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PROJECT MEMORANDUM
SCE WEST OF DEVERS UPGRADE PROJECT

Date: January 31, 2019
To: Billie Blanchard, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Subject: Monitoring Report #47: January 13 to January 19, 2019

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. As of the closing of this monitoring period, SCE estimates total project completion at approximately 20%.

CPUC Environmental Monitor (EM): CPUC EM Brady Daniels was onsite January 15-18 and CPUC Lead EM Jenny Slaughter was onsite January 15-17, 2019.

CPUC Notices to Proceed (NTPs)

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

Table 1 - NTPs
(Updated 01/31/19)

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

To date, all material yard pre-compliance materials associated with NTP #1 that have been submitted have been approved.

Summary of Construction Activity

1. For the currently approved MYs, all activities are being performed by the contractor operating out of each respective yard. No MY construction activities were conducted during the subject reporting period.
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 material/equipment deliveries and general yard maintenance throughout the monitoring period. Helicopter operations out of Poultry MY continued throughout the monitoring period; however, these operations were temporarily halted between January 15-20 due to two safety incidents (see discussion of NTP #4 transmission construction compliance below).
3. The Matich MY is being utilized by Barnard Construction primarily for tubular steel pole (TSP) storage. Work associated with the Matich MY included material/equipment deliveries 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.
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 will be used primarily as a show-up location for project construction crews.
7. No project-related activities occurred at the Devers MY throughout the monitoring period.

Environmental Compliance

1. There were no SCE self-reported incidents and no CPUC incidents documented for construction activities associated with NTP #1 throughout the monitoring period.
2. There were no SWPPP maintenance items associated with NTP #1 during the monitoring period.
3. There were no reportable (> 1 gallon) and no non-reportable (< 1 gallon) spills associated with NTP #1 identified during the monitoring period.
4. No new nests were reported during the subject period. If required, management, including the removal of inactive non-special-status bird species' nests is being implemented per the requirements of the Project Nesting Bird Management Plan (NBMP).
5. No Special-status species were observed or reported 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 managed by Circle Wood Services with construction support from TTR Substations.
2. Work associated with the El Casco substation included switch disconnection at position 7 north and south.
3. No construction activities associated with the other substations (Vista, Devers, Etiwanda, and El Casco) occurred throughout the monitoring period.

Environmental Compliance

1. There were no SCE self-reported or CPUC incidents documented for construction activities associated with NTP #2 throughout the monitoring period.
2. There were no SWPPP maintenance items or corrective actions associated with NTP #2 recorded during the monitoring period.
3. There were no reportable (> 1 gallon) and no non-reportable (< 1 gallon) spills associated with NTP #2 identified during the monitoring period.
4. 23 inactive nests were reported at the El Casco and San Bernardino Substations during the subject period. These nests were removed during the subject period after monitoring to confirm inactivity took place by project biologists, consistent with the NBMP.
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. The construction status of each is also presented. These include:

- Dental 12-kV Distribution Circuit (Dental Circuit) – Substantially complete, some restoration remaining.
- Intern 12-kV Distribution Circuit Underbuild (Intern Circuit) – Substantially complete, some restoration remaining.
- Reconductor on Juanita Street (Juanita Reconductor) – Substantially complete, some restoration remaining.

As defined in NTP #3, subtransmission improvements consist of three work packages. The construction status of each is also presented. These include:

- Removal of San Bernardino–Redlands-Timoteo and the San Bernardino–Redlands-Tennessee 66-kV Lines (Timoteo-Tennessee Removal) – Approximately 60% complete; expected completion in February 2019.
- Relocation of San Bernardino–Redlands-Timoteo 66-kV Lines (Timoteo Relocation) – Near completion; one Hotline splice remaining before SCE can do the final splice work at Bryn Mawr and Redlands Boulevard.
- Relocation of San Bernardino–Redlands-Tennessee 66-kV Lines (Tennessee Relocation) – Substantially complete; some restoration remaining.

As defined in NTP #3, telecommunication improvements consist of six work packages. The construction status of each is also presented. These include:

- San Bernardino Substation Connection to Redlands Inland Empire District Office (San Bernardino Connection) – Near completion; outage required to transfer the circuit to the new cable and remove the old cable.
- Timoteo-Redlands District Office Fiber Optic Cable Connection (Timoteo-Redlands Connection) – Approximately 90% complete; expected completion February 2019.
- El Casco Substation Connection to Vista Moreno OPGW (El Casco Connection) – OPGW telecom stringing along San Timoteo Canyon Road is approximately 40% complete. Work expected to be completed by mid- January.
- Maraschino Substation Connection to Devers-Valley OPGW (Maraschino Connection) - Complete
- El Casco–Banning Connection to Devers-Vista Skywrap (El Casco–Banning Connection) - Complete
- Banning Substation Connection to Devers-Valley OPGW (Banning Connection) - Complete

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

Summary of Construction Activity

6. For the currently approved subtransmission and distribution components, major construction activities are being performed by Hot Line Construction. Tree trimming is being conducted by Mowbray Tree Service.
7. Subtransmission work associated with the San Bernardino–Redlands-Timoteo 66-kV included trench line repairs north of San Bernardino Avenue.
8. SCE’s telecom crew conducted roller and rope installation on existing wood poles and pulling fiber optic line along San Timoteo for the El Casco Telecom work.
9. As of the closing of this monitoring period, the construction progress of components associated with NTP #3 is as follows:
 - For distribution components, all 19 12-kV poles have been framed, all 12 12-kV underground vaults have been installed, and 7430 feet of 12-kV duct bank (conduit) and 10,670 feet of 10,760 feet of 12-kV conductor wire has been installed.
 - For subtransmission components, 119 of 119 66-kV LWTSPs have been erected, 19 of 19 TSPs have been erected, and 25,610 feet of 66-kV wire has been installed. Both the Timoteo and Tennessee circuits have been energized. Wreck-out of the existing subtransmission infrastructure is underway.

Environmental Compliance

1. There were no SCE self-reported or CPUC incidents documented for construction activities associated with NTP #3 throughout the monitoring period.
2. There were no SWPPP maintenance items or corrective actions associated with NTP #3 recorded during the monitoring period. To date, there are no open SWPPP maintenance items or corrective actions associated with NTP #3.
3. There were no reportable (> 1 gallon) or non-reportable (< 1 gallon) spills associated with NTP #3 identified during the monitoring period.
4. No new nests were reported during the subject period. If required, management, including the removal of inactive non-special-status bird species' nests is being implemented per the requirements of the Project NBMP.
5. 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.

To date, pre-compliance materials associated with NTP #4, Segments 1 through 5, have been submitted and approved. Pre-construction compliance materials for Segment 6 were submitted on December 3 and authorization to proceed with construction on non-BLM lands was issued by CPUC on December 10.

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/Aldridge Drilling is performing foundation work. Abercrombie Services is assembling and erecting new towers, and conducting wire operations with support from Summit Helicopters. Cunningham Davis Corporation is removing existing towers and foundations.
2. Work associated with Segment 1 included foundation drilling/pouring at Sites 1X21 to 1X24 and grading of access roads between Sites 1X22 and 1X24.
3. Work associated with Segment 2 included pad grading and rock wall construction at Site 2X32.
4. Work associated with Segment 3 included road maintenance between Sites 3X03-3X25, 3X35-3X45; conductor removal between Sites 3X29 and 3X55; tower assembly between Sites 3X13 and 3X22, and BMP installation/maintenance (see Photos 1 and 2).
5. Work associated with Segment 4 included water bar installation on the access road above Palmer Avenue, construction entrance repair at Tower 4S60, and BMP maintenance between Sites 4X47 and 4X65.
6. To date, no construction activities associated with Segments 5 or 6 have occurred.
7. As of the closing of this monitoring period, construction progress associated with NTP #4 is as follows:
 - 6.4 miles of minor road maintenance was completed in Segment 3.
 - Grading for foundation installation has been completed at 122 sites.
 - Foundations are completed for 79 of 386 lattice towers and 2 of 83 TSPs.
 - Erection of 11 of 386 lattice towers and 2 of 83 TSPs have been completed.

- Erection of 44 temporary shoofly locations has been completed.
 - Stringing of approximately 2.3 of 8.0 circuit miles of shoofly conductor and 2.1 of 184.0 circuit miles of mainline conductor has been completed.
 - Demolition of 20 of 602 existing structures and 19 of 415 existing foundations has been completed.
 - Wire wreck-out has been completed along 11.8 circuit miles.
8. The first proposed outage (Project Move 2) began on October 1, 2018 and has been completed. Project Move 1 in Segment 1 was completed December 22, 2018. Project Move 3 in Segment 3 began January 7, 2018 and will continue through April 26, 2019.

Environmental Compliance

1. There were no SCE self-reported compliance incidents and no CPUC incidents documented for construction activities associated with NTP #4 throughout the monitoring period. However, SCE reported two helicopter-related safety incidents on January 15, both which occurring on January 14. Both incidents occurred during conductor removal and involved mechanical failure of rigging used for conductor removal. Guard structures and traffic control were in place and no injuries or resource damage took place in either incident. Barnard and SCE implemented a safety shutdown for all conductor removal helicopter activities until an investigation could be completed. Because of the potential risk to public safety, the CPUC reviewed incident reports and safety analysis reports, and authorized all helicopter activity to resume with all corrective actions and appropriate equipment in place.
2. The CPUC EM identified a previously unidentified drainage east of Segment 3, Site 3X50 (see Photo 3). The CPUC EM reported the drainage to SCE and they have determined that the drainage feature in question is not a jurisdictional feature.
3. The CPUC EM noted that some equipment was delivered to Segment 3 Site 3X22 with uncovered holes (see Photo 4). Per Mitigation Measure WIL-1b, all pipes or other construction materials or supplies will be covered or capped in storage or laydown areas in order to prevent wildlife entrapment. The observation was reported to SCE.
4. SCE provided documentation of FAA filings for the project on September 17 and September 26; FAA concurrence will be required prior to tower installation where applicable. FAA recommended marker balls have been installed on the shoofly spans near El Casco Substation.
5. There were no SWPPP maintenance items associated with NTP #4 during the subject period; however, action items were reported in SWPPP Inspection reports for Sites 4X51, 4N59, 4N63, 3X21, 3X37, 3X55, and 3X60, all for the removal of excess sediment accumulated on BMPs. Approximately 1.5 inches of rain was documented during the weeks' storm events.
6. Track out and maintenance of the stabilized construction entrance was observed by the CPUC EMs on January 15 (see Photo 5). The issues were reported to SCE. A street sweeper was dispatched to the location and additional rock was added to the entrance.
7. There were no reportable (> 1 gallon) spills associated with NTP #4 identified during the monitoring period.
8. No new nests were identified during the reporting period associated with NTP #4 work areas.
9. Special-status species observed or identified at locations associated with NTP #4 during the monitoring period included Ferruginous hawk.

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. The preconstruction compliance package for BLM lands is currently under review by BLM. To date, no work authorized by NTP #5 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 01/31/19)

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 #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
TEWS #8	8-27-18	8-28-18	Dental/Intern Circuits	DENIED AND RESCINDED – Extra workspace to facilitate construction along Mission Road
TEWS #9	10-18-18	10-19-18	Timoteo Relocation	Extra workspace for walking path at Bryn Mawr and I-10
TEWS #10	11-05-18	11-05-18	Timoteo Relocation	Extra workspace along Barton and Mountain View Roads for cutover operations.
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.

TEWS / MPC	Date Requested	Date Issued	Phase	Description
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.
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

TEWS / MPC	Date Requested	Date Issued	Phase	Description
MPR #18	8-3-18	8-7-18	Timoteo Relocation/ Beaumont #2 MY	Expansion of vault installation work area off Mountain View Avenue and new water source near Beaumont #2 MY
MPR #19	8-13-18	8-20-18	Segment 4	Additional work space requests at Sites 4N58, 4N59, and 4N64
MPR #20	8-21-18	8-27-18	Banning Connection	Use of unpaved access road west of Smith Creek
MPR #21	10-4-18	10-10-18	Project-wide/ Segments 3&4	Use of 6 water sources, installation of water tank, use of access road, and expansion of WSS
MPR #22	11-19-18	11-20-18	Subtrans and Telecom	Pole replacement, switch replacement, and shift in underground telecom route.
MPR #23	12-11-18	12-21-18	Transmission	Site 3N32 and Move 3 work areas.
MPR #24	01-15-19	01-28-19	Transmission	Additional Wire Stringing Site in Segment 1.

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 01/31/19)

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.
Level 1 Incident	MM AQ-1a	8-15-18	Banning Connection	Fugitive dust observed from construction activities.
Level 1 Incident	MM WIL-1b	8-15-18	Banning Connection	Use of unapproved access road.
Level 1 Incident	MM WIL-1b	8-15-18	Banning Connection	Use of unapproved staging area.
Level 1 Incident	Fire Management Plan	9-18-18	Segment 4	Lack of adequate fire abatement equipment at 3 locations.

Incident/ PM/NCR	Regulatory Requirement	Date Issued	Phase	Description
Level 1 Incident	Fire Management Plan	9-20-18	Segment 4	Lack of adequate fire abatement equipment
Level 1 Incident	HH-1a	10-17-18	Segment 4	Lack of proper secondary containment for 4 pieces of equipment.
Level 1 Incident	N-1a	10-17-18	Segment 4	Work outside of approved hours
Level 1 Incident	WIL-1b	10-18-18	Grand Terrace MY	Lack of proper covering for pipes between 1.5” to 4”
Level 1 Incident	N-1a	10-18-18	Segment 4	Work outside of approved hours
Level 1 Incident	AQ-1a	10-30-18	Grand Terrace MY	Fugitive Dust Emissions Outside of Property Boundaries at the Grand Terrace Yard.
Level 1 Incident	WIL-1b	01-24-19	Segment 3	Pipes/tubing left open at Sites 3X08 and 3X10.

PROJECT PHOTOGRAPHS



Photo 1 – Tower assembly at Site 3X22, Segment 3.



Photo 2 – Access road maintenance near Site 3X59 during wet conditions, Segment 3. ESA signage of the nearby jurisdictional drainage can be seen in the photo.



Photo 3 – Previously unidentified drainage near Site 3X55, Segment 3, reported to SCE by CPUC EM. SCE determined that the feature is not jurisdictional.



Photo 4 – Uncovered holes potentially creating a wildlife entrapment hazard near Site 3X22, Segment 3. These were reported to SCE and the pipe ends were covered.



Photo 5 – Track out onto San Timoteo Canyon Road and the stabilized construction entrance to Site3X22, Segment 3. A sweeper was dispatched to clean up the street and maintenance of the stabilized entrance included addition of more rock.