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PROJECT MEMORANDUM
SCE WEST OF DEVERS UPGRADE PROJECT

Date: October 5, 2018
To: Billie Blanchard, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Subject: Monitoring Report #34: September 24 to 30, 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. As of the closing of this monitoring period, SCE estimates total project completion at approximately eight percent.

CPUC Environmental Monitor (EM): CPUC EM Jamie Miner was onsite September 25 and 26, 2018.

CPUC Notices to Proceed (NTPs)

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

Table 1 - NTPs
(Updated 10/05/18)

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

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.
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. 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. No project-related activities occurred at the Grand Terrace MY throughout the monitoring period.
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 were no SWPPP maintenance items or corrective actions associated with NTP #1 recorded during the monitoring period. To date, there are no open SWPPP maintenance items or corrective actions associated with NTP #1.
3. There were no reportable (> 1 gallon) and one non-reportable (< 1 gallon) spills associated with NTP #1 identified during the monitoring period. The non-reportable spill occurred at the Poultry MY and consisted of less than ¾ gallon of radiator coolant. The spill was contained to the paved surface of the MY and was immediately resolved by placing absorbent pads over the affected area.
4. The 2018 nesting season has ended. If required, removal of inactive non-special-status bird species' nests is being implemented per the requirements of the Project Nesting Bird Management Plan (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 Vista Substation included conducting pulling control cable into positions north of the MEER Building.
3. No construction activities associated with the Etiwanda Substation occurred throughout the monitoring period.
4. No construction activities associated with the San Bernardino Substation occurred throughout the monitoring period.
5. No construction activities associated with the El Casco Substation occurred throughout the monitoring period.
6. No construction activities associated with the Devers Substation 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. The 2018 nesting season has ended. If required, removal of inactive non-special-status bird species' nests is being implemented per the requirements of the NBMP. There were no such nests removed from work areas associated with NTP #2 recorded during the monitoring 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. 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).

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, major construction activities are being performed primarily by Hot Line Construction with support from W.A. Rasich Construction and SCE crews.
2. Distribution work associated with the Dental and Intern Circuits included potholing for existing utilities, trenching for underground alignment, installation of underground vaults, and installation of underground conduit (see Photo 1).
3. Work associated with the Timoteo Relocation subtransmission improvements was limited to concrete restoration within a private alleyway just east of Mountain View Boulevard.
4. Work associated with the Tennessee Relocation subtransmission improvements included restoration of new foundations.
5. Construction activities associated with the Banning Connection included the installation of underground and overhead fiber along Smith Creek (see Photo 2).
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. Work associated with the Juanita Reconductor distribution improvements has been completed.
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.
13. 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, 10 of 12 12-kV underground vaults have been installed, and 2920 feet of 7430 feet of 12-kV duct bank has been installed.
 - For subtransmission components, 111 of 115 66-kV LWTSPs have been erected, 17 of 19 TSPs have been erected, and 18,583 feet of 27,140 feet of 66-kV wire has been installed.

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. 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.
3. 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.
4. There were no reportable (> 1 gallon) or non-reportable (< 1 gallon) spills associated with NTP #3 identified during the monitoring period.
5. The 2018 nesting season has ended. If required, removal of inactive non-special-status bird species' nests is being implemented per the requirements of the 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.

To date, pre-compliance materials associated with NTP #4, Segments 1 through 4, have been submitted and approved. Pre-construction compliance materials for Segment 5 were submitted on September 13,

2018, and authorization to start construction was issued by CPUC on September 26. Pre-construction compliance materials for Segment 6 are scheduled for submittal late-2018/early-2019.

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 towers.
2. No construction activities associated with Segments 1 or 2 occurred during the monitoring period.
3. Work associated with Segment 3 included access road maintenance between Sites 3X35 and 3X42. BMP installation occurred at Sites 3X08 and 3X10. Vegetation removal was conducted at Site 3X46. Grading activities occurred at Sites 3X06-3X07, 3X41, 3X46, 3X50, DR-3X46-N, DR-3X60-SE, DR-3-3X64-1, DR-3-SE-3X65, and SF305 (see Photo 3). No access road improvements were conducted.
4. Work associated with Segment 4 included access road maintenance between Palmer Avenue and San Timoteo Canyon Road. Foundation drilling was conducted at Sites 4X55, 4X56, 4X57, 4N58, 4N59, 4S60, 4N60, 4N63, and 4N64. Concrete foundation pouring occurred at Sites 4X55, 4X56, 4X57, 4N58, 4N59, 4S60, 4N60, 4N63, and 4N64 (see Photo 4). Tower assembly and erection was performed at Sites 4X55, 4X56, 4N58, 4N59, 4N60, 4N61, 4N62, 4N63, SF411, and SF412 (see Photo 5). No access road improvements were conducted.
5. To date, no construction activities associated with Segments 5 or 6 have occurred.
6. As of the closing of this monitoring period, construction progress associated with NTP #4 is as follows:
 - Grading for foundation installation has been completed at 77 sites.
 - Foundations are completed for 13 of 386 lattice towers and 2 of 83 TSPs.
 - One of 386 lattice towers has been erected.
 - Six of 51 TSPs and 4 of 58 ESPs for temporary shoofly locations has been erected.
7. The first proposed outage (Project Move 2) is scheduled to begin October 1, 2018. Final CAISO approval has been issued for this outage.

Environmental Compliance

1. There were no SCE self-reported or CPUC incidents documented for construction activities associated with NTP #4 throughout the monitoring period.
2. On September 25, the CPUC EM observed assembly crews working at Site 4N61 without all fire abatement requirements outlined in the Project Fire Management Plan. The Plan requires that, if portable water tanks are to be used for fire abatement, they must be located at the immediate work location. When notified, the crew immediately retrieved the portable water tank that was staged at Site 4N60 and properly staged it at Site 4N61.
3. Documentation of FAA Determinations for Segment 4 was provided on September 17. Additional information was provided on September 26 and is currently under review.
4. There was one SWPPP maintenance item and no corrective actions associated with NTP #4 recorded during the monitoring period. The maintenance item was identified on September 29 and consisted of loose silt fencing at Site 4X47. According to SCE's SWPPP QSP, the item was resolved on October 1, within the 72-hour deadline. To date, there are no open SWPPP maintenance items or corrective actions associated with NTP #4.

5. There were no reportable (> 1 gallon) or non-reportable (<1 gallon) spills associated with NTP #4 identified during the monitoring period.
6. The 2018 nesting season has ended. If required, removal of inactive non-special-status bird species' nests is being implemented per the requirements of the NBMP. There were 12 such nests removed from work areas associated with NTP #4 recorded during the monitoring period.
7. Special-status species observed or identified at locations associated with NTP #4 during the monitoring period included loggerhead shrike, ferruginous hawk, and golden eagle.

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 10/05/18)

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 #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.

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/C asco–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
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

TEWS / MPC	Date Requested	Date Issued	Phase	Description
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	Pending	Project-wide/ Segments 3&4	Use of 6 water sources, installation of water tank, use of access road, and expansion of WSS

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 10/05/18)

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.
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
Level 1 Incident	Fire Management Plan	9-18-18	Segment 4	Lack of adequate fire abatement equipment
Level 1 Incident	Fire Management Plan	9-18-18	Segment 4	Lack of adequate fire abatement equipment
Level 1 Incident	Fire Management Plan	9-20-18	Segment 4	Lack of adequate fire abatement equipment

PROJECT PHOTOGRAPHS



Photo 1 – Trenching and conduit installation along Mission Avenue for the Dental/Intern Circuits (September 26, 2018).



Photo 2 – SCE crews installing wire along Smith Creek for the Banning Connection (September 26, 2018).



Photo 3 – Grading at Site 3X06-3X07, Segment 3 (September 25, 2018).



Photo 4 – Pouring foundation concrete at Site 4N58, Segment 4 (September 25, 2018).



Photo 5 – Setting TSP at SF412 along Segment 4 (September 26, 2018).