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PROJECT MEMORANDUM
SCE WEST OF DEVERS (WOD) UPGRADE PROJECT

To: Billie Blanchard, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: August 3, 2018
Subject: Monitoring Report #26: July 23 to 29, 2018

Introduction

This report provides a summary of the construction and compliance activities associated with Southern California Edison’s (SCE) West of Devers (WOD) Upgrade Project.

CPUC Environmental Monitor (EM): CPUC EM, Jamie Miner, was onsite July 26. CPUC Lead EM Jenny Slaughter was onsite July 23, 24, and 26.

CPUC Notices to Proceed (NTPs)

Table 1 summarizes the NTPs with construction for the WOD Upgrade Project.

Table 1 - NTPs
(Updated 08/03/18)

NTP #	Date Requested	Date Issued	Phase	Description
NTP #1	04/04/17	06/29/17	Material Yards	Construction or use of 10 Material Yards
NTP #2	05/18/17	06/29/17	Substation Upgrades	Upgrades to 5 existing Substations
NTP #3	06/05/17	08/10/17	Distribution, Subtransmission, and Telecom	Construction of the Distribution, Subtransmission, and Telecommunication portions of the Project
NTP #4	07/13/17	09/05/17	Transmission	Transmission Line Construction on private lands
NTP #5	08/07/17	03/29/18	Construction on BLM lands	Transmission Line construction on BLM lands

Construction & Compliance

A summary of construction and compliance activities is provided below by NTP.

Material Yards (NTP #1)

As defined in NTP #1, Project material yards (MY) include:

- Mountain View #1 MY
- Lugonia MY
- Grand Terrace MY
- Poultry MY



- San Timoteo MY
- Beaumont #1 MY
- Beaumont #2 MY
- Matich MY
- Hathaway #2 MY
- Devers MY

CPUC granted authorization for material storage at the Devers MY in early October 2017. This authorization did not include any activities associated with construction or yard improvements, which are not expected to be required for the project.

After verification that preconstruction measures had been fulfilled, CPUC authorization to begin yard preparation work at the Mountain View #1 and Poultry MYs was provided on February 14, 2018, and authorization for the Beaumont #2 MY was granted on March 2, 2018. The preconstruction compliance package for the Matich MY was received April 16, 2018 and authorization to begin yard preparation work was provided on May 1, 2018. The preconstruction compliance package for the Grand Terrace MY was submitted on June 18, 2018. CPUC granted authorization to proceed on June 21, 2018.

Summary of Construction Activity

1. For the currently approved material yards, Cold Smoke Fence Company is installing chain link fencing. All other activities are being performed by the contractor operating out of each respective yard.
2. The Poultry MY is being utilized by Barnard Construction and Power Grade Incorporated as their primary base of operations and material/equipment storage location. Work associated with the Poultry MY included materials/equipment deliveries and general yard maintenance throughout the monitoring period.
3. The Matich MY is being utilized by Barnard Construction primarily for tubular steel pole (TSP) storage. No construction activities occurred at the Matich MY throughout the monitoring period.
4. The Mountain View #1 MY is being utilized by Hot Line Construction as their primary base of operations and materials/equipment storage location. Work associated with the Mountain View #1 MY was limited to material/equipment deliveries and general yard maintenance throughout the monitoring period.
5. The Beaumont #2 MY is being utilized by CJ/Aldridge Drilling as their primary base of operations and material/equipment storage location. Material/equipment deliveries and general yard maintenance occurred at the Beaumont #2 MY throughout the monitoring period.
6. The Grand Terrace MY is being used primarily as a show-up location for project construction crews. Work associated with the Grand Terrace MY during the reporting period included the installation of chain link perimeter fencing (see Photo 1).
7. No project-related activities occurred at the Devers MY throughout the monitoring period.

Environmental Compliance

1. All construction activities associated with NTP #1 were in compliance with Project mitigation measures, permit conditions, and plan requirements throughout the monitoring period.
2. There were no SWPPP maintenance items associated with NTP #1 recorded during the monitoring period. To date, there are no open SWPPP maintenance items associated with NTP #1.

3. There were no reportable (> 1 gallon) or non-reportable (< 1 gallon) spills associated with NTP #1 identified during the monitoring period.
4. There was one new active nest and no fledged/failed (non-project) nests associated with NTP #1 reported during the monitoring period. To date, there is one active nest (northern mockingbird) located within work areas associated with NTP #1. If required, nest buffers for non-special-status bird species will be implemented by SCE per the requirements of the Project Nesting Bird Management Plan (NBMP). There was one approved buffer reduction for non-special-status species for work areas associated with NTP #1 recorded during the monitoring period. If required, removal of inactive non-special-status bird species' nests is being implemented per the requirements of the Project NBMP. There were no such nests removed from work areas associated with NTP #1 recorded during the monitoring period.
5. No special-status species were observed or identified at locations associated with NTP #1 during the monitoring period.

Substations (NTP #2)

Five substations are identified for improvements in NTP #2. These include:

- Etiwanda Substation
- San Bernardino Substation
- Vista Substation
- El Casco Substation
- Devers Substation

The preconstruction packages for the Etiwanda, Vista, and Devers Substations were submitted by SCE on July 23, 2018. CPUC authorization for each of these substation was granted on July 26, 2018.

Summary of Construction Activity

1. For the currently approved substation components, all work is being conducted by SCE crews.
2. Work associated with the San Bernardino Substation upgrades included mounting and pre-wiring cabinets and connecting control cable inside the MEER building.
3. Work associated with the El Casco Substation was limited to opening disconnect switches to facilitate nest removal (see #4 below).
4. No construction activities associated with the Etiwanda Substation occurred throughout the monitoring period.
5. No construction activities associated with the Vista Substation occurred throughout the monitoring period.
6. No construction activities associated with the Devers Substation occurred throughout the monitoring period.

Environmental Compliance

1. All construction activities associated with NTP #2 were in compliance with Project mitigation measures, permit conditions, and plan requirements throughout the monitoring period.
2. There were no SWPPP maintenance items associated with NTP #2 recorded during the monitoring period. To date, there are no open SWPPP maintenance items associated with NTP #2.

3. There were no reportable (> 1 gallon) or non-reportable (< 1 gallon) spills associated with NTP #2 identified during the monitoring period.
4. There were no new active nests and six fledged/failed (non-project) nests associated with NTP #2 reported during the monitoring period. To date, there are no active nests located within work areas associated with NTP #2. On April 26, SCE requested agency concurrence to permit ingress/egress through any future active least Bell's vireo (LBVI) nest buffers encompassing the El Casco Substation access road. Concurrence from USFWS was granted on May 3. If required, nest buffers for non-special-status bird species will be implemented by SCE per the requirements of the NBMP. There were two approved buffer reductions for non-special-status species for work areas associated with NTP #2 recorded during the reporting period. If required, removal of inactive non-special-status bird species' nests is being implemented per the requirements of the Project NBMP. There was one such nest removed from work areas associated with NTP #2 recorded during the monitoring period. Due to safety factors, shooting and distributing photos of the inside of the nest prior to removal (as required in the NBMP) was not feasible. Consequently, SCE provided an alternative approach to the CPUC and other agencies on July 27, 2018. This approach outlined the steps that would be implemented to safely assess and remove the nest, which was required to energize a breaker at the substation to avoid overloading circuits. The procedure was implemented on July 28, 2018 and the inactive nest was safely removed (see Photo 2). Two additional nests that were located in the same general area were left in place once it was determined that the nests still contained eggs. After extended periods of observations by qualified avian biologists, these eggs were considered inviable and the nests were determined to be inactive. However, it was concluded that the nests did not represent an immediate threat to safety or reliable delivery of service.
5. No special-status species were observed or identified at locations associated with NTP #2 during the monitoring period.

Distribution, Subtransmission, and Telecommunication Work (NTP #3)

As defined in NTP #3, distribution improvements consist of three work packages. These include:

- Dental 12-kV Distribution Circuit (Dental Circuit)
- Intern 12-kV Distribution Circuit Underbuild (Intern Circuit)
- Reconductor on Juanita Street (Juanita Reconductor)

As defined in NTP #3, subtransmission improvements consist of three work packages. These include:

- Removal of San Bernardino–Redlands-Timoteo and the San Bernardino–Redlands-Tennessee 66-kV Lines (Timoteo-Tennessee Removal)
- Relocation of San Bernardino–Redlands-Timoteo 66-kV Lines (Timoteo Relocation)
- Relocation of San Bernardino–Redlands-Tennessee 66-kV Lines (Tennessee Relocation)

As defined in NTP #3, telecommunication improvements consist of six work packages. These include:

- San Bernardino Substation Connection to Redlands Inland Empire District Office (San Bernardino Connection),
- Timoteo-Redlands District Office Fiber Optic Cable Connection (Timoteo-Redlands Connection),
- El Casco Substation Connection to Vista Moreno OPGW (El Casco Connection),
- Maraschino Substation Connection to Devers-Valley OPGW (Maraschino Connection),

- El Casco–Banning Connection to Devers-Vista Skywrap (El Casco–Banning Connection), and
- Banning Substation Connection to Devers-Valley OPGW (Banning Connection).

SCE submitted the preconstruction compliance package associated with work along Smith Creek for the Banning Connection on July 23, 2018. CPUC authorization is was granted on July 26, 2018.

To date, all other telecommunication, distribution, and subtransmission pre-compliance materials associated with NTP #3 have been submitted and approved.

Summary of Construction Activity

1. For the currently approved subtransmission and distribution components, major construction activities are being performed primarily by Hot Line Construction with support from CJ Drilling, Barnard Construction, and SCE crews.
2. Distribution work associated with the Dental and Intern Circuits included potholing for existing utilities and general clean-up along Mission Road in the City of Loma Linda.
3. Work associated with the Timoteo Relocation subtransmission improvements included excavation and installation of underground vaults, trenching for underground alignment, installation of underground conduit and conductor wire, erecting lightweight tubular steel poles (LWTSPs) and tubular steel poles (TSPs), and general clean-up.
4. Work associated with the Tennessee Relocation subtransmission improvements included trenching for underground alignment, installation of underground conductor wire, repairing concrete sidewalks, and general clean-up.
5. No construction activities associated with the Juanita Reconductor occurred throughout the monitoring period.
6. No construction activities associated with the Timoteo-Tennessee Removal occurred throughout the monitoring period.
7. No construction activities associated with the San Bernardino Connection occurred throughout the monitoring period.
8. No construction activities associated with the Timoteo-Redlands Connection occurred throughout the monitoring period.
9. No construction activities associated with the El Casco Connection occurred throughout the monitoring period.
10. No construction activities associated with the Banning Connection occurred throughout the monitoring period.
11. Work associated with the Maraschino Connection telecommunications improvements has been completed.
12. Work associated with the El Casco–Banning Connection telecommunications improvements has been completed.

Environmental Compliance

1. The CPUC EM observed a sweeper attachment in use by subtransmission crews (see Photo 3). The sweeper was not consistent with the type identified in the SWPPP and the Project QSP was notified. SCE ultimately provided an approval for use of this type of sweeper attachment, and updated information was added to the SWPPP.

2. Due to power loading issues associated with hot weather, line outages in place to perform underground conductor wire installation are being periodically rescheduled to overnight hours. A revised encroachment permit from the City of Redlands, which included approval for overnight work associated with installation of underground cable only was provided on July 25, 2018. On July 26, SCE provided an additional approval via email from the City of Redlands for overnight work for the installation of a TSP along Barton Road associated with the Tennessee Connection.
3. There were no SWPPP maintenance items associated with NTP #3 recorded during the monitoring period. To date, there are no open SWPPP maintenance items associated with NTP #3.
4. There were no reportable (> 1 gallon) or non-reportable (<1 gallon) spills associated with NTP #3 identified during the monitoring period.
5. There were no new active nests and no fledged/failed nests associated with NTP #3 reported during the monitoring period. To date, there are no active nests located within work areas associated with NTP #3. If required, nest buffers for non-special-status bird species will be implemented by SCE per the requirements of the Project NBMP. There were no approved buffer reductions recorded for non-special-status species for work areas associated with NTP #3 during the reporting period. If required, removal of inactive non-special-status bird species' nests is being implemented per the requirements of the Project NBMP. There were no such nests removed from work areas associated with NTP #3 recorded during the monitoring period.
6. No special-status species were observed or identified at locations associated with NTP #3 during the monitoring period.

Transmission Work (NTP #4)

NTP #4 includes six transmission line segments, identified as Segments 1 through 6, generally moving from west to east.

The preconstruction compliance package for Segment 4 was received May 1, 2018 and authorization was granted on May 4, 2018. The preconstruction package for Segment 3 was received on June 1, 2018. Authorization was granted on June 12, 2018. The preconstruction package for Segment 1 was received on July 6, 2018 and authorization was granted on July 10, 2018. The preconstruction package for Segment 2 was received on July 16, 2018 and approved on July 18, 2018.

Summary of Construction Activity

1. For the currently approved transmission components, Power Grade Incorporated is conducting access road maintenance/stabilization, BMP installation, vegetation removal, and site grading. CJ drilling is performing foundation drilling and concrete pouring.
2. Work associated with Segment 3 included access road maintenance and installing BMPs at Tower Sites 3X22, 3X24, 3X25, 3X26, 3X40, 3X41, and 3X42. Vegetation removal was conducted at Tower Site 3X21. Grading activities were conducted at Tower Sites 3X22 and 3X23.
3. Work associated with Segment 4 included installing BMPs at Tower Sites 4X46 and 4N63. Vegetation removal occurred at Tower Site 4X45, 4X46, and 4N62. Grading activities were conducted at Tower Sites 4X45, 4X46, and 4N62. Foundation drilling and concrete pouring occurred at Tower Sites 4X47 and 4X48 (see Photo 4).

Environmental Compliance

1. The CPUC EMs noted that dust suppression was ineffective at Tower 4X47 during foundation drilling activities. Fugitive dust was observed to be leaving the site (see Photo 5).
2. There were no SWPPP maintenance items associated with NTP #4 reported by SCE during the monitoring period. To date, there are no open SWPPP maintenance items associated with NTP #4.
3. There were no reportable (> 1 gallon) or non-reportable (<1 gallon) spills associated with NTP #4 identified during the monitoring period.
4. There was one new active nest and two fledged/failed nests associated with NTP #4 identified during the monitoring period. To date, there are three active nests (house finch, mourning dove, and Cassin's kingbird) located within work areas associated with NTP #4. If required, nest buffers for non-special-status bird species will be implemented by SCE per the requirements of the Project NBMP. There were no approved buffer reduction for non-special-status species for work areas associated with NTP #4 recorded during the reporting period. If required, removal of inactive non-special-status bird species' nests is being implemented per the requirements of the Project NBMP. There were no such nests removed from work areas associated with NTP #4 recorded during the monitoring period.
5. No special-status species were observed or identified at locations associated with NTP #4 during the monitoring period.

Transmission Work BLM Lands (NTP #5)

NTP #5 includes the portion of one transmission line segment, identified as Segment 6, which traverses properties managed by the Bureau of Land Management (BLM). NTP #5 was approved by BLM on March 29, 2018. To date, no work authorized by NTP #5 has been requested or has occurred.

Temporary Extra Workspaces (TEWS) and Minor Project Refinements (MPRs)

Table 2 summarizes the TEWS and MPRs for the WOD Upgrade Project to date.

Table 2 - TEWS & MPRs
(Updated 08/03/18)

TEWS / MPC	Date Requested	Date Issued	Phase	Description
Temporary Extra Workspaces (TEWS)				
TEWS #1	10-12-17	10-19-17	Maraschino Connection	Access to Beaumont Cherry Valley District water hydrant meter located near the intersection of Highland Springs Avenue and Crooked Creek, Beaumont.
TEWS #2	11-13-17	11-21-17	El Casco–Banning Connection	Water source on Oak Valley Boulevard.
TEWS #3	12-15-17	12-15-17	Banning Connection	Access to existing poles off of Lincoln Street.
TEWS #4	12-18-17	12-18-17	Banning Connection	Access to existing poles off of Wesley Street.

TEWS / MPC	Date Requested	Date Issued	Phase	Description
TEWS #5	12-20-17	12-21-17	Banning Connection	Access to existing poles at intersection of Wesley Street and Old Idyllwild Road
TEWS #6	6-13-18	6-13-18	Timoteo Relocation	Extra workspace to facilitate erection of TSP #4696058 at intersection of Redlands Boulevard and Bryn Mawr Street
TEWS #7	7-27-18	7-30-18	Timoteo Relocation	Extra workspace to facilitate wire pulling activities along Research Drive and Almond Avenue
Minor Project Refinements (MPRs)				
MPR #1	11-17-17	11-22-17	Maraschino Connection	Revisions to the amount of new underground telecom construction.
MPR #2	12-13-17	12-15-17	Maraschino Connection	Addition of two vault work areas on Highland Springs Road.
MPR #3	12-21-17	12-28-17	El Casco–Banning Connection	Adjustments to alignment along Oak Valley Parkway
MPR #4	12-27-17	1-3-18	Maraschino/ El Casco–Banning Connections	Continued use of two fire hydrants previously approved as TEWS #1 and TEWS #2
MPR #5	1-16-18	1-22-18	Banning Connection	Continued use of access routes described in TEWS #3, 4, and 5 and temporary access paths through private property along Coyote Trail
MPR #6	2-8-18	2-12-18	Project-wide	Use of 10 water sources to support construction activities
MPR #7	2-23-18	2-28-18	Poultry MY	Temporary water and electrical supply to yard
MPR #8	2-27-18	3-2-18	El Casco Connection/ Segment 1	New telecom splice location and single new steel pole installation
MPR #9	3-26-18	3-27-18	El Casco Connection	Telecom work areas along El Casco Substation access road
MPR #10	4-6-18	4-9-18	Mountain View #1 MY/All subtrans	Additional work spaces at Mountain View #1 MY entry and at subtransmission improvements work areas
MPR #11	5-4-18	5-8-18	Tennessee Relocation	Relocation of 5 subtransmission structures from the east side to the west side of Nevada Street
MPR #12	5-14-18	5-16-18	Timoteo Relocation	Additional work space for TSP erection at Bryn Mawr Avenue and Interstate 10.

TEWS / MPC	Date Requested	Date Issued	Phase	Description
MPR #13	5-23-18	5-25-18	Project-wide	Addition of encased fire hose to O'Grady Court water source and use of 17 water sources to support construction activities
MPR #14	5-24-18	5-31-18	Timoteo/ Tennessee Relocations	Location shift of 3 TSPs and 1 vault location
MPR #15	5-31-18	6-4-18	Poultry MY	Paving of access road and trailer complex area
MPR #16	6-11-18	6-13-18	Banning Connection	Shift of horizontal directional drilling (HDD) alignment through Smith Creek and addition of walking paths along Coyote Trail
MPR #17	6-20-18	6-22-18	Dental Circuit/ Tennessee Relocation	Additional work space along Mission Road, Lugonia Avenue, and Nevada Street

CPUC Compliance Incidents, Project Memoranda (PMs) and Non-Compliance Reports (NCRs)

Table 3 summarizes the CPUC Incidents, PMs, and NCRs issued to date.

Table 3
CPUC Incidents, Project Memoranda, and Non-Compliance Reports
(Updated 08/03/18)

Incident/ PM/NCR	Regulatory Requirement	Date Issued	Phase	Description
Level 1 Incident	Traffic Control Plan	01-30-18	Banning Connection	Traffic control was set up in such a way that diverted flow into active work area and deviated from approved Traffic Control Plan.
Level 1 Incident	MM WIL-1b	04-19-18	Timoteo/ Tennessee Relocation	A portable water tank was observed uncovered for four consecutive days.
Level 1 Incident	MM VEG-1a	5-24-18	El Casco Substation	Equipment was staged outside of approved disturbance limits for at least 1-2 days.

PROJECT PHOTOGRAPHS



Photo 1 – Installation of fence posts at the Grand Terrace MY (photo courtesy of SCE, July 27, 2018).

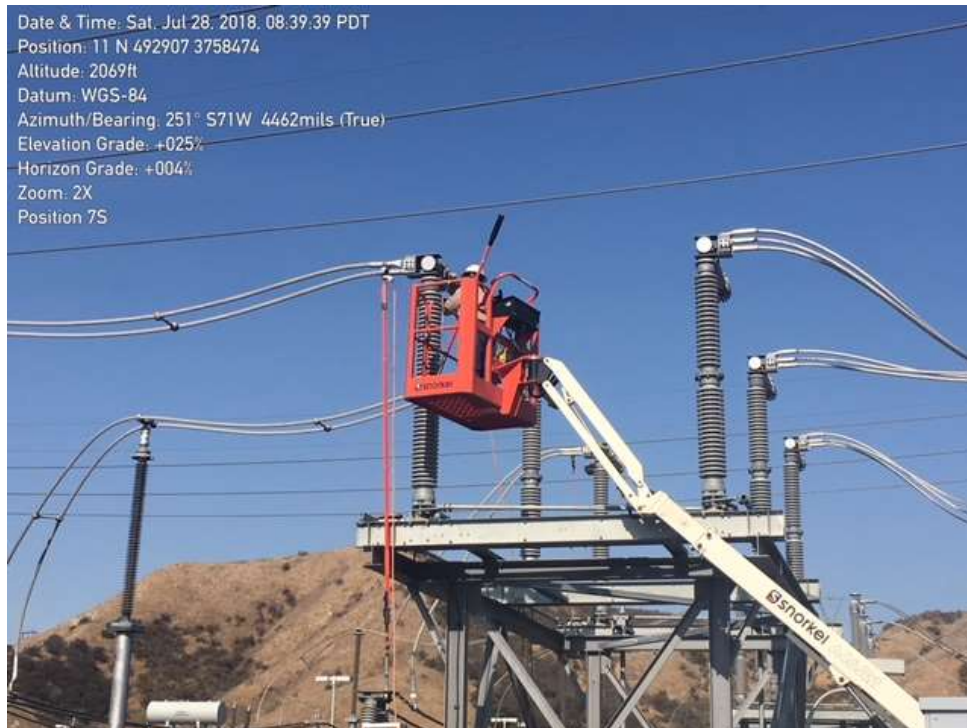


Photo 2 – SCE crew opening switch and conducting nest removal at El Casco Substation (photo courtesy of SCE, July 28, 2018).



Photo 3 – Hotline crew using sweeper attachment which was inconsistent with what was proposed in the SWPPP (July 24, 2018).



Photo 4 – Foundation activities occurring at Tower Site 4X47 (July 26, 2018).



Photo 5 – Fugitive dust during foundation activities at Tower Site 4X47 (July 26, 2018).