DOCKETED	
Docket Number:	16-AFC-01C
Project Title:	Stanton Energy Reliability Center - Compliance
TN #:	226411
Document Title:	AQ-SC2, Air Quality ConstructionDemolition Mitigation Plan (AQCMP)
Description:	N/A
Filer:	Marichka Haws
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	1/31/2019 10:43:00 AM
Docketed Date:	1/31/2019

CALIFORNIA ENERGY COMMISSION
1516 NINTH STREET
SACRAMENTO, CA 95814-5512
www.energy.ca.gov

November 19, 2018

Greg Lamberg
Compliance Manager
W Power
650 Bercut Drive, Suite A
Sacramento, CA 95811

SUBJECT: Stanton Energy Reliability Center (16-AFC-01C), AQ-SC2, Air Quality Construction/Demolition Mitigation Plan (AQCMP)

Dear Mr. Lamberg,

In accordance with AQ-SC2, the CPM has reviewed and approved the Air Quality Construction/Demolition Mitigation Plan (AQCMP). If you have any questions or concerns, please contact John Heiser, Compliance Project Manager, at (916) 653-8236, or by fax to (916) 654-3882, or via e-mail at John.Heiser@energy.ca.gov.

Sincerely,

John Heiser
Compliance Office Manager
Siting, Transmission, & Environmental Protection Division

Air Quality Construction Mitigation Plan

Conditions of Certification AQ-SC2 to AQ-SC5

For the

Stanton Energy Reliability Center

Stanton, California

16-AFC-01

October 2018

Stanton Energy Reliability Center, LLC

JACOBS

Stanton Energy Reliability Center

Document Title:	Air Quality Construction Mitigation Plan - Conditions of Certification AQ-SC2 through AQ-SC5
Revision:	Document Version
Date:	October 2018
Client Name:	Stanton Energy Reliability Center, LLC
Project Manager:	Doug Davy
Author:	Jerry Salamy

Jacobs Engineering Group Inc.

2485 Natomas Park Drive, Suite 600
Sacramento, CA 95833
United States
T +1.916.920.0300
www.jacobs.com

Contents

Figures

Acronyms and Abbreviations

AQCMM	Air Quality Construction/Demolition Mitigation Manager
AQCMP	Air Quality Construction Mitigation Plan
CARB	California Air Resources Board
CEC	California Energy Commission
CPM	Compliance Project Manager
CTG	Combustion Turbine Generator
SCE	Southern California Edison
SERC	Stanton Energy Reliability Center

1. Introduction

Stanton Energy Reliability Center, LLC (Owner) has prepared this Air Quality Construction Mitigation Plan (AQCMP) for the Stanton Energy Reliability Center (SERC) in Orange County, California. This AQCMP is applicable to the construction activities associated with the California Energy Commission's (CEC's) SERC Final Decision (16-AFC-01C; November 2018) and has been prepared in accordance with Condition of Certification AQ-SC2.

The SERC will be constructed at 10711 Dale Avenue in Stanton, Orange County, California (Figures 1 and 2). The SERC facility will be located on an approximately 3.98-acre site. The proposed project site is bounded to the north by a vacant lot that serves as a Southern California Edison (SCE) transmission line right-of-way and commercial/light industrial uses; to the east by Dale Avenue and the SCE Barre Peaker power plant and beyond that, SCE Barre Substation; to the south by Union Pacific Railroad tracks and a commercial storage facility; and to the west by the City of Stanton Corporate Yard.

The SERC will be a natural-gas-fired, simple-cycle electrical generating facility consisting of two hybrid enhanced gas turbines with battery storage capabilities. Project linear features include a 0.35 mile underground electrical interconnection to the Southern California Edison (SCE) Barre Substation, a 2.75-mile natural gas pipeline to Southern California Gas Line 1014 located in La Palma Avenue, and existing potable/process water/sanitary pipelines located at Dale Avenue and Pacific Street.

A temporary construction laydown and parking area approximately 3 acres in size will be located 350 feet south of the project site at 10801 Dale Avenue.

2. Air Quality Construction Mitigation Plan

The requirements of the AQCMP were issued by the CEC in the SERC Final Decision (16-AFC-01C; November 2018). Requirements outlined in the Final Decision for AQ-SC1 through AQ-SC5 are addressed below:

- Condition of Certification AQ-SC1 requires an Air Quality Construction/Demolition Mitigation Manager (AQCMM) responsible for implementation and compliance with conditions AQ-SC3, AQ-SC4 and AQ-SC5.
- Condition of Certification AQ-SC2 requires the preparation of an AQCMP that details the measures to ensure compliance with Conditions of Certification AQ-SC3, AQ-SC4, and AQ-SC5.
- Condition of Certification AQ-SC3 specifies the proposed construction mitigation measures and contingency control measures for fugitive dust emissions control outlined in Attachment 2. Documentation of all fugitive dust mitigation measures must be identified in the AQCMP.
- Condition AQ-SC4 requires the AQCMM or AQCMM Delegate to monitor the site and all activities for visible dust plumes. The presence of dust plumes transported off the project site or within 100 feet of regularly inhabited buildings not owned by the Project Owner are a sign of ineffective mitigation. It is the responsibility of the AQCMM (or AQCMM Delegate) to address the plumes with the stated appropriate measures.
- Condition of Certification AQ-SC5 requires the mitigation of particulate matter and oxides of nitrogen from all off-road diesel construction equipment. The Condition requires that equipment have the cleanest engines available and be California Air Resources Board (CARB) compliant and documented in the AQCMP. Tier 4/4i or Tier 3 engines are preferred for the highest level of emission reduction. If Tier 4 or Tier 3 engines are deemed not practical, Tier 2 engines with the highest level of CARB and U.S. Environmental Protection Agency verified retrofit control devices are acceptable.

To meet the Conditions of Certification outlined by the CEC in the Final Commission Decision, as well as local mitigation requirements of the South Coast Air Quality Management District, the AQCMM will implement this AQCMP. A copy of this plan shall be kept on site during construction activities.

Property Owner	Stanton Energy Reliability Center, LLC
Address	650 Bercut Drive, Suite C
City / State / Zip	Sacramento, CA 95811
Phone	(916) 492-9486 Fax

Developer	Stanton Energy Reliability Center, LLC
Address	650 Bercut Drive, Suite C
City / State / Zip	Sacramento, CA 95811
Contact Person	Kara Miles
Phone	(916) 492-9486 Fax

General Contractor	To Be Determined
Address	
City / State / Zip	
Contact Person	
Phone	Fax

This Air Quality Construction/Demolition Mitigation Plan Prepared by:

Name	Hong Zhuang
Title	Air Quality Specialist
Company Name	Jacobs Engineering Group
Address	2600 Michelson Dr #500
City / State / Zip	Irvine, CA 92612
Phone	(714) 429-2000 x36349 Fax

Contractors. Please provide the names, addresses, and phone numbers of each contractor involved in dust-generating activities as part of this project or those performing dust control.

1.	Name: Address City, State, ZIP Name Phone #	To Be Determined
2.	Name Address City, State, ZIP Name Phone #	To Be Determined

Responsible party for mitigation plan implementation:

☒ Property Owner ☐ Developer ☐ General / Prime Contractor

☐ Sub-Contractor(s) Other: _____

Primary Project Contact	Kara Miles				
Title	President, W Power				
Company Name	Stanton Energy Reliability Center, LLC				
Address	650 Bercut Drive, Suite C				
City	Sacramento	State	CA	Zip	95811
On-Site Phone	(916) 492-9486	Mobile Phone	(916) 716-9451		
Pager					

AQCMM	Hong Zhuang				
Company Name	Jacobs Engineering Group				
Address	2600 Michelson Dr #500				
City	Irvine	State	CA	Zip	92612
Office Phone	(714) 429-2000 x36349	Mobile Phone	(949) 394-7845		
Pager					

The following is a description of the total area of land to be disturbed in acres of the entire project site.

Total area of land surface to be disturbed	7.76	Acres

The following are the expected start and completion dates of construction activities to be performed on the site.

Expected project start date	January 2019
Expected Project completion data	December 2019 (with 2 months commissioning Jan-Feb 2020)

Attachments

The following attachments are included as part of the SERC AQCMP:

Attachment 1: Project Location Figures
Figure 1 - Regional Location Map
Figure 2 - Site Location Map

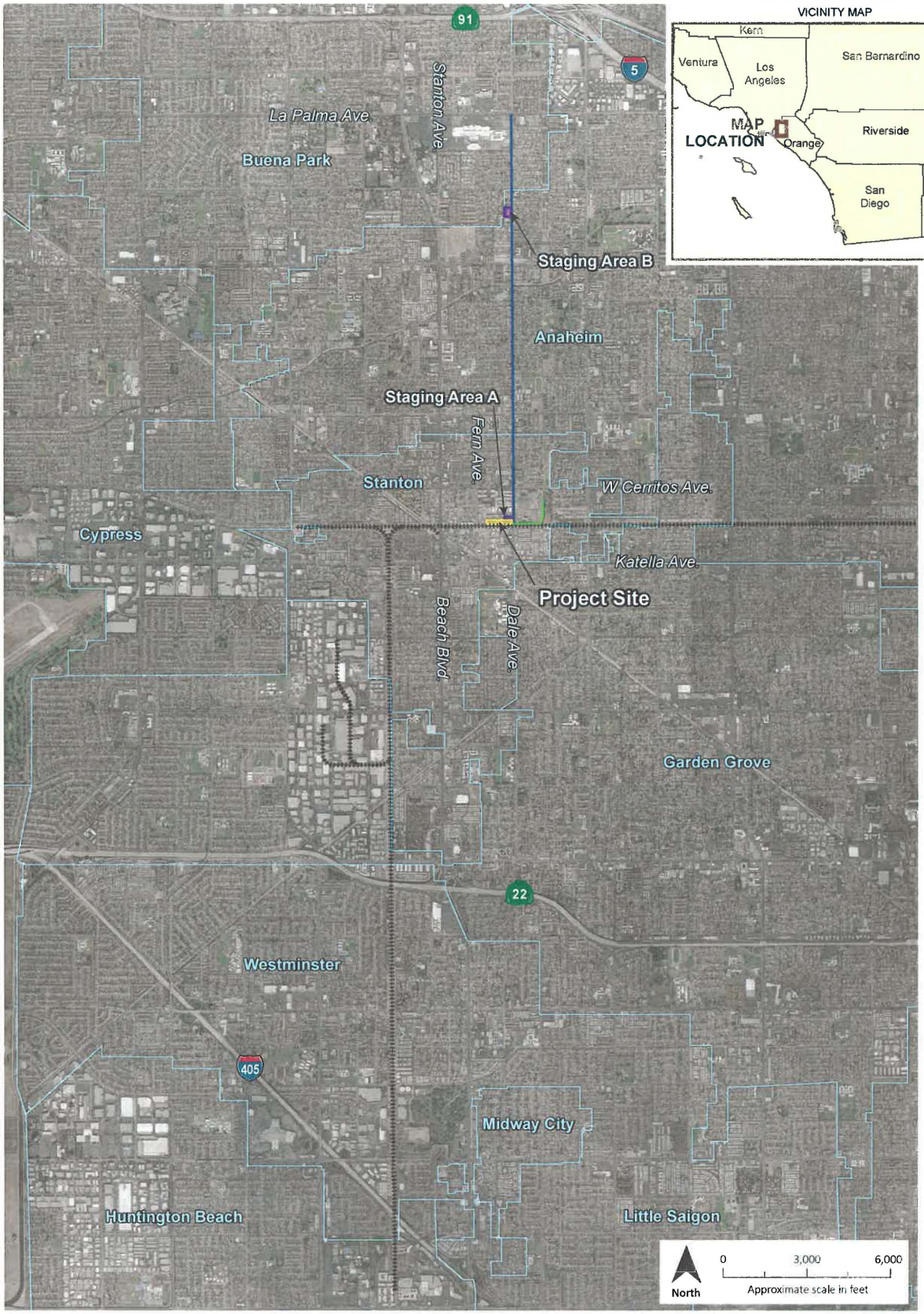
Attachment 2: Methods of Complying with CEC Final Mitigation Requirements

CERTIFICATION

I certify that all information contained herein and information submitted in attachments to this document is true and correct.

Print or type name of responsible official	Kara Miles
Signature of responsible official	
Title of responsible official	President, W Power
Phone (916) 492-9486	Date 10-29-12

Attachment 1
Project Location Figures



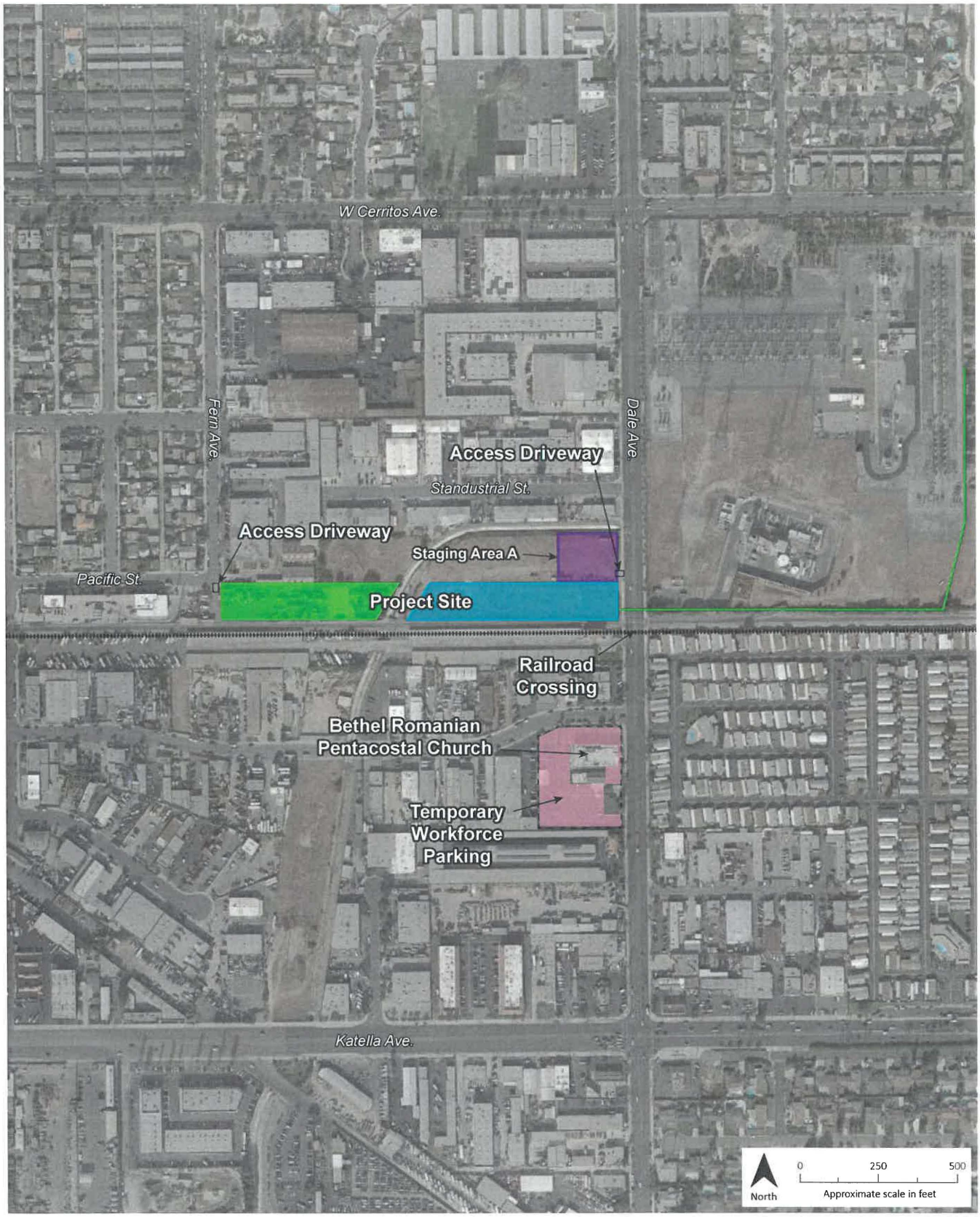
Aerial image source: Google™ Earth, 2018.

LEGEND

- City Limits
- Natural Gas Pipeline
- Generator Tie-Line
- Project Site
- Natural Gas Pipeline Staging Area

Figure 1
Project Location Map
Stanton Energy Reliability Center
Stanton, California

ch2m



Aerial image source: Google™ Earth, 2018.

LEGEND

- Natural Gas Pipeline
- Generator Tie-Line
- UPRR Union Pacific Railroad
- Parcel 1
- Parcel 2
- Temporary Workforce Parking

Figure 2
Site Location Map
Stanton Energy Reliability Center
Stanton, California

ch2m

Attachment 2

Methods of Complying with CEC Final Mitigation Requirements

Methods of Complying with
CEC Final Mitigation Requirements
Stanton Energy Reliability Center (16-AFC01C)
Construction Conditions of Certification Applicable to Fugitive Dust Control

Methods of Complying with CEC Final Mitigation Condition of Certification AQ-SC3

CEC Requirement	Satisfied by SCAQMD Requirements?	SCAQMD Rule 403 Requirement	SCAQMD CEQA Requirement
a) All unpaved roads and disturbed areas in the project and linear construction sites shall be watered as frequently as necessary to comply with the dust mitigation objectives of Condition of Certification AQ-SC4. The frequency of watering can be reduced or eliminated during periods of precipitation.	Yes. Paving, watering, or stabilizing unpaved roads.	No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation. (Rule 403 (d)(2)).	Pave unpaved roads and unpaved parking areas. (Table XI-D). Apply chemical dust suppressant annually to unpaved parking areas. (Table XI-D). Pave unpaved roads and unpaved parking areas. (Table XI-D). Apply water every 3 hours to disturbed areas within a construction site.\ (Table XI-A)
b) No vehicle shall exceed 10 miles per hour on unpaved areas within the construction site.	No. Speed limit of 10 miles per hour signs will be posted.	None.	Limit on-site vehicle speeds (on unpaved roads) to 15 mph. (Table XI-A)
c) Visible speed limit signs shall be posted at the construction site entrances.	No. Speed limit signs will be posted.	None.	None.
d) All construction equipment vehicle tires shall be inspected and washed as necessary to be cleaned free of dirt prior to entering paved roadways.	Yes.	At the egress of the site to a paved road, install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site (Rule 403 (d)(5)(D)).	None.
e) Gravel ramps of at least 20 feet in length must be provided at the tire washing/cleaning station.	No. Gravel ramps will be installed.	None.	None.
f) All unpaved exits from the construction site shall be graveled or treated to prevent track-out to public roadways.	Yes.	Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long. (Rule403 (d)(5)(A)). Pave the surface extending at least 100 feet and at least 20 feet wide. (Rule 403(d)(5)(B)).	Use a gravel apron, 25 feet long by road width, to reduce mud/dirt track-out from unpaved truck exit routes. (Table XI-A)

Methods of Complying with CEC Final Mitigation Condition of Certification AQ-SC3

CEC Requirement	Satisfied by SCAQMD Requirements?	SCAQMD Rule 403 Requirement	SCAQMD CEQA Requirement
g) All construction vehicles shall enter the construction site through the treated entrance roadways, unless an alternative route has been submitted to and approved by the CPM.	Yes.	Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long. (Rule403 (d)(5)(A)). Pave the surface extending at least 100 feet and at least 20 feet wide. (Rule 403(d)(5)(B)).	None.
h) Construction areas adjacent to any paved roadway shall be provided with sandbags or other similar measures as specified in the Storm Water Pollution Prevention Plan (SWPPP) to prevent run-off to roadways.	No. Sandbags or other similar erosion control measures will be installed per the Construction SWPPP.	None.	None.
i) All paved roads within the construction site shall be swept at a frequency determined by the AQCMM on days when construction activity results in tracking to prevent the accumulation of dirt and debris to minimize dust plumes.	No. Sweeping onsite paved roads and entrance roads on an as-needed basis.	None.	Implement street sweeping program with Rule 1186 compliant PM10 efficient vacuum units (14-day frequency) (Table XI-C).
j) At least the first 500 feet of any paved public roadway exiting the construction site, laydown areas, or construction staging areas, shall be swept at a frequency determined by the AQCMM on days when construction activity results in tracking to prevent the accumulation of dirt and debris to minimize dust plumes or on any other day when dirt or runoff resulting from the construction site activities is visible on the public roadways.	No.	No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift (Rule 403 (d)(4)).	None.
k) All soil storage piles and disturbed areas that remain inactive for longer than ten days shall be covered, or treated with appropriate dust suppressant compounds.	Yes. Applying dust suppressants or covers to soil stockpiles when inactive for more than 2 weeks.	None.	Apply chemical soil stabilizers on inactive construction areas (disturbed lands within construction projects that are unused for at least four consecutive days) (Table XI-E).

Methods of Complying with CEC Final Mitigation Condition of Certification AQ-SC3

CEC Requirement	Satisfied by SCAQMD Requirements?	SCAQMD Rule 403 Requirement	SCAQMD CEQA Requirement
l) All vehicles that are used to transport solid bulk material on public roadways and that have potential to cause visible emissions shall be covered, or the materials shall be sufficiently wetted and loaded onto the trucks in a manner to provide at least two feet of freeboard, so that no visible emissions occur.	Yes. Covering truck loads when hauling material that could be entrained during transit.	Stabilize material while loading; and maintain at least six inches of freeboard on haul vehicles; and stabilize material while transporting; and stabilize material while unloading; and comply with Vehicle Code Section 23114 (Rule 403 BACM-09).	All trucks hauling dirt, sand, soil, or other loose materials are to be tarped with a fabric cover and maintain a freeboard height of 12 inches (Table XI-A).
m) Wind erosion control techniques (such as windbreaks, water, chemical dust suppressants, and/or vegetation) shall be used on all construction areas that may be disturbed. Any windbreaks installed to comply with this condition shall remain in place until the soil is stabilized or permanently covered with vegetation.	Yes. Frequent watering during periods of high winds when excavation/grading is occurring.	Stabilize disturbed soil throughout the construction site; and stabilize disturbed soil between structures.	Plant tree windbreaks on the windward perimeter of construction projects if adjacent to open land. Plant vegetative ground cover in disturbed areas as soon as possible (Table XI-E).
n) Disturbed areas shall be re-vegetated as soon as practical.	No	None	None