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PROJECT MEMORANDUM
SCE WEST OF DEVERS UPGRADE PROJECT

Date: March 11, 2019
To: John Forsythe, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Subject: Monitoring Report #53: February 24 to March 2, 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 EMs, Jamie Miner was onsite February 26-27, 2019. CPUC EM Brady Daniels was onsite February 27-28, 2019. CPUC Lead EM Jenny Slaughter was onsite February 27, 2019.

CPUC Notices to Proceed (NTPs)

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

Table 1 - NTPs
(Updated 03/11/19)

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
- Match 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 occurred during the monitoring period (see Photo 1).
3. The Match MY is being utilized by Barnard Construction primarily for tubular steel pole (TSP) storage. Work associated with the Match MY included material/equipment deliveries throughout the monitoring period.
4. The Mountain View #1 MY is being utilized by Abercrombie Services as their primary base of operations and materials/equipment storage location. Hot Line Construction has completed all major project construction activities and are in the process of closing out their occupancy of the MY.
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 or CPUC incidents documented for construction activities associated with NTP #1 throughout the monitoring period.
2. There was one SWPPP maintenance items or corrective actions associated with NTP #1 recorded during the monitoring period for maintenance needed for the stabilized entrance to the yard. To date, there are no open SWPPP maintenance items or corrective actions 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. No new nests were reported at locations associated with NTP #1 during the monitoring period. As of the end of the monitoring, there are no active nests located within work areas associated with NTP #1. 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). No nests were removed during the subject reporting period.

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

To date, all pre-compliance materials associated with NTP #2 that have been submitted have been approved.

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 and SCE crews. Wire stringing connections between the project alignment and locations within the substations are being performed by Abercrombie Services.
2. Work at the Vista Substation included wiring control cable cabinets at Positions 1 and 2.
3. No construction activities associated with the other substations (San Bernardino, Devers, El Casco, and Etiwanda) 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. To date, there are no open SWPPP maintenance items or corrective actions 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. No new nests were reported at locations associated with NTP #2 during the monitoring period. As of the end of the monitoring period, there were three active nests (red-tailed hawk, red-shouldered hawk) located within work areas associated with NTP #2 and the required buffers have been implemented. Per conditions of the NBMP, one buffer reduction was implemented during the monitoring period and the appropriate agencies were notified. If required, management, including the removal of inactive non-special-status bird species' nests, is being implemented per the requirements of the Project NBMP. No nests were removed during the subject reporting period.
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 is 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

1. For the currently approved subtransmission and distribution components, construction activities are being performed by Hot Line Construction and SCE crews.
2. Telecom work associated with the El Casco Connection included clipping of fiber optic line along San Timoteo Canyon Road (see Photo 2).

3. 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 at locations associated with NTP #3 during the monitoring period. As of the end of the monitoring period, there is one active nest (golden eagle) located within work areas associated with NTP #3 for which the required buffer has been established and no work is planned for the area. If required, management, including the removal of inactive non-special-status bird species' nests is being implemented per the requirements of the Project NBMP. No nests were removed during the subject reporting period.
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 6, have been submitted and approved.

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 wire activities at Sites 1X10 through 1X16.
3. Work associated with Segment 2 included BMP maintenance at Sites 2N32, 2N06, and 2N04, and BMP installation at Site 2N07.
4. Work associated with Segment 3 included access road grading/maintenance at numerous locations along the alignment. Foundation installation occurred at Sites 3X35, 3X40, and 3X65. Tower assembly

occurred at Sites 3N04, 3X14, 3X25, 3X39-3X41, 3X51, and 3X62-3X64. Tower removal activities were performed at Site 3N33. Wire stringing activities were conducted between Sites 3N02 and 3X06 (see Photo 3).

5. Work associated with Segment 4 included road maintenance between Palmer Avenue and Site 3X53, and BMP maintenance and site clean-up at various locations.
6. As reported by SCE, BMP installation occurred at various sites within Morongo lands along Segment 5.
7. To date, no construction activities associated with Segment 5 (non-Morongos lands) or Segment 6 have occurred.
8. As of the closing of this monitoring period, construction progress associated with NTP #4 is as follows:
 - 3.2 miles of minor road maintenance was completed in Segment 3.
 - Grading for foundation installation has been completed at 143 sites.
 - Foundations are completed for 105 of 386 lattice towers and 8 of 83 TSPs.
 - Erection of 25 of 386 lattice towers and 2 of 83 TSPs have been completed.
 - Erection of 45 temporary shoofly locations has been completed.
 - Stringing of approximately 3.7 of 8.0 circuit miles of shoofly conductor, 2.2 of 184.0 circuit miles of mainline conductor, and 1.02 of 99.0 circuit miles of OPGW fiber has been completed.
 - Demolition of 69 of 602 existing structures and 66 of 415 existing foundations has been completed.
 - Wire wreck-out has been completed along 11.8 circuit miles.
9. 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. A site visit between SCE, SWQCB, CDFW, Aspen, Jacobs, and Barnard took place on February 27 to review specific sites in Segments 3 and 4. The group toured Sites 3X65, 3X55, 4X51, and 4N63, and the access road to Site 3N06. Areas of recent sediment discharges were reviewed as well as sites currently showing signs of erosion. Discussions took place regarding mapping of jurisdictional features, additional measures that could be implemented, particularly along access roads, to minimize erosion and sedimentation, encouraging runoff from access roads in frequent intervals, and controlling run on into construction sites. SCE will be distributing meeting notes.
2. There were no SCE self-reported or CPUC incidents documented for construction activities associated with NTP #4 throughout the monitoring period.
3. SCE provided documentation of coordination with the City of Redlands for late work on Friday, March 1 in Segment 3.
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. Additional information was provided February 11, 2019. FAA recommended marker balls have been installed on the shoofly spans near El Casco Substation.
5. Thirteen SWPPP maintenance items were presented in the SCE Weekly Compliance Report associated with NTP #4 during the monitoring period. These items were recorded in Segments 3 and 4, and

included the removal of excess sediment accumulated on BMPs, uncovered stockpiles, and the repairs of erosion damage at work sites. According to SCE’s Weekly Compliance Report, there are no overdue SWPPP maintenance items or corrective actions associated with NTP #4.

6. There were no reportable (> 1 gallon) or non-reportable (< 1 gallon) spills associated with NTP #4 identified during the monitoring period.
7. Seven new nests were reported at locations associated with NTP #4 during the monitoring period. As of the end of the monitoring period, there are thirteen active nests (red-tailed hawk, Common raven, Anna’s hummingbird) located within work areas associated with NTP #4. Buffers have been established per the Project NBMP. If required, management, including the removal of inactive non-special-status bird species’ nests is being implemented per the requirements of the Project NBMP. No nests were removed during the subject reporting period.
8. 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. The preconstruction compliance package for BLM lands was deemed acceptable by BLM on February 5. 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 03/11/19)

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 / MPC	Date Requested	Date Issued	Phase	Description
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.
TEWS #11	01-30-19	01-31-19	Timoteo Relocation	Extra workspace to facilitate the removal of fiber optic cable from overhead poles north along Mountain View Avenue and east along Redlands Boulevard.
TEWS #12	02-06-19	02-07-19	Timoteo Relocation	Extra workspace along Mountain View Avenue for subtransmission pole removal.
TEWS #13	02-26-19	02-26-19	Segment 3	Temporary access road detour for vehicle and equipment travel to/from San Timoteo Canyon Road and Tower Site 3X41.
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

TEWS / MPC	Date Requested	Date Issued	Phase	Description
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
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 03/11/19)

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.
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.
Level 1 Incident	AQ-1a	02-13-19	Segment 3	Fugitive dust along Segment 3 access road to 3X06.
Level 2 Incident	VEG-3a	02-13-19	Segment 3	Offsite sediment discharge from access road into JD ID 3054.

PROJECT PHOTOGRAPHS



Photo 1 – Helicopter operations supporting wire installation and removal at the Poultry Yard on San Timoteo Canyon Road.



Photo 2 – SCE crew installing telecom fiber along San Timoteo Canyon Road for the El Casco Connection.



Photo 3 – Wire stringing operations between Sites 3N02 and 3X06, Segment 3.



Photo 4 – Site visit to Segment 3 Site 3X55 with SWRCB, CDFW, SCE, Aspen, Jacobs. Discussions specific to this site included run on control and additional BMPs which would be implemented to reduce erosion.



Photo 5 – Site visit to Segment 3 access road to Site 3N06 with SWRCB, CDFW, SCE, Aspen, Jacobs. Discussions specific to this site included allowing increased opportunity for runoff from access roads into upland areas, controlling sedimentation into drainage feature located adjacent to the access road, and modifying drainage patterns due to repeated access road grading and berm construction.