1 4.3 Air Quality

This section describes the environmental and regulatory setting and discusses impacts associated
with the construction and operation of the Santa Barbara County Reliability Project (proposed
project) with respect to air quality. Impacts that the proposed project may have on air quality are
discussed in this section, as well as in Sections 4.7, "GHG Emissions," 4.8, "Hazards and Hazardous
Materials," and 4.15, "Transportation/Traffic."

89 4.3.1 Environmental Setting

10

11 Air quality at a given location is a function of several factors, including amounts and types of

12 pollutants emitted, both locally and regionally, and the dispersion rates of pollutants within the

13 region. Major factors affecting pollutant dispersion include wind speed and direction, atmospheric

14 stability, temperature, presence or absence of inversions, and topographic and geographic features

15 of the region. The proposed project would be located in a portion of the South Central Coast Air

16 Basin, which includes the counties of Ventura, Santa Barbara, and San Luis Obispo. The air above

the proposed project area often exhibits weak vertical and horizontal dispersion patterns, which

- 18 increases ambient air pollutant levels (VCAPCD 2003).
- 19

20 Air quality is regulated by federal, state, and local agencies (see Table 4.3-1). The Clean Air Act

21 (CAA) requires the U.S. Environmental Protection Agency (EPA) to set National Ambient Air Quality

22 Standards (NAAQS) for criteria pollutants that are emitted from numerous and diverse sources.

- 23 These pollutants are considered harmful to public health and the environment. The EPA has set
- 24 NAAQS for seven criteria pollutants: carbon monoxide (CO), lead, nitrogen dioxide (NO₂), ozone,
- 25 particulate matter less than or equal to 10 micrometers in diameter (PM_{10}) , particulate matter less
- than or equal to 2.5 micrometers in diameter (PM_{2.5}), and sulfur dioxide (SO₂). Ozone is not emitted

directly from emission sources, but is created in the atmosphere via a chemical reaction between

28 oxides of nitrogen (NO_x) and reactive organic gases (ROG)¹ in the presence of sunlight. As a result,

NO_X and ROGs are often referred to as ozone precursors and are regulated as a means of preventing r_{20}

30 ground-level ozone formation. In addition, the California Air Resources Board (CARB) has

31 established the California Ambient Air Quality Standards (CAAQS) for the criteria pollutants

mentioned above and other substances such as visibility-reducing particles, sulfates, hydrogen
 sulfide, and vinyl chloride.

34

Table 4.3-1 Summary of National and California Ambient Air Quality Standards

			NAAQS ²	
Pollutant	Averaging time	CAAQS ¹	Primary ³	Secondary ^{3,4}
	1-hour	0.09 ppm		Same as
03	8-hour	0.07 ppm	0.075 ppm	primary standard
	24-hour	50 μg/m ³	150 μg/m ³	Same as
PM ₁₀ (e)	Annual arithmetic mean	20 μg/m ³		primary standard

¹ In the State of California emissions of volatile organic compounds (VOCs) are commonly referred as Reactive Organic Gases (ROG). For the purposes of this report, the term ROG is used.

			NAAQS ²			
Pollutant	Averaging time	CAAQS ¹	Primary ³	Secondary ^{3,4}		
PM _{2.5} ⁵	24-hour		35 μg/m ³	Same as primary standard		
	Annual arithmetic mean	12 μg/m ³	12 μg/m ³	15 μg/m ³		
<u> </u>	1-hour	20 ppm	35 ppm			
CO	8-hour	9 ppm	9 ppm			
	1-hour	0.18 ppm	0.10 ppm			
NO2 ⁶	Annual arithmetic mean	0.03 ppm	0.053 ppm	Same as primary standard		
	1-hour	0.25 ppm	75 ppb			
SO- 7	3-hour			0.5 ppm		
5027	24-hour	0.04 ppm	0.14 ppm			
	Annual arithmetic mean		0.03 ppm			
	30-day average	1.5 μg/m ³				
Lead ⁸	Calendar Quarter		1.5 μg/m ³ (for certain areas) ^(j)	Same as primary		
	Rolling 3-month average		0.15 μg/m ³	standard		
Visibility-Reducing Particles ⁹	8-hour	Instrumental equivalent	n/a	n/a		
Sulfates	24-hour	25 μg/m ³	n/a	n/a		
Hydrogen Sulfide	1-hour	0.03 ppm	n/a	n/a		
Vinyl Chloride ¹⁰	24-hour	0.01 ppm	n/a	n/a		

Table 4.3-1 Summary of National and California Ambient Air Quality Standards

Notes:

¹ California standards for O₃, CO, SO₂, NO₂, and particulate matter (PM₁₀, PM_{2.5}, and visibility-reducing particles) are values not to be exceeded.

² National standards (other than O₃, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year.

³ National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

⁴ National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

⁵ On December 14, 2012, the national annual PM_{2.5} primary standard was lowered from 15 µg/m³ to 12 µg/m³.

⁶ To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. To directly compare the national 1-hour standard to the California standards, units were converted to ppm.

⁷ On June 2, 2010, a new 1-hour SO₂ standard was established.

⁸ CARB identified lead and vinyl chloride as toxic air contaminants, with no threshold level of exposure for adverse health effects determined.

⁹ CARB converted the general statewide visibility standard to instrumental equivalents, which is "extinction of 0.23 per kilometer."

¹⁰ The NAAQS for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 μ g/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard.

					NA	AQS ²
Po	ollutant	Averaging time	C	AAQS ¹	Primary ³	Secondary ^{3,4}
Source:	CARB 2013a					
Key:						
µg/m³	micrograms p	er cubic meter	PM _{2.5}	particulate m	natter with a diamet	ter of 2.5
CARB	California Air	Resources Board		micrometers	or less	
CO	carbon mono	kide	PM_{10}	M ₁₀ particulate matter with a diameter of 10		
NO_2	nitrogen diox	ide		micrometers	or less	
03	ozone		ppm	parts per mill	ion	
n/a	not applicable	2	SO ₂	sulfur dioxide	2	
NO ₂	nitrogen diox	ide	ppb	parts per billi	on	

Table 4.3-1 Summary of National and California Ambient Air Quality Standards

The EPA and the CARB compare ambient air criteria pollutant measurements with NAAQS and
 CAAQS to assess air quality at federal and state levels. Based on these comparisons, regions are
 placed in one of the following categories:

- Attainment A region is "in attainment" if monitoring shows that ambient concentrations of a specific pollutant are less than or equal to a standard. In addition, an area that has been redesignated from nonattainment to attainment is classified as a "maintenance area" for 10 years to ensure that the air quality improvements are sustained.
 - Nonattainment If the standards are exceeded for a pollutant, the region is designated as nonattainment for that pollutant.
 - Unclassifiable An area is unclassifiable if the ambient air monitoring data are incomplete and do not support a designation of attainment or nonattainment.

14 **4.3.1.1** Local Setting

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Existing sources of air pollutants in the project area (Santa Barbara County and Ventura County)
include commercial and industrial area sources, non-road mobile sources (e.g., off-highway
equipment), on-road mobile sources, and aircraft emissions. Table 4.3-2 summarizes the major air
pollutant emission sources and levels in the proposed project area.

19 j 20

Table 4.3-3 presents the federal and state attainment status for each of the ambient air criteria
pollutants in the proposed project area.

24 Santa Barbara County

As shown in Table 4.3-2, the largest contributor to locally generated air pollution in Santa Barbara

- 26 County is on-road mobile sources (cars and trucks). The remainder consists of other mobile
- 27 sources (planes, trains, boats, off-road equipment, farm equipment); the evaporation of solvents;
- 28 combustion of fossil fuels; surface cleaning and coating; prescribed burning; and petroleum
- 29 production and marketing (SBCAPCD 2010).
- 30
- 31 Santa Barbara County's air quality has historically violated both the state and federal ozone
- 32 standards. Ozone concentrations above these standards adversely affect public health, diminish the
- 33 production and quality of many agricultural crops, reduce visibility, and damage native and
- ornamental vegetation. Table 4.3-4 shows the reported days on which both national and state
- 35 standards were exceeded in Santa Barbara County during the year 2012.

	Air Pollutant Emissions (tons per day)					
Emission Sources	ROG	СО	NO _x	SOx	PM ₁₀	PM _{2.5}
Santa Barbara County						
Stationary Sources	9.9	7.0	7.3	4.4	1.0	0.5
Area-wide Sources	10.6	32.0	2.1	< 0.1	21.0	7.3
Mobile Sources	16.5	125.9	82.2	32.1	6.0	5.6
Total Emissions Santa Barbara	27.0	164.0	01.6	265	27.0	12 /
County	37.0	104.9	91.0	30.3	27.9	13.4
Ventura County						
Stationary Sources	11.5	9.4	4.7	0.6	1.3	0.9
Area-wide Sources	12.9	22.2	1.7	0.1	22.2	5.4
Mobile Sources	22.7	163.3	56.8	12.4	4.1	3.6
Total Emissions Ventura County	47.2	194.9	63.2	13.1	27.7	9.9

Table 4.3-2 Estimated Annual Average Emissions in the Proposed Project Area (Year 2010)

Source: CARB 2013b.

Notes:

¹ Stationary sources include: fuel combustion, waste disposal, cleaning and surface coatings, petroleum production and marketing, and industrial processes.

² Årea-wide sources include: solvent evaporation and miscellaneous processes.

³ Mobile sources include: On-road motor vehicles and other mobile sources.

Key:

CO carbon monoxide

NO_X oxides of nitrogen

particulate matter with a diameter of 10 micrometers or less PM_{10}

particulate matter with a diameter of 2.5 micrometers or less PM_{2.5}

reactive organic gases ROG

SOx oxides of sulfur

Table 4.3-3 Area Designations within the Proposed Project Area

	Ventura County		Santa Barb	ara County	
Pollutant	NAAQS	CAAQS	NAAQS	CAAQS	
Ozone	NA	NA	A/U	NA	
PM10	U	NA	U	NA	
PM _{2.5}	U	<u>N</u> A	U	U	
СО	A/U	А	A/U	А	
NO ₂	A/U	А	A/U	А	
SO ₂	А	А	U	А	
Lead	A/U	А	A/U	А	
Hydrogen Sulfide		А		U	
Sulfates		А		А	
Visibility-Reducing Particles		U		U	

Sources: CARB 2013b

Key:

А attainment

attainment/unclassifiable A/U

carbon monoxide CO

NA nonattainment

 NO_2 nitrogen dioxide PM_{2.5} particulate matter with a diameter of 2.5 micrometers or less PM_{10} particulate matter with a diameter of 10 micrometers or less

sulfur dioxide SO_2 U

unclassifiable

	Criteria Air Pollutant – Days exceeding standard ⁽¹⁾					
Monitoring Location	Ozone			PM ₁	PM _{2.5}	
Monitoring Location	1-hour	8-hour	8-hour	24-hour	24-hour	24-hour
	CAAQS	NAAQS	CAAQS	NAAQS	CAAQS	NAAQS
Santa Barbara County						
Carpinteria	0	0	1	(*)	(*)	(*)
El Capitan Beach	0	0	0	0	0	(*)
Gaviota	0	0	0	(*)	(*)	(*)
Goleta-Fairview	0	0	0	0	0	(*)
Las Flores Canyon	0	2	4	0	0	(*)
Lompoc (station #1)	0	0	0	(*)	(*)	(*)
Lompoc (station #2)	0	0	0	(*)	3	(*)
Los Padres National Forest	0	0	2	(*)	(*)	(*)
Santa Barbara	0	0	0	(*)	(*)	0
Santa Maria	0	0	0	(*)	11	0
Santa Ynez	0	0	0	(*)	(*)	(*)
Vandenberg Air Force Base	0	0	0	0	0	(*)
Ventura County						
El Rio	0	0	0	0	6	0
Ojai	2	9	24	(*)	(*)	(*)
Piru	0	1	14	0	(*)	(*)
Simi Valley	3	14	24	0	0	0
Thousand Oaks	0	0	2	(*)	(*)	1

Table 4.3-4 Reported Exceedances of NAAQS and CAAQS in the Project Area (Year 2012)

Source: CARB 2013c

Notes:

¹Days reported by CARB as fractional values were rounded up to the nearest whole number.

 $^2\,PM_{10}$ statistics may include data that are related to an exceptional event.

* There was insufficient (or no) data available to determine the value.

Key:

CAAQS California Ambient Air Quality Standards

NAAQS National Ambient Air Quality Standards

PM_{2.5} particulate matter with a diameter of 2.5 micrometers or less

 $PM_{10} \qquad \text{particulate matter with a diameter of 10 micrometers or less}$

1

2 On August 8, 2003, Santa Barbara County officially became an attainment area for the federal 1-

3 hour ozone standard. On June 15, 2004, the EPA replaced the federal 1-hour ozone standard with

4 an 8-hour ozone standard for Santa Barbara County and most parts of the country. Santa Barbara

5 County was designated in attainment with the federal 8-hour ozone standard, and the 2007 Clean

6 Air Plan provided for maintenance of this standard; however, as shown in Table 4.3-3, the county

- 7 remains in non-attainment for ozone for the state-level CAAQS.
- 8

9 The Santa Barbara County Air Pollution Control District (SBCAPCD) is the air pollution control

- 10 agency for Santa Barbara County.
- 11

12 Ventura County

- 13 In Ventura County, ozone generally reaches peak levels by mid-afternoon and, along with ozone
- 14 precursors, is often blown inland by the prevailing winds. Thus, inland areas such as Simi Valley,
- 15 Thousand Oaks, Ojai, Fillmore, and Piru often have higher ozone levels and a greater number of

- 1 days exceeding the federal and state ozone standards than the county's coastal areas. The
- 2 smoggiest days tend to occur from May through October, when high temperatures and stable
- 3 atmospheric conditions produce conditions conducive to ozone formation and accumulation
- 4 (VCAPCD 2008).
- 5
- 6 Ventura County is a nonattainment area for the federal 8-hour ozone standard, as well as for the
- 7 California 1-hour and 8-hour ozone standards. The Ventura County 8-hour ozone nonattainment
- area includes all of mainland Ventura County (including ocean areas out to 3 miles from the
- 9 mainland shore) but excludes Anacapa and San Nicolas Islands (VCAPCD 2008). Air quality in
 10 Ventura County has improved dramatically since 1990, despite the increase in population. In 1990,
- 11 there were 70 violations countywide of the federal 8-hour ozone standard, but only 11 in 2005, 17
- 12 in 2006, and 6 in 2007 (VCAPCD 2008). Table 4.3-4 shows the reported days on which both
- 13 national and state standards were exceeded in Ventura County during the year 2012.
- 14
- The Ventura County Air Pollution Control District (VCAPCD) is the air pollution control agency forVentura County.
- 17

18 **4.3.2 Regulatory Setting**

19

This subsection summarizes federal, state, and local laws, regulations, and standards that govern
air quality in the project area.

22

23 **4.3.2.1** Federal

24

25 Federal Clean Air Act

26 The Clean Air Act of 1970 (CAA) (42 United States Code §§7401-7641) (last amended in 1990 [104

27 Stat. 2468, P.L. 101-549]), defines the EPA's role in managing air quality in the United States. Under

the CAA, the EPA promulgated the NAAQS (40 Code of Federal Regulations Part 50), setting limits
 on the acceptable ambient concentrations for each of the federally identified criteria air pollutants.

30

Similar to the CAA, the California Clean Air Act of 1988 (CCAA) (Stats. 1988, Ch. 1568) requires all
 air quality planning regions to achieve and maintain the California Ambient Air Quality Standards
 (CAAOS) by the earliest date practicable. The CCAA also requires that air quality regions that have

- (CAAQS) by the earliest date practicable. The CCAA also requires that air quality regions that have
- 34 failed to meet the CAAQS work with the California Air Resources Board (CARB) to prepare State

35 Implementation Plans demonstrating when and how the CAAQS will be met.

- 36 37 **4.3.2.2 State**
- 38

39 California Clean Air Act

40 CARB, a part of the California Environmental Protection Agency, is responsible for interpreting and

- 41 implementing state statutes that manage air pollution. CARB gathers air quality data for the State of
- 42 California, ensures the quality of the data, designs and implements air models, sets ambient air
- 43 quality standards for the state, compiles the state's emissions inventories, and performs air quality
- 44 and emissions inventory special studies. CARB is responsible for monitoring the regulatory activity
- 45 of California's 35 local and regional air pollution control districts. These districts regulate
- 46 stationary emissions sources (i.e., industrial pollution sources), issue air quality permits, develop
- 47 local air quality plans, and ensure that industries under their jurisdiction adhere to air quality
- 48 mandates.

1 4.3.2.3 Local

2 3 Santa Barbara County Air Pollution Control District 2010 Clean Air Plan

The Santa Barbara County Air Pollution Control District's (SBCAPCD) 2010 Clean Air Plan, adopted by the County in January 2011, presents the County's goals and a cost-effective emissions control strategy for attaining the state 8-hour ozone standard, based on countywide air quality baseline conditions and future growth projections. This plan satisfies the triennial update in compliance with the requirements of the California Clean Air Act, to attain the state standard (Health and Safety Code, sections 40924 and 40925). The plan does not address any specific federal planning requirements because Santa Barbara was designated as a maintenance area for the federal 8-hour

- 11 ozone standard (SBCAPCD 2010).
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- 13 The 2010 Clean Air Plan provides air quality information, a baseline emissions inventory, future
- 14 year emissions estimates for 2020 and 2030, strategies for reducing emissions from transportation
- and land use sources, and proposed rules to be enforced by the APCD to attain the proposed
- 16 emission reduction goals. More specifically, the emission reduction measures presented in this
- 17 plan include controls on all inventory categories contributing ROG and NO_X emissions: industrial
- 18 processes, combustion sources, petroleum handling, solvent use, consumer products, waste
- 19 burning, and mobile sources (SBCAPCD 2010).
- 20
- 21 The County anticipates that onshore emissions of ROGs and NO_x will continue to decrease through
- 22 2030, due primarily to on-road mobile source emission reduction measures. In addition, the
- 23 County expects a slight decrease in NO_X and a slight increase in ROG emissions due to marine
- shipping activities in the area (SBCAPCD 2010).
- 25

26 SBCAPCD Rule 345: Control of Fugitive Dust from Construction and Demolition Activities

27 This rule applies to activities associated with construction or demolition of structures, including

28 requirements and standards for visible fugitive dust emissions beyond the property line, truck

29 hauling, and demolition. Under this rule, any construction, earth-moving, or demolition activities

shall not discharge visible dust emissions beyond the property line of 20 percent opacity or greater
 for periods aggregating more than 3 minutes in any 60 minute period.

31 32

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33 Moreover, this rule also establishes the following standards applicable to the proposed project: 34

- For truck hauling, at least one of the following dust prevention techniques shall be utilized:
- Use properly secured tarps or cargo covering that covers the entire surface area of load or use a container-type enclosure.
- Maintain a minimum of 6 inches of freeboard below the rim of the truck bed where the
 load touches the sides of the cargo area and ensure that peak of the load does not extend
 above any part of the upper edge of the cargo area.
- 41 Water or otherwise treat the bulk material to minimize loss of material to wind or 42 spillage.
- 43 Other effective dust prevention control measures approved in writing by the Control
 44 Officer.

- 1 For vehicle track-out/carry-out, spillage from transport trucks and erosion shall be • 2 controlled by implementing these measures: 3 Visible roadway dust shall be minimized by the use of any of the following track-4 out/carry-out and erosion control measures: track-out grates or gravel beds at each 5 egress point, wheel-washing at each egress point during muddy conditions, soil binders, 6 chemical soil stabilizers, geotextiles, mulching, or seeding; and 7 Visible roadway dust shall be removed at the conclusion of each work day when bulk _ 8 material removal ceases, or every 24 hours for continuous operations. If a street sweeper is 9 used to remove any track-out/carry-out, only a PM_{10} -Efficient Street Sweeper shall be used. The use of blowers for removal of track-out/carry-out is prohibited. 10 For demolition (applicable to foundations/structure removal) the following work practice 11 • 12 standards shall be followed: 13 As necessary to prevent visible emissions, the structure shall be wet (with sufficient quantities of water to prevent the generation of visible dust plumes) prior to removal. 14 15 Wetting shall continue as necessary during active removal and the debris reduction process (SBAPCD 2009). 16 17 18 Santa Barbara County Comprehensive Plan – Land Use Element and Air Quality Supplement 19 The Land Use Element of the Santa Barbara County Comprehensive Plan provides policy 20 recommendations integrating air quality planning techniques into the County's land use planning 21 program. The Land Use Measures presented in this plan are primarily focused on actions to reduce 22 automobile use and hence vehicular miles traveled from land use development within the County's 23 jurisdiction, contributing to a reduction in hydrocarbon, NO_x , and CO emissions. Implementation of 24 land use measures that result in reductions in automobile use can aid in the long-term 25 maintenance of good air quality once the federal air quality standards have been attained in Santa Barbara County. Although most of the measures identified in this Land Use Element are not fully 26 27 applicable to the proposed project, this document identifies the use of transportation modes such 28 as carpools or vanpools as an option available for commuters when jobs are located long distances 29 from housing (County of Santa Barbara 2009). 30 31 Santa Barbara County Environmental Thresholds and Guidelines Manual 32 Published in 2008, the Santa Barbara County Environmental Thresholds and Guidelines Manual 33 provides guidance to local and state agencies to determine whether a discretionary permit will 34 individually or cumulatively have a significant impact on air quality (SBCAPCD 2008). Quantitative 35 emission thresholds for long-term/operational emissions are provided in these guidelines and 36 further discussed in Section 4.3.3.1. In addition, the SBCAPCD has published complementary 37 guidelines for assessing and mitigating air quality impacts of development projects within the county jurisdiction, such as the Scope and Content of Air Quality Sections in Environmental 38 39 *Documents* (SBCAPCD 2011). These guidelines, published by both the County Planning Department 40 and the APCD, have been considered in the development of the air quality analysis presented in this 41 section. 42 43 Ventura County 2007 Air Quality Management Plan
- 44 Pursuant to the federal CAA Amendments of 1990, the Ventura County 2007 Air Quality
- 45 Management Plan (AQMP) presents Ventura County's: 1) strategy to attain the federal 8-hour
- 46 ozone standard; 2) attainment demonstration for the federal 8-hour ozone standard; 3) reasonable

- 1 further progress demonstration for the federal 8-hour ozone standard; and 4) transportation
- 2 conformity emissions budget for federal transportation conformity purposes. The 2007 AQMP also
- presents the 2003–2005 Triennial Assessment and Plan Update required by the CCAA (VCAPCD
 2008).
- 4 5
- 6 The 2007 AQMP provides practical control measures proposed as revisions to existing Ventura
- 7 County Air Pollution Control District (VCAPCD) rules. Most of the emission reductions that Ventura
- 8 County needs to attain the federal 8-hour ozone standard, and continue progress towards meeting
- 9 the state ozone standards, are considered as part of CARB's 2007 State Implementation Plan. This
- 10 plan is a comprehensive and far-reaching set of emission reduction programs that focus on mobile 11 sources, consumer products, and pesticides to significantly improve air quality throughout
- 12 California and meet federal clean air standards for ozone and $PM_{2.5}$ (VCAPCD 2008).
- 13

14 VCAPCD Rule 55 – Fugitive Dust

- 15 As part of the VCAPCD general and source-specific regulations, Rule 55 establishes the provisions
- 16 for any operation, disturbed surface area, or human-created condition capable of generating
- 17 fugitive dust, including activities applicable to the proposed project, such as bulk material handling,
- 18 earth moving, construction, structure removal, usage of storage piles, unpaved roads, and track-out
- 19 operations.
- 20
- 21 Rule 55 requires that emissions from any applicable source shall not remain visible beyond the
- 22 midpoint of a public street or road adjacent to the property line of the emission source, or beyond
- 23 50 feet from the property line when no roads are adjacent. This rule also establishes an opacity
- 24 limit of 20 percent from any applicable fugitive dust source, during observation periods of 3
- 25 minutes or more. More specifically, this rule requires implementation of dust prevention and
- 26 control measures that are applicable to the proposed project, such as those summarized in Table
- 4.3-5. The proposed project would only be exempted from these requirements in case of
- 28 emergency repairs and during public agency inspection of infrastructure.
- 29
- 30 Another related regulation applicable to the proposed project is Rule 55.1, which establishes
- 31 provisions for operating construction or earth-moving equipment that may cause fugitive dust
- 32 emissions on public unpaved roads within the VCAPCD jurisdiction. Visible roadway accumulations
- that occur on roads with fewer than 1,000 average daily trips (such as the access and spur roads
- 34 associated with the proposed project) are exempted from the VCAPCD material removal
- 35 requirements. However, this rule also includes requirements for construction and earth-moving
- 36 activities on unpaved roads, such as limits to visible emissions of 20 percent opacity or greater
- during observations over a period of 3 minutes or more in any single hour, or a visible dust plume
- that exceeds 100 feet in length.

Applicable	
Fugitive Dust	Ventura County
Source	APCD Rule 55 Requirements
Track-Out	 Track-out 25 feet or more in length is prohibited unless at least one of the following control measures is utilized: Track-Out Area Improvement: Pave or apply chemical stabilization at sufficient concentration and frequency to maintain a stabilized surface starting from the
	point of intersection with public paved surface, and extend for a centerline distance of at least 100 feet with an acceptable width to accommodate traffic ingress and egress from the site.
	 Track-Out Prevention: Check and clean the undercarriage and wheels on all vehicles before leaving unpaved surface or install a properly functioning and well- maintained track-out control device(s) that prevents track-out soil onto paved public roads.
	• Track-Out Removal: Remove track-out from pavement as soon as possible but not later than one hour after it has been deposited on the paved road. If a street sweeper is used to remove any track-out, only PM ₁₀ -efficient street sweepers cartified to most South Coast AOMD Pule 1186 requirements shall be used
	 All track-out shall be removed at the conclusion of each workday or evening shift subject to the same condition regarding PM₁₀ efficient street sweepers. The use of blowers for removal of track-out is prohibited
Earth Moving	No person shall engage in earth-moving activities in a manner that creates visible dust
Laith Moving	emissions over 100 feet in length.
Bulk Material Handling Facilities	Active operation with a monthly import or export of 2,150 cubic yards or more of bulk material requires implementation of at least one of the following measures at each vehicle egress from the site to a public paved road:
	• Install a pad consisting of washed gravel (minimum size: 1 inch) maintained in a clean condition to a depth of at least 6 inches and extending at least 30 feet wide and 50 feet long.
	• Pave the surface at least 100 feet long and at least 20 feet wide.
	• Utilize a wheel shaker/wheel spreading device, also known as rumble grate, consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and
	sufficient width to allow all wheels of vehicle traffic to travel over grate to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
	 Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
	 Any other control measure or device that prevents track-out onto public paved roads.
Truck Hauling	Loading of bulk materials or soil onto outbound trucks is subject to implementation of at least one of the following dust prevention techniques:
	• Use properly secured tarps or cargo covers over the entire surface area of the load, or use a container-type enclosure.
	• Maintain a minimum of 6 inches of freeboard below the rim of the truck bed where the load touches the sides of the cargo area and insure that the peak of the load does not extend above any part of the upper edge of the cargo area.
	• Water or otherwise treat the bulk material to minimize loss of material to wind or spillage.
	Other effective dust control measures.

Table 4.3-5 Ventura County Fugitive Dust Control Requirements Applicable to the Proposed Project

Source: VCAPCD 2008

1	Ventur	a County General Plan
2 3 4	The aiı 2011)	r quality goals, policies, and programs of the Ventura County General Plan (County of Ventura that apply to the proposed project are as follows:
5	Goals	
6 7 8	•	Diligently seek and promote a level of air quality that protects public health, safety, and welfare, and seek to attain and maintain the state and federal Ambient Air Quality Standards.
9 10 11	•	Ensure that any adverse air quality impacts, both long-term and short-term, resulting from discretionary development ² are mitigated to the extent feasible.
12	Policies	5
13 14	•	Discretionary development that is inconsistent with the 2007 AQMP shall be prohibited, unless overriding considerations are cited by the decision-making body.
15 16	•	The air quality impacts of discretionary development shall be evaluated by use of the Guidelines for the Preparation of Air Quality Impact Analysis.
17 18 19 20	•	Discretionary development that would have a significant adverse air quality impact shall only be approved if it is conditioned with all reasonable mitigation measures to avoid, minimize, or compensate (offset) for the air quality impact. Developers shall be encouraged to employ innovative methods and technologies to minimize air pollution impacts.
21 22 23 24	•	Where deemed necessary by the APCD, discretionary development shall be conditioned to develop, implement, and maintain over time, Transportation Demand Management programs consistent with the APCD's trip reduction rule <u>211-210</u> . These programs shall include a requirement for annual performance reporting to and approval by the APCD.
25 26 27 28	•	Development subject to APCD permit authority shall comply with all applicable APCD rules and permit requirements, including the use of best available control technology, as determined by the APCD.
29	Progra	ms
30 31 32 33 34 35 36	•	The VCAPCD will require employers subject to the VCAPCD's Trip Reduction Rule 210 to prepare and implement trip reduction plans. The purpose of these plans is to reduce the number of solo drivers commuting to work. Trip reduction strategies may include, but are not limited to, ridesharing promotion, modified work schedules, preferential parking, telecommuting, parking management, and van pools. The VCAPCD will continue to be involved with the annual review of the Congestion Management Program and has statemandated responsibility regarding review of deficiency plans.
27		

³⁷

² The Ventura County General Plan defines discretionary development as "any development proposal, project or permit which requires the exercise of judgment, deliberation, or decision on the part of the decision-making authority in the process of approving or disapproving a particular activity, as distinguished from situations where the decision-making authority merely has to determine whether there has been conformity with applicable statutes, ordinances, or regulations."

1 Ventura County Air Quality Assessment Guidelines

- 2 The Ventura County Air Quality Assessment Guidelines (VCAPD 2003) recommend specific criteria
- 3 and threshold levels for determining whether a proposed project may have a significant adverse air
- 4 quality impact. These guidelines also provide mitigation measures that may be useful for mitigating
- 5 the air quality impacts of proposed projects. Use of these guidelines is not required or mandated by
- 6 the VCAPCD. The final decision regarding whether to use these guidelines rests with the lead
- 7 agency responsible for approving the project. A discussion of applicable guidelines considered for
- 8 the analysis of the proposed project in Ventura County is provided in Section 4.3.3.1.
- 9

$10 \qquad {\rm City\ of\ Carpinteria\ Engineering\ Permit\ -\ Fugitive\ Dust\ Requirements}$

11 The City of Carpinteria Public Works Department requires for any engineering permit that city

- 12 streets and public right-of-way will be kept clean and clear of construction materials and debris 24
- 13 hours a day, seven days a week. Dust control shall be implemented in accordance with the
- 14 SBCAPCD rules and regulations.
- 15

16 City of Carpinteria Resolution No. 408 - Environmental Review Guidelines

- 17 The purpose of Resolution No. 408, Environmental Review Guidelines is to provide the City of
- 18 Carpinteria, applicants, and the public with definitions, procedures, and forms to be used in the
- 19 implementation of the California Environmental Quality Act (CEQA; Public Resources Code Section
- 20 21000 and following) and to supplement the State CEQA Guidelines. For assessing impacts
- associated with air quality, the City recommends the use of quantitative thresholds or numerical
- values reflecting degrees of environmental change that are deemed insignificant by federal or state
- standards, comprehensive plan elements, or scientific data. These thresholds are further discussed
- 24 in Section 4.3.3.1.25

26 4.3.3 Impact Analysis

27

28 **4.3.3.1** Methodology and Significance Criteria

29

30 Methodology

- 31 The applicant estimated expected emissions of criteria pollutants from construction and operation
- 32 of the proposed project based on the proposed list of equipment and vehicles; estimated
- 33 construction schedule and phasing; anticipated worker, vendor, and heavy duty vehicle use and
- 34 miles traveled; and projected ground disturbance using the California Emission Estimator Model
- 35 (CalEEMod). SBCAPCD and VCAPCD have not established significance thresholds for construction
- 36 emissions. The South Coast Air Quality Management District is an adjacent air district to the
- 37 proposed project with well-defined construction emission thresholds. Therefore, the CPUC has
- 38 opted to compare the estimated construction emissions to SCAQMD's significance threshold for
- 39 construction.
- 40

41 Significance Criteria

- 42 The significance criteria were defined based on the checklist items in Appendix G of the CEQA
- 43 Guidelines. An impact is considered significant if the project would:
- 44 45
- a) Conflict with or obstruct implementation of the applicable air quality plan;

- b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation;
- c) Result in a cumulatively considerable net increase of any criteria pollutant for which the
 project region is non-attainment under an applicable federal or state ambient air quality
 standard (including releasing emissions which exceed quantitative thresholds for ozone
 precursors);
- 7 d) Expose sensitive receptors to substantial pollutant concentrations; or
 - e) Create objectionable odors affecting a substantial number of people.
- 10 Santa Barbara County Significance Criteria

11 Short-term Construction Emissions

- 12 Although quantitative thresholds of significance are not currently in place for short-term
- 13 emissions, the SBCAPCD requires the disclosure of potential short-term impacts, such as exhaust
- 14 emissions from construction equipment and fugitive dust generation during grading. In the interest
- 15 of public disclosure, the SBCAPCD recommends that construction-related NO_X, ROG, PM₁₀, and
- 16 PM2.5 emissions, from diesel- and gasoline-powered equipment, paving, and other activities, be
- 17 quantified.
- 18

1

2

8

9

- 19 The SBCAPCD requires implementation of standard dust control measures for any discretionary
- 20 project involving earth-moving activities. Because Santa Barbara County violates the state standard
- 21 for PM₁₀, dust mitigation measures are required for all discretionary construction activities
- regardless of the significance of the fugitive dust impacts, based on the policies in the 2010 Clean
- Air Plan (SBCAPCD 2011).
- 24
- 25 The SBCAPCD has not established short-term thresholds for emissions of NO_X and ROG from
- 26 construction equipment. According to the Santa Barbara County Environmental Thresholds and
- 27 Guidance Manual, these thresholds have not been established since construction emissions
- 28 comprise approximately six percent of the 1990 county-wide emission inventory for NO_X, which is
- 29 considered insignificant (County of Santa Barbara 2008). The 2008 Santa Barbara County Planning
- 30 Emission Inventory indicates that emissions from off-road equipment represent approximately five
- 31 percent of the total 2008 county-wide emission inventory for NO_X (SBCAPCD 2013).
- 32

33 Long-term Operational Emissions

- 34 Long-term air quality impacts occur during project operation and include emissions from any
- 35 equipment or process used in a project and motor vehicle emissions associated with a project.
- 36 These emissions must be summed in order to determine the significance of a project's long-term
- 37 impact on air quality.
- 38
- 39 **Ozone Precursors (oxides of nitrogen and reactive organic compounds).** The proposed project
- 40 will not have a significant air quality effect on the environment, if operation of the project will:
- 41

- Emit (from all project sources,³ mobile and stationary), less than the daily trigger for offsets in the APCD New Source Review Rule, for any pollutant; and
- Emit less than 25 pounds per day (lbs/day) of NO_x or reactive organic compounds (ROCs)
 from motor vehicle trips only; and for offsets set in the APCD New Source Review Rule, for
 any pollutant; and
- Not cause or contribute to a violation of any California or National Ambient Air Quality
 Standard (except ozone); and
- Not exceed the APCD health risk public notification thresholds adopted by the SBAPCD
 Board; and
- 10 Be consistent with the adopted federal and state Air Quality Plans.
- 11 12 Carbon Monoxide. A project will have a significant air quality impact if it causes, by adding to the 13 existing background CO levels, a CO "hot spot" where the California 1-hour standard of 20 parts per 14 million of CO is exceeded. This typically occurs at severely congested intersections. Long-term 15 project emissions primarily stem from motor vehicles associated with the land use project and 16 stationary sources, which may require permits from the APCD.
- 17 18

19 20

1

2

Project Screening for Carbon Monoxide Impacts:

- 1) If a project contributes fewer than 800 peak hour trips, then CO modeling is not required.
- 2) Projects that will contribute more than 800 peak hour trips to an existing congested
 intersection at Level of Service D or below, or will cause an intersection to reach Level of
 Service D or below, may be required to model for CO impacts. However, projects that will
 incorporate intersection modifications to ease traffic congestion are not required to
 perform modeling to determine potential CO impacts.
- 26

27 Ventura County Air Quality Significance Criteria

28 VCAPCD recommends the following significance criteria for determining whether an 29 Environmental Impact Report or a Mitigated Negative Declaration should be prepared to address 30 potential adverse air quality impacts from a project, especially potential impacts on nearby 31 populations (e.g., schools, day care centers, residences, and hospitals). Relevant factors under 32 consideration include proximity of the project to populated areas; proximity of the proposed 33 project to other pollutant sources (e.g., industrial facilities emitting odorous or hazardous 34 substances); and projects with potential land use conflicts. 35 36 Ozone (based on emission levels of reactive organic compounds and oxides of nitrogen). The 37 following are the ROG and NO_x thresholds that the Ventura County Air Pollution Control Board has

- 38 determined will individually and cumulatively jeopardize attainment of the federal 1-hour ozone 39 standard, and thus have a significant adverse impact on air quality in Ventura County.
- 40
- 41 (a) Ojai Planning Area
- 42 ROGs: 5 lbs/day
- 43 NO_X: 5 lbs/day

³ Portable equipment registered under the CARB Statewide Portable Equipment Registration Program (PERP) shall not be included a proposed project's emission total. Emissions from these sources are in compliance with the CARB PERP program and are exempt from APCD permits.

(b) Remainder of Ventura County
 ROGs: 25 lbs/day
 NO_X: 25 lbs/day

5 6 Chapter 5 of the Ventura County Air Quality Assessment Guidelines⁴ establish that construction-7 related emissions (including portable engines and portable engine-driven equipment used for 8 construction or repair and maintenance activities) of ROG and NO_X are not counted to the 9 significance thresholds mentioned above, since these emissions are temporary (VCAPCD 2003). 10 However, the guidelines also state that construction-related emissions should be mitigated if estimates of ROG and NO_x from heavy-duty construction equipment anticipated to be used for a 11 12 particular project exceed the VCAPCD significance criteria. Table 4.3-6 summarizes the VCAPCD 13 **Construction Mitigation Measures.**

14

15 **Ozone - Cumulative Impacts Based on Project-Specific AQMP Consistency.** Inconsistent

- 16 projects are usually those that cause the existing population to exceed the population forecasts
- 17 contained in the most recently adopted AQMP. A project with estimated emissions of 2 lbs/day or
- 18 greater of ROG or 2 lbs/day or greater of NO_X is considered to have a significant cumulative adverse
- air quality impact if it is also found to be inconsistent with the AQMP.
- 20

21 Fugitive Dust. A project that may be reasonably expected to generate fugitive dust emissions in 22 such quantities as to cause injury, detriment, nuisance, or annoyance to any considerable number 23 of persons or to the public, or that may endanger the comfort, repose, health, or safety of any such 24 person or the public, or that may cause, or have a natural tendency to cause, injury or damage to business or property will have a significant adverse air quality impact. In addition, the VCAPCD 25 26 considers that a project for which an appropriate air dispersion modeling analysis shows a possible 27 violation of an ambient particulate standard will also have a significant adverse air quality impact. 28 Table 4.3-6 summarizes the VCAPCD mitigation measures to reduce construction fugitive dust 29 emissions presented in the Ventura County Air Quality Assessment Guidelines. 30

31 Toxic Air Contaminants. Impacts from toxic air contaminants may be estimated by conducting a 32 health risk assessment (HRA). The HRA procedure involves the use of an air quality model and a 33 protocol approved by the APCD. The recommended significance thresholds are: 34

(a) Lifetime probability of contracting cancer is greater than 10 in one million (as identified in an HRA).

(b) Ground-level concentrations of non-carcinogenic toxic air pollutants would result in a Hazard Index of greater than 1 (as identified in an HRA).

38 39

- 40 **Odors.** A qualitative assessment indicating that a project may reasonably be expected to generate
- 41 odorous emissions in such quantities as to cause detriment, nuisance, or annoyance to any
- 42 considerable number of persons or to the public, or that may endanger the comfort, repose, health,
- 43 or safety of any such person or the public, or that may cause, or have a natural tendency to cause,

⁴ The Ventura County Air Quality Assessment Guidelines is an advisory document prepared by the District that provides lead agencies, consultants, and project applicants with a framework and uniform methods for preparing air quality impact assessments and the air quality section of environmental documents for projects that require discretionary entitlements. Pursuant to CEQA, the Guidelines recommend specific criteria and threshold levels for determining whether a proposed project may have a significant adverse air quality impact.

- injury or damage to business or property (see California Health and Safety Code, Division 26, §41700) will have a significant adverse air quality impact.
- 1 2 3

Pollutant	VCAPCD Mitigation Measures
ROG and NO _X	1. Minimize equipment idling time.
	2. Maintain equipment engines in good condition and in proper tune as per manufacturers'
	specifications.
	3. Lengthen the construction period during smog season (May through October), to
	minimize the number of vehicles and equipment operating at the same time.
	4. Use alternatively fueled construction equipment, such as compressed natural gas (CNG),
	liquefied natural gas (LNG), or electric, if feasible.
Fugitive Dust	1. The area disturbed by clearing, grading, earth moving, or excavation shall be minimized
	to prevent excessive amounts of dust.
	2. Pre-grading/excavation activities shall include watering the area to be graded or
	excavated before commencement of grading or excavation operations. Application of water
	(preferably reclaimed, if available) should penetrate sufficiently to minimize fugitive dust
	during grading activities.
	3. Fugitive dust produced during grading, excavation, and construction activities shall be
	controlled by the following activities:
	a) All trucks shall be required to cover their loads as required by California Venicle
	b) All graded and every stad metazial even and active nextions of the
	b) All graded and excavated inaterial, exposed soil areas, and active politions of the
	function site, included unpaved on-site roadways, shall be treated to prevent
	ugitive dust. Treatment shall include, but not necessarily be influence to, periodic
	compaction as appropriate Watering shall be done as often as possessary and reclaimed
	water shall be used whenever possible
	4 Graded and/or excavated inactive areas of construction site shall be monitored at least
	weekly for dust stabilization. Soil stabilization methods, such as water and roll-compaction
	and environmentally-safe dust control materials shall be periodically applied to portions of
	the construction site that are inactive for over four days. If no further grading or excavation
	are planned for the area the area should be seeded and watered until grass growth is
	evident or periodically treated with environmentally-safe dust suppressants to prevent
	excessive fugitive dust.
	5. Signs shall be posted on-site limiting traffic to 15 miles per hour or less.
	6. During periods of high winds (i.e., wind speed sufficient to cause fugitive dust to impact
	adjacent properties), all clearing, grading, earthmoving, and excavation operations shall be
	curtailed to the degree necessary to prevent fugitive dust created by on-site activities and
	operations from being a nuisance or hazard, either off-site or on-site. The site
	superintendent/supervisor shall use his/her discretion in conjunction with the APCD in
	determining when winds are excessive.
	7. Adjacent streets and roads shall be swept at least once per day, preferably at the end of
	the day, if visible soil material is carried over to adjacent streets and roads.
	8. Personnel involved in grading operations, including contractors and subcontractors,
	should be advised to wear respiratory protection in accordance with California Division of
	Occupational Safety and Health regulations.

Source: VCAPCD 2003

1 South Coast Air Quality Management District Construction Significance Criteria

2 Considering that the proposed project components would be constructed within both SBCAPCD

3 and VCAPCD limits, and in the absence of quantitative thresholds of significance for short-term

4 construction emissions in these jurisdictions, the CPUC has opted to use the South Coast Air Quality

5 Management District (SCAQMD) Air Quality Significance Thresholds for Construction for the

6 purpose of this EIR analysis. Table 4.3-7 shows the threshold of significance for each criteria 7 pollutant.

8

 Table 4.3-7 SCAQMD Air Quality Thresholds of Significance for Construction

· · · · · ·	0
Pollutant	Construction Threshold
NOx	100 lbs/day
VOC	75 lbs/day
PM ₁₀	150 lbs/day
PM _{2.5}	55 lbs/day
SOx	150 lbs/day
СО	550 lbs/day
Lead	3 lbs/day

Source: SCAQMD 2014

Key:

lbs/day = pounds per day

CO carbon monoxide

NO_X oxides of nitrogen

 $PM_{10} \qquad \text{particulate matter less than or equal to 10 micrometers in diameter}$

 $PM_{2.5} \qquad \text{particulate matter less than or equal to 2.5 micrometers in diameter}$

SO_x sulfur dioxide

VOC volatile organic compound

10 4.3.3.2 Applicant Proposed Measures

11

9

As part of the proposed project design, the applicant would control fugitive dust emissions by
 implementing control measures set forth by VCAPCD Rule 55 and SBCAPCD Rule 345.

14

Additionally, the applicant has committed to the following applicant proposed measures (APMs) aspart of the design of the proposed project:

17

APM AQ-1: The following control measures stated in the VCAPCD Ventura County Air Quality
 Assessment Guidelines to minimize the generation of fugitive dust (PM₁₀ and PM_{2.5}) would be
 implemented during construction of the proposed project, as feasible:

21 22

- The area disturbed by clearing, grading, earth-moving, or excavation operations shall be minimized to prevent excessive amounts of dust.
- Pre-grading/excavation activities shall include watering the area to be graded or excavated
 before commencement of grading or excavation operations. Application of water
 (preferably reclaimed, if available) should penetrate sufficiently to minimize fugitive dust
 during grading activities.
- Fugitive dust produced during grading, excavation, and construction activities shall be controlled by the following activities:
- a) All trucks shall be required to cover their loads as required by California Vehicle Code
 §23114.

- 1 b) All graded and excavated material, exposed soil areas, and active portions of the construction site, including unpaved on-site roadways, shall be treated to prevent 2 3 fugitive dust. Treatment shall include, but not necessarily be limited to, periodic watering, application of environmentally safe soil stabilization materials, and/or roll-4 5 compaction as appropriate. Watering shall be done as often as necessary, and reclaimed 6 water shall be used whenever possible. 7 Graded and/or excavated inactive areas of the construction site shall be monitored by the • 8 applicant at least weekly for dust stabilization. Soil stabilization methods, such as water 9 and roll-compaction, and environmentally safe dust control materials, shall be periodically 10 applied to portions of the construction site that are inactive for more than four days. If no further grading or excavation operations are planned for the area, the area should be 11 12 seeded and watered until grass growth is evident, or periodically treated with 13 environmentally safe dust suppressants, to prevent excessive fugitive dust. 14 Signs shall be posted on site limiting traffic to 15 miles per hour or less. • 15 During periods of high winds (i.e., wind speed sufficient to cause fugitive dust to impact • 16 adjacent properties), all clearing, grading, earth-moving, and excavation operations shall be curtailed to the degree necessary to prevent fugitive dust created by on-site activities and 17 operations from being a nuisance or hazard, either off site or on site. The site 18 superintendent/supervisor shall use his/her discretion in conjunction with the APCD to 19 20 determine when winds are excessive. 21 • Adjacent streets and roads shall be swept at least once per day, preferably at the end of the 22 day, if visible soil material is carried over to adjacent streets and roads. 23 Personnel involved in grading operations, including contractors and subcontractors, should • 24 be advised to wear respiratory protection in accordance with California Division of 25 Occupational Safety and Health regulations. 26 27 **APM AQ-2:** The following control measures stated in the VCAPCD Ventura County Air Quality 28 Assessment Guidelines would be implemented during construction of the Project as feasible: 29 30 Minimize equipment idling time. 31 Maintain equipment engines in good condition and in proper tune as per manufacturers' • 32 specifications. 33 Lengthen the construction period during smog season (May through October), to minimize • 34 the number of vehicles and equipment operating at the same time. 35 • Use alternatively fueled construction equipment, such as compressed natural gas, liquefied natural gas, or electric, if feasible. 36 37 38 4.3.3.3 **Environmental Impacts** 39 40 **Overview of Construction Impacts** 41 Construction activities include surveying, roads and landing work, grading, civil work, electrical work, and restoration work. Construction work associated with the proposed 66-kV 42 43 subtransmission and telecommunication lines would occur at different locations throughout the length of the proposed linear routes (Segments 1, 2, 3A, 3B, and 4). Thus, construction equipment 44
- 45 would be used throughout a relatively large geographical area (approximately 32 miles). In

- 1 addition, short-term construction activities would also occur at the Santa Clara, Casitas, and
- 2 Carpinteria Substations. The applicant estimates that construction of the proposed project would
- 3 take approximately 24 months.
- 4

5 Criteria air pollutants would be emitted from the engine exhaust of diesel- and gasoline-fueled on-

- 6 site construction equipment and on-road vehicles (i.e., delivery trucks and crew vehicles). On-site
- 7 earth-moving activities (e.g., trenching) and vehicle travel on access roads would also generate
- 8 fugitive dust. Heavy-duty diesel- and gasoline-powered equipment and vehicles at the work sites
- 9 would include loaders, graders, backhoes, cranes, and trucks. Worker vehicles would include those 10 used by the construction crews to commute to and from proposed project work and staging areas.
- 11
- 12 Estimates of maximum daily criteria air pollutant emissions that would result from project
- 13 construction are summarized in Table 4.3-8. Estimated maximum daily emissions are intended to
- 14 represent peak values based on the combination of overlapping construction activities that yield
- 15 the highest emissions. The project estimated daily construction emissions are based on
- 16 conservative assumptions about daily equipment and vehicle use and overlapping construction
- 17 activities. Air pollutant emissions in year 2015 would be higher than year 2016, as all roadwork,
- 18 retaining wall installation, and the majority of the 66-kV subtransmission line construction would
- 19 occur during this year. Construction crews would be working in parallel, which results in higher
- maximum daily emissions. Additionally, Table 4.3-9 presents total annual emissions estimated for 20
- 21 years 2015 and 2016. Detailed calculations and assumptions for all construction activities and
- 22 operational sources are presented in Appendix C.
- 23

Table 4.3-8 Estimated Maximum Daily Construction Emissions

PM₂₅

		Daily Emissions (lbs/day) ²				
Year	Project Component ¹	ROG	NO _x	PM ₁₀	PM _{2.5}	
	66-kV Subtransmission Lines	94.25	849.94	275.30	59.18	
2015	Substation work	3.93	44.25	25.13	4.22	
	2015 Daily Emissions	98.18	894.19	300.44	63.40	
	66-kV Subtransmission Lines	3.75	41.56	22.32	3.74	
2016	Substation work	0.44	4.40	4.63	0.63	
	2016 Daily Emissions	4.18	45.96	26.95	4.37	

Source: SCE 2014

Note:

¹ Additional activities proposed for constructing the 66-kV subtransmission lines in 2014 include retaining wall installation (30 units), removal of structures at discrete locations in Segment 4, as well as the installation of Jtowers instead of TSPs at four selected locations along Segment 4.

² Correspond to CalEEMod outputs based on applicant's proposed equipment, phasing and mitigation measures (APM AQ-1 and APM AQ-2). PM_{10}

ŀ	(ey	:
-	_	_	

ROG

kV	kilovolts
NOx	oxides of nitrogen

reactive organic gases

particulate matter less than or equal to 10 micrometers in diameter particulate matter less than or equal to 2.5 micrometers in diameter CalEEMod California Emission Estimator Model

	Annual Emissions (tons/year) ²				
Year	ROG	NO _x	PM ₁₀	PM _{2.5}	
2015	<u>3.29 3.23 </u>	<u>37.52 37.24</u>	<u>16.38 54.82</u>	<u>2.9 6.81</u>	
2016	0.47	5.37	<u>2.08</u> -6.91	<u>0.39 </u>	
Source: SCE 2014					

Table 4.3-9 Summa	ry of Annua	I Construction	Emissions

Note

¹Additional activities proposed for constructing the 66-kV subtransmission lines in 2014 include retaining wall installation (30 units), removal of structures at discrete locations in Segment 4, as well as the installation of J-towers instead of TSPs at four selected locations along Segment 4.

² CalEEMod outputs based on the applicant's proposed equipment, vehicle use and miles traveled, phasing, and implementation of APM AQ-1 and APM AQ-2.

1

2 **Overview of Operational Impacts**

3 Criteria air pollutants would be generated during operation the proposed project. The applicant

4 would inspect the proposed 66-kV subtransmission lines at least once per year by driving and/or

5 flying the line routes. Similarly, the telecommunications components would require routine

6 maintenance once per year. Combustion exhaust emissions would be generated from vehicles used

7 during routine inspection and maintenance activities. Routine substation maintenance would

8 include equipment testing, equipment monitoring, and repair. Operations at Santa Clara, Casitas,

9 and Carpinteria Substations would not require personnel in addition to the applicant's existing

10 staff in the region, and no permanent vehicles would be stationed at each of these locations.

11

12 Criteria air pollutants emissions from vehicles that would be used during operation of the

13 proposed project were estimated based on the expected vehicle miles traveled by routine

14 maintenance personnel and corresponding emission factors derived by CalEEMod. A summary of

15 estimated maximum daily operational emissions of criteria air pollutants is presented in Table

16 4.3-10. Detailed calculations and assumptions for all operational sources are presented in

- 17 Appendix C.
- 18

Table 4.3-10	Summary	of Operational	Emissions
--------------	---------	----------------	-----------

Estimated Annual Emissions (lbs/day) ¹					
ROG NO _X CO SO ₂ PM ₁₀ PM _{2.5}					
0.01	0.02	< 0.01	< 0.01	0.72	0.07

Source: SCE 2012

Notes:

¹ CalEEMod outputs based on applicant assumptions about vehicle use and miles traveled during routine operation and maintenances.

Key:

CalEEMod California Emission Estimator Model

CO	carbon monoxide
lbs	pounds

NO_x oxides of nitrogen

PM₁₀ particulate matter less than or equal to 10 micrometers in diameter

PM_{2.5} particulate matter less than or equal to 2.5 micrometers in diameter

ROG reactive organic gases

SO₂ sulfur dioxide

1 Impact Assessment

Impact AQ-1: Conflict with or obstruct implementation of the applicable air quality plan. LESS THAN SIGNIFICANT

4

5 The proposed project's air pollutant emissions would primarily occur during the construction

6 phase, with an overall duration of 24 months. Major sources of emission during construction would

7 be off-road diesel-fired construction equipment and vehicles, which would emit air pollutants in a

8 transient pattern along each of the proposed 66-kV subtransmission line segments. The proposed

9 project's construction and operation would not involve the use of stationary sources.

10

11 Consistency with the applicable air quality plan generally relies on a comparison of the project's

12 stationary and mobile emissions with the regional air quality plan inventories, as well as a

- 13 comparison of project-based and countywide population growth projections. In Ventura County,
- 14 inconsistent projects are those that cause the existing population to exceed the population
- 15 forecasts contained in the most recently adopted air quality plan. The proposed project would not
- 16 induce population growth; therefore, inconsistency or conflict with the implementation of the
- 17 Ventura County AQMP is not applicable. Moreover, SBCAPCD and VCAPCD have prepared air
- 18 quality plans that establish air quality emissions inventories and controls for ozone precursors
- 19 (NO_X and ROG) sources in the proposed project area. As shown in Table 4.3-11, the proposed

20 project's construction emissions in year 2015 would represent approximately two percent of the

21 regional emissions inventories for NO_x and less than 0.2 percent for ROG. In 2016, construction

- 22 emissions would represent less than 0.1 percent for ROG and NO_x of each county's emissions
- 23 inventory. Operational emissions would be an even smaller fraction, considering that the estimated
- 24 vehicle use would generate less than 1 percent of construction emissions. In addition, the applicant
- would comply with all applicable APCD regulations that result from implementation of the air
- 26 quality plans. Therefore, the proposed project would not conflict with or obstruct implementation
- of the applicable air quality plans and would result in a less than significant impact under thiscriterion.
- 28 29

Table 4.3-11Comparison of Project Maximum Emissions with Countywide Inventories in
Air Quality Plans

Project Construction Emissions vs.		
Plan Inventory Data	ROG	NO _x
2015 Maximum Daily Emissions (Summer)	0.05 tons/day	0.45 tons/day
2016 Maximum Daily Emissions (Summer)	0.002 tons/day	0.02 tons/day
Ventura County 2012 Planning Emissions Inventory	48.65 tons/day	39.75 tons/day
Percentage of Ventura County 2012 Planning Emissions	0.10 %	1.13 %
Inventory represented by the project's 2015 Maximum		
Daily Emissions (Summer)		
Percentage of Ventura County 2012 Planning Emissions	< 0.01%	0.05 %
Inventory represented by the project's 2016 Maximum		
Daily Emissions (Summer)		
Santa Barbara County 2020 Planning Emissions	30.97 tons/day	23.46 tons/day
Inventory		
Percentage of Santa Barbara County 2020 Planning	0.16 %	1.9 %
Emissions Inventory represented by the project's 2015		
Maximum Daily Emissions (Summer)		
Percentage of Santa Barbara County 2020 Planning	0.01 %	0.08 %
Emissions Inventory represented by the project's 2016		
Maximum Daily Emissions (Summer)		

	All Quality Fians				
	Project Construction Emissions vs.				
Plan Inventory Data		ROG	NO _x		
Source	e: SCE 2014; SBCAPCD 2011a; VCAPCD 2008				
Key:					
NUX ROC	oxides of nitrogen				
Rou	reactive organic gases				
Imnac	t AO-2: Violate any air quality standard or con	tribute substantially	to an existing or		
projec	ted air quality violation.	teribute substantiany	to an existing of		
SIGNIE	FICANT				
orarii					
As sho	wn in Table 4.3-4, the South Central Coast Air Ba	asin (where the propos	sed project would be		
constru	ucted) reported more than 20 days exceeding th	e national and state oz	cone 8-hour standard.		
as well	l as the state PM_{10} 24-hour standard in the year 2	2012. The VCAPCD and	l SBCAPCD have		
adopte	ed air quality management plans and regulations	to control ozone and l	PM ₁₀ emissions within		
their ju	urisdictions.				
,					
Criteri	a air pollutants would be emitted from the engin	ne exhaust of diesel- an	nd gasoline-fueled on-		
site co	nstruction equipment and on-road vehicles (i.e.,	delivery trucks and cr	ew vehicles). On-site		
earth-r	moving activities (e.g., trenching) and vehicle tra	ivel on access roads wo	ould also generate		
fugitiv	e dust. Heavy-duty diesel- and gasoline-powered	d equipment and vehic	les at the work sites		
would	include loaders, graders, backhoes, cranes, and	trucks. Worker vehicle	s would include those		
used b	y the construction crews to commute to and from	m proposed project wo	ork and staging areas.		
As disc	cussed in Section 4.3.3.1, SBCAPCD and VCAPCD	have not established q	uantitative thresholds		
of sign	ificance for short-term construction emissions v	vithin their jurisdiction	ns. Therefore, the		
CPUC ł	has opted to use SCAQMD Air Quality Significanc	e Thresholds for Const	truction for the		
purpos	se of this EIR analysis. Estimates of maximum da	ily criteria air pollutar	nt emissions that		
would result from project construction and the SCAQMD construction thresholds are summarized					
	Source Key: NOx ROG Impace project SIGNIH As sho constr as well adopte their ju Criteri site co earth fugitiv would used b As disc of sign CPUC I purpos would	Project Construction Emissions vs. Plan Inventory Data Source: SCE 2014; SBCAPCD 2011a; VCAPCD 2008 Key: NOx oxides of nitrogen ROG reactive organic gases Impact AQ-2: Violate any air quality standard or comprojected air quality violation. SIGNIFICANT As shown in Table 4.3-4, the South Central Coast Air Ba constructed) reported more than 20 days exceeding th as well as the state PM ₁₀ 24-hour standard in the year 2 adopted air quality management plans and regulations their jurisdictions. Criteria air pollutants would be emitted from the engir site construction equipment and on-road vehicles (i.e., earth-moving activities (e.g., trenching) and vehicle trafugitive dust. Heavy-duty diesel- and gasoline-powered would include loaders, graders, backhoes, cranes, and tused by the construction crews to commute to and from As discussed in Section 4.3.3.1, SBCAPCD and VCAPCD of significance for short-term construction emissions v CPUC has opted to use SCAQMD Air Quality Significance purpose of this EIR analysis. Estimates of maximum da would result from project construction and the SCAQM	Plan Inventory DataROGSource: SCE 2014; SBCAPCD 2011a; VCAPCD 2008 Key: NOx oxides of nitrogen ROG reactive organic gasesROGImpact AQ-2: Violate any air quality standard or contribute substantially projected air quality violation. SIGNIFICANTSIGNIFICANTAs shown in Table 4.3-4, the South Central Coast Air Basin (where the propose constructed) reported more than 20 days exceeding the national and state oz as well as the state PM10 24-hour standard in the year 2012. The VCAPCD and adopted air quality management plans and regulations to control ozone and 1 their jurisdictions.Criteria air pollutants would be emitted from the engine exhaust of diesel- ar site construction equipment and on-road vehicles (i.e., delivery trucks and cr earth-moving activities (e.g., trenching) and vehicle travel on access roads we fugitive dust. Heavy-duty diesel- and gasoline-powered equipment and vehic would include loaders, graders, backhoes, cranes, and trucks. Worker vehicle used by the construction crews to commute to and from proposed project workAs discussed in Section 4.3.3.1, SBCAPCD and VCAPCD have not established of of significance for short-term construction emissions within their jurisdiction CPUC has opted to use SCAQMD Air Quality Significance Thresholds for Const purpose of this EIR analysis. Estimates of maximum daily criteria air pollutar would result from project construction and the SCAQMD construction thresh		

Table 4.3-11Comparison of Project Maximum Emissions with Countywide Inventories in
Air Quality Plans

24 in Table 4.3-12.

Table 4.3-12Summary of Estimated Maximum Daily Construction Emissions and
SCAQMD Construction Thresholds1

	Daily Emissions (lbs/day) ²			
	ROG	NOx	PM ₁₀	PM _{2.5}
2015 Daily Emissions	98.18	894.19	300.44	63.40
SCAQMD Threshold	75	100	150	55
Threshold Exceeded in 2015?	Yes	Yes	Yes	Yes
2016 Daily Emissions	4.18	45.96	26.95	4.37
SCAQMD Threshold	75	100	150	55
Threshold Exceeded in 2015	No	No	No	No
<u>2016</u> ?				

		Daily Emissions (lbs/day) ²			
	ROG	NO _x	PM ₁₀	PM _{2.5}	
SCE 2014					
SBCAPCB and VCAPCD have construction emissions with Significance Thresholds for (not established o in their jurisdicti Construction for	quantitative thresholds ions. Therefore, the CPU the purpose of this EIR	of significance for sh C has selected to use analysis.	nort-term e SCAQMD Air Quality	
SO _x and CO emissions from t applicable threshold, therefo	he proposed pro ore are not includ	oject are below 0.001 lbs led in this table.	s/day and would not	t exceed any	
	PM_{10}	particulate matter l	ess than or equal t	to 10 micrometers in	
oxides of nitrogen		diameter			
reactive organic gases	PM _{2.5}	particulate matter l diameter	ess than or equal t	o 2.5 micrometers in	
	SCE 2014 SBCAPCB and VCAPCD have construction emissions with Significance Thresholds for (SO _x and CO emissions from t applicable threshold, therefo oxides of nitrogen reactive organic gases	ROG SCE 2014 SBCAPCB and VCAPCD have not established of construction emissions within their jurisdiction for Significance Thresholds for Construction for SOx and CO emissions from the proposed protapplicable threshold, therefore are not include PM10 oxides of nitrogen reactive organic gases PM2.5	Daily Emiss ROG NOx SEC 2014 SBCAPCB and VCAPCD have not established quantitative thresholds construction emissions within their jurisdictions. Therefore, the CPU Significance Thresholds for Construction for the purpose of this EIR SOx and CO emissions from the proposed project are below 0.001 lbs applicable threshold, therefore are not included in this table. PM10 particulate matter I diameter oxides of nitrogen PM2.5 particulate matter I diameter	Daily Emissions (lbs/day) ² ROG NO _x PM ₁₀ SEC 2014 SBCAPCB and VCAPCD have not established quantitative thresholds of significance for sl construction emissions within their jurisdictions. Therefore, the CPUC has selected to use Significance Thresholds for Construction for the purpose of this EIR analysis. SOx and CO emissions from the proposed project are below 0.001 lbs/day and would not applicable threshold, therefore are not included in this table. PM ₁₀ particulate matter less than or equal t diameter reactive organic gases PM _{2.5} particulate matter less than or equal t diameter	

Summary of Estimated Maximum Daily Construction Emissions and Table 4.3-12 SCAQMD Construction Thresholds¹

1

2 The result of the pollutant criteria analysis indicates that ROG, NO_x, PM₁₀ and PM_{2.5} emissions

3 during the first year of construction (2015) would exceed the applicable thresholds and would be

4 significant. The maximum daily construction emissions assume the incorporation of APM AQ-1 and

5 APM AQ-2. There are no additional mitigation measures that would reduce PM_{10} and $PM_{2.5}$

6 emissions. Therefore, PM₁₀ and PM_{2.5} emissions from the first year of construction would be significant.

7

8

9 The ROG and NO_x emissions during the first year of construction can be reduced through the use of

10 low emission engines for off-road diesel vehicles and equipment. The EPA and California Air

Resource Board <u>rate</u> engines based on their ability to meet emission regulations using five tiers 11 12 (i.e., Tier 0, Tier 1, Tier 2, Tier 3, and Tier 4). Tier 0 represents engines built prior to the regulation

that can meet the basic emission regulations and Tier 4 -represents engines that can meet the

13 current highest and strictest emission regulations. MM AQ-1 would require the applicant to use 14

Tier 3 and Tier 4 off-road diesel vehicles and equipment during the first calendar year of 15

construction to the greatest extent feasible to reduce ROG and NO_x emissions. Available off-road 16

17 engine emission rates data from SCAQMD indicate that replacement of Tier 1 engines to Tier 3

18 would reduce NO_X emissions up to 59 percent and ROG emissions up to 85 percent, depending on

19 the engine size. Replacement of Tier 1 for Tier 4 engines would reduce NO_X emissions up to 96

20 percent and up to 86 percent for ROG. Table 4.3-13 shows the estimated emissions with the

21 implementation of MM AQ-1 to the maximum extent based on the assumption that the unmitigated 22

equipment fleet used for the Project would be 100 percent (i.e., 100 percent of the vehicle and 23 equipment used for the project are rated Tier 4).

24

Estimated Construction Emission with Implementation of MM AQ-1¹ Table 4.3-13

	ROG	NO _X
2015 Daily Emissions with	13.75	35.77
MM AQ-1 Implemented ¹		
SCAQMD Threshold	75	100

Note:

¹Implementation of MM AQ-1 to the greatest extent feasible (i.e., 100 percent of the vehicle and equipment used for the project are rated Tier 4). Note that because the actual mix of equipment used by SCE is not likely to be all Tier 1 equipment, actual emissions may be somewhat greater than those set forth in this table even with mitigation. For this reason and others, as discussed below, impacts are deemed significant and unavoidable even with the implementation of MM AQ-1.

1 While implementation of MM AO-1 to the maximum extent would reduce ROG and NO_x emissions 2 to less than significant levels, the availability of the variety of vehicles and equipment required for 3 construction equipped with Tier 3 and Tier 4 engines is unknown. Furthermore, the unmitigated 4 equipment fleet would be likely to include, and was calculated in Appendix C as, a mixture of Tier 5 ratings as opposed to 100 percent Tier 1. As a result, it cannot be assumed that implementation of 6 MM AQ-1 would reduce ROG and NO_x emissions to below SCAQMD construction thresholds. 7 Therefore, ROG and NO_x emissions from the first year of construction would be significant with the 8 implementation of mitigation. 9 10 As shown in Table 4.3-12, construction emissions from the second year of construction would not 11 exceed any of SCAQMD construction thresholds and would be less than significant. 12 13 Operation and maintenance activities associated with the project would be similar to those 14 associated with the existing 66-kV subtransmission and substations. Emissions resulting from 15 operation and maintenance activities are shown in Table 4.3-9 and are well below VCAPCD and 16 SBCAPCD operational thresholds of significance. Therefore operation of the proposed project 17 would have a less than significant impact on air quality standards. 18 19 Impact AO-3: Result in a cumulatively considerable net increase of any criteria pollutant for 20 which the project region is in non-attainment under an applicable federal or state ambient air 21 quality standard. 22 SIGNIFICANT 23 24 The proposed project is located in Ventura County, which is designated as nonattainment for NO_X, 25 ROG, PM_{2.5}, and PM₁₀ with respect to NAAQS and CAAQS, and in Santa Barbara County, which is 26 designated as nonattainment for NO_{X} , ROG, and PM_{10} with respect to CAAQS only (Table 4.3-3). 27 28 The SBCAPCD defines that "cumulative air quality impacts are the effect of long-term emissions of 29 the proposed project on the projected regional air quality or localized air pollution problems in the 30 County" (SBAPCD 2008). Due to Santa Barbara County's non-attainment status for NO_X, ROG and 31 PM_{10} , the project's impacts would be cumulatively considerable. Implementation of MM AQ-1 32 would require the applicant to use low emission engines to the greatest extent feasible. However, 33 MM AQ-1 would not reduce the project's NO_x, ROG, and PM₁₀ emissions to less than significant. 34 Therefore, the proposed project would result in a cumulatively considerable net increase in NO_{X_1} 35 ROG, and PM₁₀ emissions within SBCAPCD that is significant. 36 37 Ventura County Air Quality Assessment Guidelines identifies projects with emissions of two pounds per 38 day or greater of ROG or NO_x and that are inconsistent with the AQMP will have a significant 39 cumulative adverse air quality impact. As discussed under Impact AQ-1, the proposed project is 40 consistent with the VCAOMP. Therefore the proposed project would not contribute to a cumulative 41 impact in Ventura County. 42 43 Operation and maintenance activities associated with the project would be similar to those 44 associated with the existing 66-kV subtransmission and substations. Emissions resulting from 45 operation and maintenance activities are shown in Table 4.3-9 and are well below VCAPCD and 46 SBCAPCD operational thresholds of significance. Therefore operation of the proposed project 47 would have a less than significant impact on cumulative emission of criteria pollutant. 48 49 Impact AQ-4: Expose sensitive receptors to substantial pollutant concentrations.

50 LESS THAN SIGNIFICANT

1

- 2 Sensitive receptors include schools, hospitals, residences, and other sensitive land uses. Land use
- 3 conflicts can arise when sensitive receptors are located next to major sources of air pollutant
- 4 emissions. As discussed in Section 4.11, "Noise and Vibration," the predominant types of receptors
- 5 located within 1 mile of the proposed project components include single-family residences,
- 6 schools, places of worship, and recreational users of the Los Padres National Forest (Highway 33
- 7 Corridor). Sensitive receptors located in the proximity of work areas could be exposed to criteria
- 8 air pollutants and *diesel particulate matter*—a toxic air contaminant produced by diesel-fueled
- 9 vehicles and equipment that is also classified as a subset of PM_{10} and $PM_{2.5}$ emissions.
- 10
- 11 The applicant is required to comply with applicable VCAPCD and SBCAPCD regulations and has 12 incorporated APM AQ-1 and APM AQ-2, which incorporate VCAPCD and SBCAPCD standards to
- 13 reduce project-related construction emissions to the greatest extent practicable.
- 14 In addition, implementation of MM AQ-1 would further reduce emissions. Construction activities
- 15 would be transient, occurring for limited durations at locations along the length of the proposed
- 16 66-kV subtransmission segments and overhead telecommunication routes. Therefore, it is not
- 17 anticipated that the proposed project would result in the exposure of sensitive receptors to
- 18 substantial concentrations of toxic air contaminants during construction, and construction impacts
- 19 under this criterion would be less than significant.
- 20

21 During operations, inspection and maintenance activities would require the use of a few vehicles

- for short time periods, similar to existing activities. Further, it is anticipated that some vehicles
 would not be fueled by diesel, and vehicles would be dispersed throughout a wide geographic area.
- Therefore, impacts during operations would be less than significant.

26 Impact AQ-5: Create objectionable odors affecting a substantial number of people.

- 27 LESS THAN SIGNIFICANT
- 28
- 29 Exhaust from construction vehicles and equipment may temporarily create odors due to the
- 30 combustion of fuel that may be noticeable to people who work, reside, or participate in recreation
- 31 activities near proposed construction sites. Odors generated by diesel exhaust would be reduced by
- 32 the use of ultra-low-sulfur diesel and gasoline, in compliance with 13 California Code of
- 33 Regulations 2262 and 2281. Paving activities during road work would also generate odors from hot
- 34 asphalt sources. However, heavy-duty equipment and vehicles—major potential source of
- 35 objectionable odors—would not be operated in the proximity of a substantial number of people, as
- 36 the majority of residences, schools, and other sensitive land uses are located along the proposed
- 37 66-kV subtransmission lines and not along the more remote Segment 4 access roads.
- 38 Two residences and a school would be located within 300 feet of the proposed work at the
- 39 Carpinteria Substation, while most of the receptors located in the vicinity of the proposed project
- 40 components are over 500 feet from the proposed work areas. The potential exposure of closest
- 41 sensitive receptors to diesel combustion odors would be temporary during construction activities
- 42 at the Carpinteria Substation. No other substances used or activities involved with the project are
- 43 expected to produce objectionable odors. Therefore, impacts under this criterion would be less
- 44 than significant during construction.
- 45
- 46 During operations, equipment used at the proposed project's substations would not create
- 47 objectionable odors. Inspection and maintenance of the proposed substations and along the
- 48 proposed 66-kV subtransmission and telecommunications line routes would require only a few
- 49 vehicles for relatively short time periods and would be similar to existing operations. It is not
- 50 anticipated that objectionable odors would be generated in amounts that would affect a substantial

1 number of people. Therefore, it is not anticipated that the proposed project would create 2 objectionable odors affecting a substantial number of people during operations, and impacts under

3 this criterion would be less than significant. 4

5 4.3.4 Mitigation Measures

6

MM AQ-1: Tier 3 and 4 Off-Road Emissions Standards. Off-road diesel-powered construction

7 8 equipment greater than 75 horsepower used during 66-kV subtransmission line or access road

9 construction will meet Tier 3 and Tier 4 off-road emissions standards to the greatest extent

10 feasible during any calendar year in which ROG and NO_x construction emissions are anticipated to

11 exceed SCAQMD Air Quality Significance Thresholds for Construction. During these years, the

12 applicant will provide the CPUC with annual reports detailing the percentage of off-road diesel-

13 powered construction equipment greater than 75 horsepower used for the proposed project that

14 meet the Tier 3 or Tier 4 classification. The report will also include justification—supported by

15 letters from local rental equipment retailers, documentation from contractors, or other evidence—

16 for any deficiencies in Tier 3 and Tier 4 engine usage where construction activities continue to

17 exceed SCAQMD thresholds.