California Public Utilities Commission
Public Meeting for the
Southern California Edison
Mesa 500-kV Substation Project
Draft EIR

A. 15-03-003 for a Permit to Construct
May 18, 2016
Meeting Agenda

- Introduction
- Purpose of the Meeting
  - Silvia Yánez
  - Ecology & Environment, Inc.

- CEQA
- CPUC Process
  - Lisa Orsaba
  - CPUC

- Project Description
- Environmental Impacts
- Alternatives
- How to Comment on Draft EIR
- More Information
  - Kristi Black
  - Ecology & Environment, Inc.

- Informal Discussion Session
  - All
Introductions

- **California Public Utilities Commission (CPUC)**
  - CPUC is Lead Agency under the California Environmental Quality Act (CEQA). The CPUC must conduct an environmental analysis in accordance with CEQA in order to issue a Permit to Construct for SCE’s proposed project.

- **Ecology and Environment, Inc. (E & E)**
  - E & E is the CPUC’s environmental consultant, hired to perform the environmental analysis and prepare CEQA document.

- **Southern California Edison Company (SCE)**
  - SCE is the applicant of the proposed project.
Purpose of this Meeting

• Describe the Draft EIR content and analysis
• Explain public participation opportunities during the CPUC decision-making process.
• Accept written comments from the public on the Draft EIR
CEQA – Environmental Impact Report

• Purpose of EIR
  • Disclose potential impacts of SCE’s proposed project and alternatives
  • Identify mitigation to reduce adverse impacts
  • Consider a reasonable range of alternatives to SCE’s proposed project
  • Give the public an opportunity to provide input
  • Provide information for decision makers to consider
CEQA Review Process

- PEA Reviewed and Deemed Complete
- Notice of Preparation/Scoping Meeting
- Draft EIR Issued
- Public Comments on Draft EIR
- Final EIR

SCE Files Application and PEA

Administrative Proceeding

- Protests to Application Filed
- Prehearing Conference
- Scoping Memo
- Public Participation Hearings
- Testimony
- Evidentiary Hearings
- Briefs

Comments on ALJ's Proposed Decision

Administrative Law Judge's (ALJ's) Proposed Decision

CPUC Vote and Final EIR Certification

Process per CEQA (Public Resources Code §21000 et seq.) and CEQA Guidelines

Process per Public Utilities Code and CPUC Rules of Practice and Procedure

WE ARE HERE
## Looking Back: EIR Process

<table>
<thead>
<tr>
<th>Stage</th>
<th>Objectives</th>
<th>Timeline</th>
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</thead>
<tbody>
<tr>
<td>Notice of Preparation/Scoping</td>
<td>• Collect comments from public and agencies on scope of the EIR</td>
<td>June 5 to July 5, 2015 (30 days) Meeting on June 23, 2015</td>
</tr>
<tr>
<td>Draft EIR Preparation</td>
<td>• Conduct analysis of environmental impacts of SCE’s proposed project.</td>
<td>Draft EIR released April 29, 2016</td>
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<tr>
<td></td>
<td>• Develop and analyze reasonable range of alternatives to SCE’s proposed project.</td>
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## Looking Forward: EIR Process

<table>
<thead>
<tr>
<th>Stage</th>
<th>Objectives</th>
<th>Timeline</th>
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</table>
| Draft EIR Public Review      | • Collect comments from public and agencies on analysis and alternatives in EIR  
                              | • Public meeting                                                            | April 29 to June 13, 2016 (45 days) |
| Response to Comments/ Final EIR | • Respond to public comments on Draft EIR  
                                | • Revise Draft EIR as needed and publish Final EIR                          | August 2016                        |
| Certification of Final EIR and Project Decision | • CPUC Certifies EIR  
                                | • Makes decision on SCE’s proposed project                                  | Late 2016/ Early 2017              |
| Mitigation Monitoring        | • Monitor and report compliance with mitigation measures                      | Prior to and during construction and operation, if project approved          |
Project Location Overview

Overview:
- **Existing substation**
- Conversion of an existing distribution line from overhead to underground between three street lights
- **Main project area**
- **Substations where ground-disturbance will occur**

Telecommunications routes:
- 1
- 2
- 3

Existing substation
Proposed substation footprint
City boundary
County boundary

Mesa 500-kV Substation Project
Overview of Main Components
Main Project Area
Description of SCE’s Proposed Project: Mesa Substation

- Upgrade existing 220/66/16 kV Mesa Substation to 500/220/66/16 kV substation
  - Substation footprint would increase from 21.6 acres to 69.4 acres
  - SCE currently owns most of the substation site, approximately 86 acres
  - Existing 220-kV substation must remain in operation while constructing new 500-kV substation
- Remove, replace, and relocate existing Metropolitan Water District 72-inch-diameter water line with an 84-inch-diameter waterline
- SCE estimates construction will take 4.5 years
Description of SCE’s Proposed Project: Mesa Substation *(continued)*

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity/Specifications</th>
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<tbody>
<tr>
<td>New substation</td>
<td>69.4 acres on 86.2-acre site</td>
</tr>
<tr>
<td>500-kV switchrack</td>
<td>8.2 acres</td>
</tr>
<tr>
<td>200-kV switchrack</td>
<td>6.8 acres</td>
</tr>
<tr>
<td>Transformer banks</td>
<td>• 500/220kv: 3 transformer banks/11 transformers</td>
</tr>
<tr>
<td></td>
<td>• 220/66kv: 1 bank/3 transformers</td>
</tr>
<tr>
<td></td>
<td>• 66/16kv: 1 bank/2 transformers</td>
</tr>
<tr>
<td>Mechanical and equipment rooms</td>
<td>1 senior, 1 junior</td>
</tr>
</tbody>
</table>
SCE’s Proposed Project Description: Transmission Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Actions</th>
</tr>
</thead>
</table>
| Transmission (500 kV & 220 kV) | • Remove 1 overhead structure  
• Replace approx. 20 overhead structures (3 500-kV, 17 220-kV)  
• 500kv: height of 140 to 200 feet  
• 220kV: height of 100 to 190 feet |
| Sub-transmission (66 kV)  | • Remove approx. 65 overhead structures  
• Removal of 2,000 feet of underground conductor  
• Install 24 new overhead structures, 50 to 100 feet high, 3 to 5 feet in diameter. Concrete foundations, 5 to 7 feet in diameter  
• Install approx. 27,400 feet of underground duct, approx. 28 underground vaults (10’ x 20’ x 8’) |
| Distribution (16 kV)       | • Install approx. 5,000 feet of underground duct and 5 underground vaults (7’ x 18’ x 8’) |
### SCE’s Proposed Project Description: Transmission Components (continued)

<table>
<thead>
<tr>
<th>Component</th>
<th>Actions</th>
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</thead>
<tbody>
<tr>
<td>Temporary Electric Supply</td>
<td>• Install temporary steel pole at Goodrich Substation in Pasadena to maintain electrical service during construction</td>
</tr>
<tr>
<td>Equipment Upgrades/Testing (220 kV)</td>
<td>• Replace/upgrade 220 kV equipment at 13 existing substations</td>
</tr>
<tr>
<td>Equipment Upgrades/Testing (66 kV)</td>
<td>• Upgrade 66 kV equipment at 16 existing substations</td>
</tr>
<tr>
<td>Tower Replacement</td>
<td>• Replace existing transmission tower in Commerce</td>
</tr>
<tr>
<td>Underground Conversion</td>
<td>• Conversion of existing street light conductor from overhead to underground in Bell Gardens</td>
</tr>
<tr>
<td></td>
<td>• Installation of approx. 3 pullboxes, approx. 300 feet of one 3-inch conduit</td>
</tr>
</tbody>
</table>
### SCE’s Proposed Project Description: Telecommunications Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Actions</th>
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</thead>
<tbody>
<tr>
<td>Fiber optic</td>
<td>• Reroute one existing overhead line to clear Mesa Substation</td>
</tr>
<tr>
<td></td>
<td>• Mostly on existing poles or in existing ducts</td>
</tr>
<tr>
<td>New telecommunications line</td>
<td>• Install two new lines into Mesa Substation mostly on existing poles or in existing ducts</td>
</tr>
<tr>
<td></td>
<td>• Install new underground telecommunications within and immediately adjacent to Goodrich Substation</td>
</tr>
<tr>
<td>Telecommunications reroute</td>
<td>• Reroute existing telecommunications within fence lines of three existing substations</td>
</tr>
</tbody>
</table>
Environmental Impacts

• SCE’s proposed project would have significant and unavoidable impacts on the following resources:
  
  • **Aesthetics:** Long-term visual character and quality degradation during operation at the substation site. Visual character and quality degradation during operation from views from North Vail Avenue in Montebello.
  
  • **Air Quality:** Temporary carbon monoxide emissions during construction. Temporary exposure of sensitive receptors to nitrogen oxides during construction.
  
  • **Noise:** Temporary violation of noise ordinances of several local jurisdictions. Substantial temporary ambient noise increase during construction activities.
Construction Activities: Air Quality Impacts

- Grading
  - 600,000 cubic yards of cut and fill
  - Import 100,000 cubic yards of fill
  - Export 115,000 cubic yards of cut

- Truck & vehicle “passenger car equivalent” trips (Phase I)
  - ~800 worker vehicle trips (one-way) per day
    - (1 worker vehicle trip = 1 passenger car equivalent trip)
  - ~530 medium truck trips (one-way) per day
    - (1 medium truck trip = 2 passenger car equivalent trips)
  - ~800 large truck trips (one-way) per day
    - (1 large truck trip = 3 passenger car equivalent trips)
Environmental Impacts

• SCE’s proposed project would have less than significant impacts on the following resources with the implementation of mitigation measures identified in the Draft EIR:
  • Biological Resources
  • Cultural and Paleontological Resources
  • Geology, Soils, and Minerals
  • Hazards and Hazardous Materials
  • Hydrology and Water Quality
  • Public Services and Utilities
  • Traffic and Transportation
Cumulative Impacts

• SCE’s proposed project would considerably contribute to significant cumulative impacts of the following resources:
  • Air quality – local exposure to NOx emissions at the Mesa Substation site
  • Noise – temporary substantial increase in ambient noise due to construction noise
Alternatives Screening Process

• Nine alternatives were screened to determine if they could feasibly meet most of the project objectives and avoid or substantially reduce at least one significant impact of the proposed project.

• Three of the alternatives passed the screening criteria and were carried forward for evaluation in the Draft EIR.

• Chapter 3 of the Draft EIR explains alternatives considered and rationale for analysis or elimination.
Alternatives Considered in the Draft EIR

- **One-Transformer Bank (1600 MVA) Substation**
  - Build new substation at same site with same orientation with one 1600-MVA transformer bank
Alternatives Considered in the Draft EIR

- **Two-Transformer Bank (1120 MVA) Substation**
  - Build new substation at same site with same orientation with two 1120-MVA transformer banks
Alternatives Considered in the Draft EIR

• Gas Insulated Substation
  • Build new substation at same site with same orientation with gas insulated switchgear
Alternatives Considered in the Draft EIR

• No Project Alternative
  • Evaluation of the No Project Alternative is required by CEQA.
  • Represents scenario that would occur if SCE’s proposed project is not approved
  • Does not achieve all project objectives
  • Includes implementation of a load shed scheme, generation procurement in the Western Los Angeles Basin, and an alternative 500-kV transmission project
Environmentally Superior Alternative

• One Transformer Bank (1600 MVA) Alternative

  • Substantially reduces impacts on **Air Quality**
    • Reduced fugitive dust emissions from ground disturbance

  • Substantially reduces impacts on **Biological Resources**
    • Reduces impacts on avian and special status species and habitat.
    • Reduces impacts on riparian habitat and potentially jurisdictional waters

  • Substantially reduces impacts from **Hazardous Materials**
    • Reduces the amount of transformer oil stored on site during operation
Comments on Draft EIR must be received or postmarked by June 13, 2016

- Written comments may be submitted at this meeting or by mail, email, or fax.
- Comments are due by 5:00pm on June 13, 2016

<table>
<thead>
<tr>
<th>Mail</th>
<th>Email</th>
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<tbody>
<tr>
<td>Lisa Orsaba</td>
<td><a href="mailto:Mesa.CPUC@ene.com">Mesa.CPUC@ene.com</a></td>
</tr>
<tr>
<td>California Public Utilities Commission</td>
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<tr>
<td>RE: Mesa 500-kV Substation Project</td>
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<tr>
<td>c/o Ecology and Environment, Inc.</td>
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<tr>
<td>505 Sansome Street, Suite #300</td>
<td></td>
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<tr>
<td>San Francisco, CA 94111</td>
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<tr>
<td>Fax (415) 398-5326</td>
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For More Information

• Visit the Project Website:
  • http://tinyurl.com/mesasubstation

• Information Repositories
  • Monterey Park Library: 318 S Ramona Ave, Monterey Park
  • Montebello Library: 1550 W Beverly Blvd, Montebello

• Email EIR Team:
  • Mesa.CPUC@ene.com

• Call the Project Information Line:
  • (844) 538-6992
Informal Discussion Session with EIR Preparers