

Tehachapi Renewable Transmission Project

Erosion Control Plan

Prepared for
Southern California Edison

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Prepared by



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ANF

Non ANF

Applies to Segments:

4	5	6	7	8	9 Whirlwind	9 Antelope	9 Vincent	10	11
<input type="checkbox"/>									

Mitigation Measure Covered:

MM H-1a Implement an Erosion Control Plan and Demonstrate Compliance With Water Quality Permits

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Acronyms and Abbreviations

Global

ANF	Angeles National Forest
APM	Applicant Proposed Measure
CEQA	California Environmental Quality Act
CPCN	Certificate of Public Convenience and Necessity
CPUC	California Public Utilities Commission
FEIR/DEIS	Final Environmental Impact Report/Draft Environmental Impact Statement
MM	Mitigation Measure
MW	Megawatt
NEPA	National Environmental Policy Act
NFS	National Forest Service
Project	Tehachapi Renewable Transmission Project
ROW	Right-of-Way
SCE	Southern California Edison
TRTP	Tehachapi Renewable Transmission Project
TWRA	Tehachapi Wind Resource Area
USACE	United States Army Corps of Engineers
USFS	United States Forest Service

Plan Specific

BMP	Best Management Practice
Plan	Erosion Control Plan
SWPPP	Stormwater Pollution Prevention Plan

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1.0 Introduction

This Erosion Control Plan (Plan) for Southern California Edison's (SCE) Tehachapi Renewable Transmission Project (Project or TRTP) presents the activities to be conducted to support compliance with the mitigation measure, listed in Table 1, related to potential water quality impacts.

1.1 Project Overview

SCE's TRTP includes a series of new and upgraded high-voltage electric transmission lines and substations to deliver electricity from new wind farms in eastern Kern County, California, to the Los Angeles Basin. The Project will provide the electrical facilities necessary to integrate levels of new wind generation in excess of 700 megawatts (MW) and up to approximately 4,500 MW in the Tehachapi Wind Resource Area (TWRA).

The Project involves construction, operation, and maintenance of new and upgraded transmission infrastructure along approximately 173 miles of new and existing rights-of-way (ROWs) from the TWRA in southern Kern County, south through Los Angeles County and the Angeles National Forest (ANF), and east to the existing Mira Loma Substation in Ontario, San Bernardino County, California. The Project traverses approximately 42 miles of National Forest Service land in the ANF, as well as about 7.9 miles of lands that are owned by the United States Army Corps of Engineers (USACE) at Santa Fe Dam and Whittier Narrows in Los Angeles County.

The major components of the Project are delineated into eight segments that are numbered Segments 4, 5, 6, 7, 8, 9, 10, and 11. (Segments 1, 2, and 3 were permitted and constructed under separate environmental review.) Consequently, the description of major components for the Project begins with Segment 4. Segments 4 through 8, as well as Segments 10 and 11 facilities, are transmission lines while Segment 9 facilities are substations.

1.2 Lead, Cooperating, and Consulting Agencies

Lead agencies have discretionary approval over the Project and are responsible for reviewing aspects of the measure documented in this Plan. The California Public Utilities Commission (CPUC) is the state lead agency responsible for compliance with the California Environmental Quality Act (CEQA) for Project areas on non-federal lands. The United States Forest Service (USFS) is the federal lead agency responsible for compliance with National Environmental Policy Act (NEPA) for the Project areas on federal lands. Identified materials or documentation will be provided to the CPUC and the USFS per the requirements of mitigation measures listed in Table 1.

Because the Project also crosses lands owned by the USACE, the USACE elected to participate as a Cooperating Agency for the environmental review of the Project.

Consulting agencies are public agencies, other than the lead agencies, that may provide guidance or information needed to satisfy the requirements of the measure contained in this Plan.

1.3 Mitigation Measure

The mitigation measure addressed in this Plan is provided in Table 1. This Plan, and the mitigation measure included herein, is listed as a requirement in Table A.1-2 in Attachment 2 of the Final Decision/Certificate of Public Convenience and Necessity (CPCN) (CPUC, 2009).

TABLE 1
 Mitigation Measure Addressed
Erosion Control Plan

Measure	Description
MM H-1a	<p><u>Implement an Erosion Control Plan and Demonstrate Compliance With Water Quality Permits.</u> SCE shall develop and submit to the CPUC and FS for approval 30 days prior to construction an Erosion Control Plan, and implement Best Management Practices (BMPs), as described below. (Note: The Erosion Control Plan may be part of the same document as the Stormwater Pollution Prevention Plan.) Within the Erosion Control Plan, the applicant shall identify the location of all soil-disturbing activities, including but not limited to new and/or improved access and spur roads, the location of all streams and drainage structures that would be directly affected by soil-disturbing activities (such as stream crossings by access roads), and the location and type of all BMPs that would be installed to protect aquatic resources. The Erosion Control Plan shall include a proposed schedule for the implementation and maintenance of erosion control measures and a description of the erosion control practices, including appropriate design details. As part of the Erosion Control Plan, SCE shall maintain a logbook of all precipitation events within the Project area that produce more than one inch of precipitation within a 24-hour period. The logbook shall contain the date of the precipitation event, the approximate duration of the event, and the amount of precipitation (measured as the largest amount recorded by a rain gage or weather station within one mile of the Project). Additionally, the logbook shall include a narrative evaluation (and/or a numerical evaluation, if required by the FS or other jurisdictional agency) of the erosion-prevention effectiveness of the existing BMPs, as well as a description of any post-storm modifications to those BMPs. The logbook shall be submitted to the CPUC and FS for review within 30 days following the first storm event (after construction has begun) that produces greater than one inch of precipitation within a 24-hour period. SCE shall re-submit the logbook annually after the first storm of the rainy season that produces more than one inch of precipitation within a 24-hour period. The logbook shall be retired 5 years after completion of construction. In addition to the Erosion Control Plan, the applicant shall submit to the CPUC and the FS evidence of possession of all required permits before engaging in soil-disturbing construction/demolition activities, before entering flowing or ponded water, or before constructing a crossing at flowing or ponded water. Such permits may include, but are not limited to, a Streambed Alteration Agreement from the California Department of Fish and Game, a Clean Water Act (CWA) Section 404 permit from the USACE, a CWA Section 402 NPDES General Permit for Storm Water Discharges Associated with Construction Activities (General Permit) from the applicable Regional Water Quality Control Board(s) (RWQCBs), and/or a CWA Section 401 certification from the applicable RWQCBs. In addition, if construction-related excavation activities on National Forest System (NFS) lands encounter perched groundwater, triggering the need for dewatering activities to occur in compliance with Applicant-Proposed Measure HYD-6 (Drilling and Construction Site Dewatering Management), SCE shall notify the Forest Service at the onset of dewatering and, upon the completion of dewatering activities at the affected site(s), SCE shall submit to the Forest Service written description of all executed dewatering activities, including steps taken to return encountered groundwater to the subsurface.</p>

Note:
 Measure is from the Final Decision/CPCN.

Source: CPUC, 2009

1.4 Applicable Activities and Project Area

This Plan applies to construction areas with soil-disturbing activities. Activities that may fall under this category include the construction of transmission line support structures, communications cables, substation upgrades, access roads, materials yards, and temporary transmission bypass line support structures. TRTP construction activities will be conducted under site-specific Stormwater Pollution Prevention Plans (SWPPPs). Site-specific SWPPPs will include erosion control and sedimentation measures, including Best Management Practices (BMPs), for soil-disturbing activities.

Elements of the Erosion Control Plan, as described in Mitigation Measure H-1a, will be incorporated into site-specific SWPPPs.

The applicable mitigation measure and segment(s) are listed in Table 2.

TABLE 2
 Applicable Project Area
 Erosion Control Plan

Measure	Applicable Segment(s)
MM H-1a	4, 5, 6, 7, 8, 9, 10, and 11

1.5 Timing

The mitigation measure described in this Plan is applicable for the following periods of the Project, as shown in Table 3.

TABLE 3
 Timing of Mitigation Measure Applicability
 Erosion Control Plan

Measure	Period		
	Pre-Construction (Mobilization)	During-Construction (Active)	Post-Construction (De-Mobilization) ^a
MM H-1a	☒	☒	☒

^aOperations and Maintenance will be conducted in accordance with all applicable rules and regulations.

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2.0 Methods

TRTP construction activities will be conducted under site-specific SWPPPs. Site-specific SWPPPs will include erosion control and sedimentation measures, including BMPs, for soil-disturbing activities.

Elements of the Erosion Control Plan, as described in Mitigation Measure H-1a, will be incorporated into site-specific SWPPPs. Specifically, site-specific SWPPPs will include the following elements:

- Location of all soil-disturbing activities
- Location of all streams and drainage structures that would be directly affected by soil disturbing activities (such as stream crossings by access roads)
- Location and type of all BMPs that would be installed to protect aquatic resources
- Proposed schedule for the implementation and maintenance of erosion control measures
- Description of erosion control practices, including appropriate design details
- Plan for maintenance of a logbook of all precipitation events in the project area that produce more than 1 inch of precipitation within a 24-hour period

Site-specific SWPPPs will be submitted to the CPUC and USFS prior to construction.

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3.0 Conclusion

This Plan has been prepared to address the requirements of Mitigation Measure H-1a. SCE requests review and approval of this Plan by the CPUC for non-federal lands and by the USFS for federal lands. Upon receipt of the Final Supplemental Environmental Impact Statement, Record of Decision, and Special Use Permit from the USFS and/or the USACE, this Plan may be amended to reflect the information in the clearance and approval documents.

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4.0 References

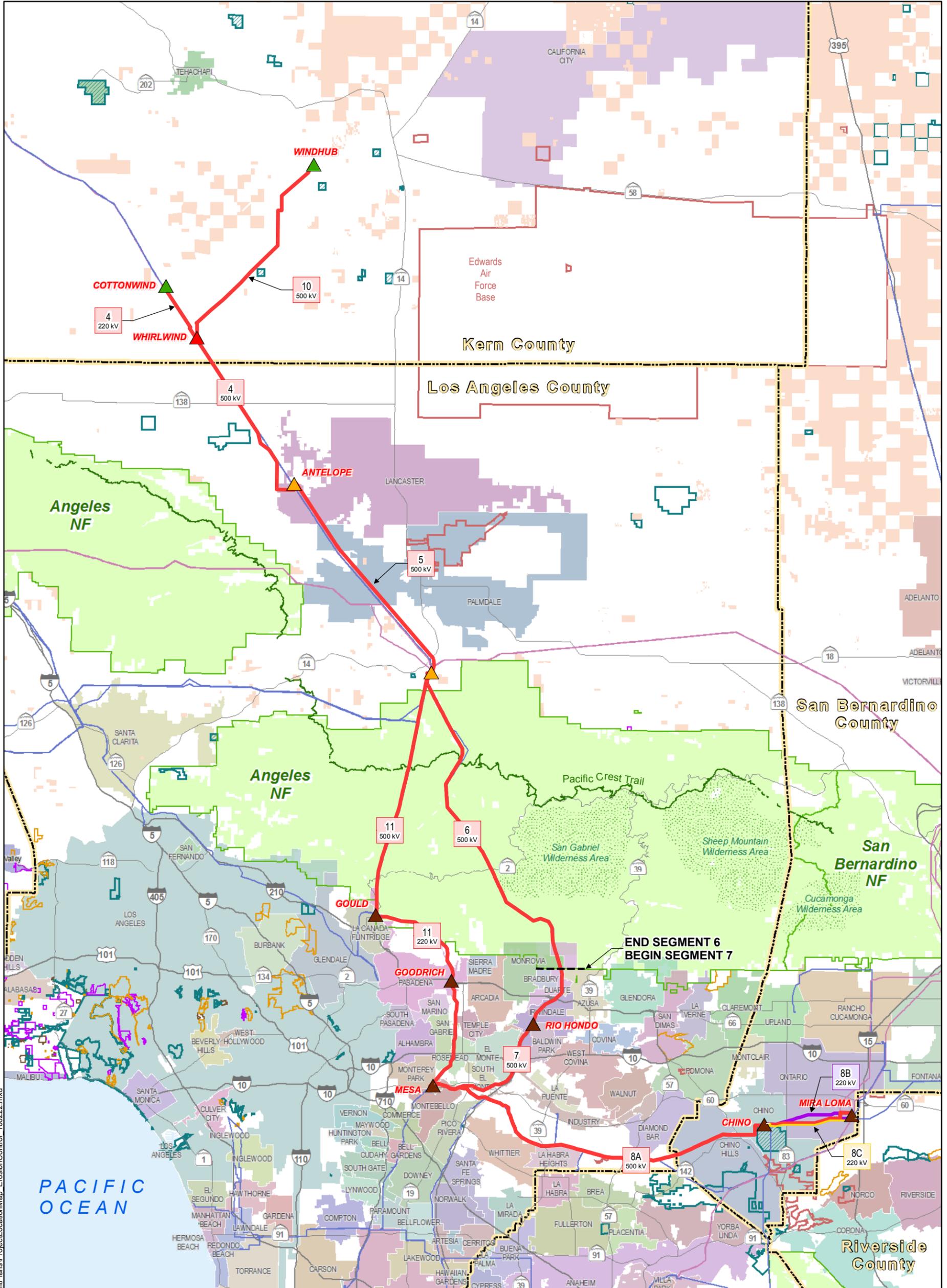
California Public Utilities Commission Energy Division (CPUC). 2009. *[Final] Decision Granting a Certificate of Public Convenience and Necessity for the Tehachapi Renewable Transmission Project (Segments 4-11)*. Decision 09-12-044. December 17. Issued: December 24, 2009. http://docs.cpuc.ca.gov/word_pdf/final_decision/111744.pdf. Accessed on December 24, 2009.

California Public Utilities Commission Energy Division and USDA Forest Service, Angeles National Forest (CPUC/USFS, ANF). 2009. *Environmental Impact Report/Environmental Impact Statement for the Tehachapi Renewal Transmission Project*. Final. October. ftp://ftp.cpuc.ca.gov/gopher-data/enviro/tehachapi_renewables/index.htm. Accessed on October 30, 2009.

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Figures

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1 inch = 36,960 feet
0 4 8
Miles



Source: Southern California Edison / California Resources Agency Legacy Project 2005 / Remote Sensing Lab, Region 5, USDA Forest Service.

Tehachapi Renewable Transmission Project

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2010

Legend

- ▲ New Substation (Part of TRTP)
- ▲ Existing Substation - Expansion/Upgrade (Part of TRTP)
- ▲ Permitted Substation (Not Yet Constructed - Not Part of TRTP)
- ▲ Existing Substation (No Change Under TRTP)
- TRTP Proposed Route**
- Segments 4 - 11
- Segment 8B
- Segment 8C

Highways

- Interstate/US Route
- State Route

Existing Transmission Lines

- 220 kV
- 500 kV

Public & Conservation Lands

- BLM
- Local
- NPS
- State
- NGO/Other
- Pacific Crest Trail
- County Boundary
- Incorporated Cities
- Unincorporated County
- USDA FS
- Wilderness Area
- State Lands Commission

Note: Data shown are from the 2007 Tehachapi Renewable Transmission Project PEA

Figure 1
PROJECT LOCATION MAP
EROSION CONTROL PLAN

