gonctd.com/system-map>
- United States Environmental Protection Agency (EPA). Regional Emergency Response Office, Region 9, 24-hour Environmental Emergencies, (800) 300-2193 and San Diego Border Office, (619) 235-4765

SECTION 6

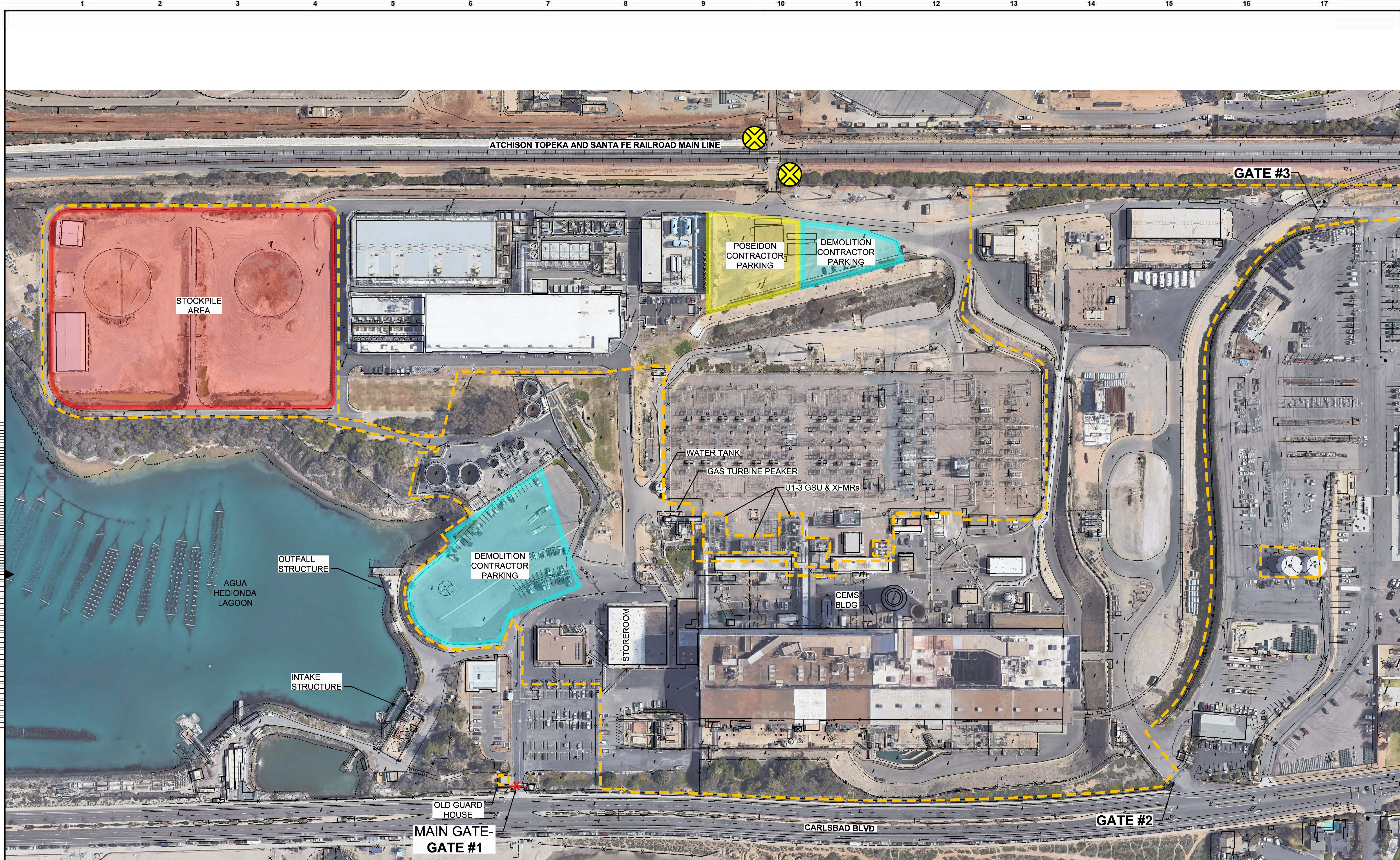
References

Carlsbad Energy Center LLC. 2007. Application for Certification for Carlsbad Energy Center Project. Submitted to the California Energy Commission on September 11, 2007.

Carlsbad Energy Center LLC. 2014. Petition to Amend for Carlsbad Energy Center Project. Submitted to the California Energy Commission on May 1, 2014.

Carlsbad Energy Center LLC. 2015. TRANS-4 Crossing Safety Plan for the Amended Carlsbad Energy Center Project. November 2015.

California Energy Commission, Carlsbad Energy Center Project Amendment Final Decision, Docket Number 07-AFC-06C, July 2



no.	date	by	ckd	description
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**BURNS
MCDONNELL**

1431 OPUS PLACE, SUITE 400
DOWNERS GROVE, ILLINOIS 60515
630-724-3200

date	SEPTEMBER 18, 2019	detailed	D. CHAVEZ
designed	H. HINKE	checked	D. BARRIS

nrg

CABRILLO POWER I LLC
4600 CARLSBAD BLVD
CARLSBAD, CALIFORNIA

ENCINA POWER STATION
Figure 1

project	115381	contract	-
drawing	-	rev.	-
sheet	of	sheets	-
file	FIG_1.DWG		

LEGEND

- DEMOLITION LIMITS OF WORK
- FENCE
- POSEIDON WORK ZONE
- CONTRACTOR PARKING/ LAY DOWN AREA
- STOCKPILE AREA
- NRG PARKING AREA
- RESTRICTED ACCESS ROAD & GATES TO DEMOLITION CONTRACTOR CONTRACTOR ENTRANCE GATES
- GATE #**
- BUILDING
- RAILROAD CROSSING

