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5020 Chesebro Road, Suite 200, Agoura Hills, CA 91301  
Tel. 818-597-3407, Fax 818-597-8001, [www.aspeneg.com](http://www.aspeneg.com)

**PROJECT MEMORANDUM  
SCE DPV2 TRANSMISSION PROJECT**

**To:** Billie Blanchard, Project Manager, CPUC  
**From:** Vida Strong, Aspen Project Manager  
**Date:** April 11, 2013  
**Subject:** Weekly Report 87, March 11 to March 17, 2013

## **INTRODUCTION**

This report provides a summary of the construction and compliance activities associated with the SCE DPV2 Transmission Line and Red Bluff Substation Projects. This report is organized as follows:

- Transmission Line Construction
- Substation Construction and Upgrades
- Construction Yards and Other Workspaces

A summary of the Notices to Proceed (NTPs) with construction and Variance Request activity are also provided (see Tables 1 and 2, respectively, near the end of this report). Additionally, a summary of Temporary Extra Workspace (TEWS) and non-compliance activities are provided in Tables 3 and 4, respectively. Table 5 provides a summary of transmission line construction progress to date.

**CPUC/BLM/Aspen Environmental Monitors (EM):** Ryann Loomis, Rosina Goodman, Jamie Miner, Carla Wakeman, and Scott Debauche.

## **TRANSMISSION LINE CONSTRUCTION**

### **Summary of Activity**

1. Colorado River Substation (CRS) to Red Bluff Substation
  - Foundation close-out activities were conducted at Tower 2639.
  - Site stabilization activities, including BMP removal, recontouring, and desert pavement/topsoil replacement were conducted at Towers 2531, 2553, 2565, 2573, and 2576, and Splice Sites 46, 47, 48, and 50, Fiber Optic Site 61, and Wire Sites 61, 65, and 66.
2. Red Bluff Substation to Devers Substation
  - Maintenance of Coachella Valley fringe-toed lizard fencing occurred at Towers 2012, 2013, 2136, 2201, 2207, and 2208, and Guard Structures GS53B and GS53C.
  - Maintenance road grading occurred on the right-of-way (ROW) between Towers 2112 through 2115, 2118 through 2123, 2130 through 2136, 2200 through 2208, and 2239 through 2442.
  - Wire stringing activities were conducted between Towers 2229 through 2250, and at associated wire stringing locations.
  - Foundation close-out activities were conducted at Towers 2204, 2211, 2215, 2221, and 2225.
  - Site stabilization activities, including BMP removal, recontouring, and desert pavement/topsoil replacement were conducted at Towers 2112 through 2128, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2400, 2401, 2405, 2406, 2407, 2408, and 2432, Guard Structures GS26A and GS26B, Fiber Optic Site 61, Splice Site 34, 36, and 64, Wire Site 45, 47, and 49, and Helicopter Landing Zone (HLZ) H4 (see Figure 1).



### 3. Devers Substation to Valley Substation

#### Non-USFS Land

- Maintenance of BMPs occurred at Towers 1018 thru 1023, 1109, 1117, 1120, 1122, 1127, 1129, 1131, 1132, 1141, 1146, 1149, 1153, and 1155, and Wire Site 10.
- Grading activities occurred at Tower 1131.
- Micropile foundation activities occurred at Towers 1049, 1103, 1108, 1109, and 1112 (see Figure 2).
- Tower assembly and/or steel deliveries occurred at Towers 1002, 1031 thru 1036, 1050, 1065, 1066, 1068, 1069, 1071, 1072, 1074, 1075, 1076, 1079, 1080, 1091, 1099, 1105, 1106, 1111, 1112, 1113, 1119, 1121, 1122, 1124, 1125, 1126, 1128, 1142, 1143, 1144, and 1145, Wire Site 10, and within HLZs H1A, H1X, H2, H7, and H9 (see Figure 3).
- Tower foundation close-out activities occurred at Towers 1024 thru 1028, 1055, 1061, 1062, 1064, 1067, 1123, 1127, 1131, 1132, 1138, 1139, 1142, 1148, and 1149.
- Guard pole installation occurred at Guard Structures GS10A, 10B, and 10C.

#### USFS Land

- Micropile site preparation occurred at Tower 1044.
- Site clearing for permanent landing pads occurred at Tower 1044, 1047, and 1048.
- Micropile foundation activities occurred at Towers 1043, 1044, 1046, and 1048.
- Tower assembly occurred at Towers 1037 thru 1043, 1045, 1047, and 1048.

#### **Environmental Compliance**

- Per the requirements of the Paleontological Monitoring and Treatment Plan, approved Paleontological Monitors were present during grading and foundation drilling activities where required throughout the subject period.
- The CPUC EMs confirmed that approved desert tortoise Authorized Biologists were available at all applicable sites.
- The CPUC EMs confirmed Authorized Coachella Valley fringe-toed lizard (CVFTL) Monitors and handlers were onsite during construction activities at applicable sites.
- The CPUC EMs confirmed permitted California gnatcatcher (CAGN) Biologists were onsite during construction activities at applicable sites.
- On March 13, SCE submitted the 2460-2 FAA Supplemental Notices for the required FAA lighting at the Devers Rack to Tower 1000.
- There were two incidents where helicopter construction operations encroached into Environmentally Sensitive Area (ESA) nest buffers during the subject weekly reporting period. Project Memorandum #13 was issued on March 21 for these encroachments (see Table 4).
- There were three incidents involving fugitive dust during the subject time period.
  - On March 11, the SCE General Monitor observed dust plumes generated during the first Skycrane helicopter tower assembly set at Tower 1032 and at Wire Site 10. The observations were made from Wire Site 10 (near Tower 1031). No use of dust suppression was observed at this site prior to this activity. However, a Bambi bucket was utilized for dust suppression on subsequent Skycrane visits to Tower 1032. No additional dust plumes were observed when the Skycrane returned to Tower 1032. Several attempts to lift tower sections from Wire Site 10 were made by the Skycrane with conditions being too dusty despite continuous watering of the site. By the end of the day the fugitive dust was significantly reduced.

- On March 12, onsite observation identified fugitive dust emissions being generated due to air crane activity at HLZ H2. The source of fugitive dust emissions appeared to be from the stub road located west of HLZ H2, since the stub road was not adequately watered prior to air crane activity.
- On March 13, onsite observation identified fugitive dust emissions less than 100 feet in length being generated from helicopter activity at HLZ H7. The soil within the disturbance area was observed dry and unstable prior to observed helicopter activity.
- There were five incidents of crews working at sites prior to those sites being swept by a Biological Monitor.
  - Three of the incidents recorded work occurring prior to Biological Monitor site sweeps on March 11 during scheduled Skycrane activity at Towers 1034, 1040, and 1042. For each incident a helicopter dropped water on the site either before the sweep occurred or during the sweep in one instance. The CPUC EMs inquired with SCE on how they will prevent this from occurring during future Skycrane visits. SCE stated they will be improving communications between the Biological Monitors and the helicopter flight coordinators to prevent helicopters from going to sites until the biological sweeps have occurred.
  - On March 12, when the Biological Monitor arrived at Tower 1081 to conduct their initial site sweep they observed a tower assembly crew was present and a crane was already set up within the disturbance area. The disturbance area had not been swept by a Biological Monitor prior to equipment mobilization. The Biological Monitor conducted a sweep of the site upon arrival. No biological resources were impacted by the equipment mobilization.
  - On March 14, the CPUC EMs visited Tower 1002 during nest deterrent installation and discovered the crew installed deterrents in Tower 1001 without a Monitor present and without the tower being surveyed for nesting bird behavior. The CPUC LEM notified the SCE Environmental Coordinator (EC) of the observation.
- There were four incidents of crews working outside of the disturbance area boundaries.
  - On March 12, a truck mobilizing crane equipment was observed by a Biological Monitor backing up to Tower 1081 and backed off the road crushing approximately 5% of existing vegetation in an impact area of 10 square feet of non-critical or modeled habitat for any listed species. The vegetation crushed included yerba santa, but the root systems were not affected.
  - On March 13, the OPGW crew conducted a hardline disconnect of static wire between Towers 2240 and 2241 outside of the approved work area. This hardline disconnect activity was conducted outside of the approved work area and consists of a worker crossing the approved disturbance area boundary to disconnect the pull line from the product line and hand reel the tail of the product back to the tower. An incident report was completed. Since the activity was known prior to the operation a biological survey of the area was conducted. No sensitive species were observed during the survey. The habitat was blow sand dunes at the eastern base of the Indio Hills. There were no observed environmental impact other than footprints and minor soil disturbance.
  - On March 13, the OPGW crew conducted sleeving of static wire between Towers 2230 and 2230AX outside of the approved work area. Often the static wire on reels is not long enough for the entire pull length and it is necessary to join the ends. This was done by hydraulically compressing a metal sleeve onto the two ends of the static wire by using a small press that is driven by a small generator. Two crew members operated the generator and press, and two other crew members held the static wire close to the ground. The crew walked to the site and carried the equipment by hand. Vehicles remained on the approved access road. The SCE Biological Monitor was informed that the sleeving activity was planned and advised the General Foreman that it would result in a Level 1 incident report. The Biological Monitor also conducted a survey of the sleeving site before the crew arrived and found no sensitive species. A post-construction survey was also conducted and no habitat impact was noted other than footprints and soil disturbance. The site is located in the sparsely vegetated southern base of the Indio Hills (see Figure 4).

- On March 14, the OPGW crew connected sock line to the helicopter between Towers 2251 and 2252 outside of the approved work area. This sock line connect activity was conducted outside of the approved work area and consisted of a lineman crossing the approved disturbance area boundary to connect the sock line to helicopter's long line to begin stringing sock line. An incident report was completed. Since the activity was known prior to the operation a biological survey of the area was conducted. No sensitive species were observed during the survey. The habitat is predominately desert pavement in critical desert tortoise habitat. There were no observed environmental impacts and no soil disturbance. Since this incident, SCE has stated that the contractor will no longer be conducting work outside the approved disturbance area limits. If work is needed to occur outside the approved work areas, a variance will be submitted for CPUC/BLM approval prior to the work.
- On March 14, a Coachella Valley milk vetch (CVMV) Monitor visited Tower 1028 and observed that a clearly marked Environmentally Sensitive Area (ESA) for CVMV was run over during a grading operation on the site (see Figure 5). The Biological Monitor had last visited the site at 2:45pm the previous day. Between these two times, it was discovered a foundation close-out crew had graded around the tower and piled up soil around the tower legs. In the process, the CVMV ESA was run into and partially graded. The area within the ESA that was graded contained a bent pin flag which had marked a CVMV plant the day before. No trace of the plant could be found upon inspection. SCE reported this incident to the resource agencies on March 15. To date, SCE has not provided the CPUC or the resource agencies their intended remedial actions.
- On March 15, at approximately 0835, equipment failure at Wire Site 31/Pull Site 32 (between Towers 2259 and 2260) caused one of two B-phase conductor wires to break free, injuring one lineman, and coming into contact with the ground. After the SCE Biological Monitors conducted a clearance sweep of the immediate area, ground crews took action by mobilizing one bulldozer on an existing off-road trail (selected by the Biologists to minimize impacts) located in a large wash immediately west of the wire/pull site. Crews were able to temporarily secure the wire, but advised all on-site personnel to avoid the area until further action could be taken on Monday, March 18<sup>th</sup> (see Figure 6 and 7).

No Non-Compliance Reports or Project Memoranda were issued during the subject period for transmission line activities. Non-Compliance activities for the project to date are summarized in Table 4.

**Agency Representatives during Construction (Other than CPUC EMs):**

None.

**SUBSTATION CONSTRUCTION AND UPGRADES**

**Summary of Activity**

1. Colorado River Substation (CRS) (BLM Lands) – Activities that occurred at CRS during the subject period included foundation excavation, construction of the MEER building and switchracks, installation of conductor cable and other conduit, trenching for grounding and backfilling of trenches, storm drain installation, and steel erection. Activities associated with the CRS access road improvements included key trenching and installation of riprap and culverts.
2. Southeast (SE) Telecomm Line (BLM and Private Lands) – No construction activities occurred during the subject period.
3. Desert Center Telecomm Site (BLM and Private Lands) – Activities that occurred during the subject period included civil grading, retaining wall construction, distribution pole and line installation, and driveway access construction.
4. Red Bluff Substation (BLM Lands) – Activities that were conducted at the Red Bluff site included foundation excavation; construction of the MEER building, transformer pads, and switchracks; installation of conductor cable and other conduit; trenching for grounding; steel erection; and telecomm splicing.

5. Chuckwalla Telecomm Site (BLM Lands) – Activities that occurred during the subject period were limited to MEER building electrical work.
6. Series Capacitor (BLM Lands) – Activities that were conducted during the subject period included construction associated with the capacitor and MEER building, foundation excavation, security equipment installation, and grounding well construction.
7. Mirage Substation Loop-ins (Private Lands) – No construction activities occurred during the subject time period.
8. Devers Substation (Private Lands) – Activities that were conducted for the Devers Substation expansion and upgrades included work associated with the extension of the 500 kV switchrack 2 positions, MEER building electrical improvements, and telecommunications conduit run trenching and installation to connect to the Tower 1000X (see Figure 8).
9. Valley Substation (Private Lands) – No construction activities occurred during the subject period.

### **Environmental Compliance**

- SCE General, Biological, and Archeological Monitors were onsite, as appropriate, throughout all construction activities associated with the above listed sites.
- There were two reported mortalities of Mojave fringed-toed lizards along the CRS access road during the subject period.
- On March 14, an SCE Biological Monitor observed a white pick-up truck driving at a high rate of speed through the 15 mph zone on the CRS access road. The vehicle was stopped on the South entrance ramp and the driver was reminded of speed limits. He admitted that he didn't slow down at the 15 mph zone and stated that he had the full WEAP training. The driver was informed of the presence of Mojave fringe-toed lizards (MFTL) in the area.
- On March 16, the SCE (Field Contact Representative) FCR visited the Valley Substation and discovered a crew started work on the electrical conduits from Tower 1156 and went about 100 feet going east along the northern fence of the Valley Substation without a Monitor present on March 14.
- On March 16, the SCE Biological Monitor at CRS discovered food trash in the back of a Wilson Construction truck at the end of the day. Construction was notified and the food trash was properly disposed of. Mitigation measures clearly state that food trash must be disposed of in sealed containers with lids that latch. Proper disposal of food trash was discussed regularly at tailboard.
- On March 16, A Union Engineering water truck was left on site at CRS with a leak that left a growing pool of standing water. Substation personnel were notified, but were unable to mobilize personnel to shut off the leak. All construction personnel had already left the site by the time the leak was discovered.

No Non-Compliance Reports or Project Memoranda were issued during the subject period for substation construction and upgrade activities. Non-Compliance activities for the project to date are summarized in Table 4.

### **Agency Representatives during Construction (Other than CPUC EMs):**

None.

## **CONSTRUCTION YARDS AND OTHER WORKSPACES**

### **Summary of Activity:**

Non-Federal Lands:

Blythe Yard (Material Yard/Contractor Show-Up Yard) – There were no construction activities conducted during the subject period. The process of closing out this yard is underway.

Desert Center 1 Yard (Material Yard) – There were no construction activities conducted during the subject period. The process of closing out this yard is underway.

Desert Center 2 Yard (Material Yard/Contractor Show-Up Yard) – There were no construction activities conducted during the subject period. The process of closing out this yard is underway.

Chiriaco Summit Yard (Material Yard) – Activities are limited to minor maintenance, implementation of BMPs, and material deliveries.

Indio Yard (Material Yard) – Activities are limited to minor maintenance, implementation of BMPs, and material deliveries.

Indio 2 Yard (Material Yard) – Activities are limited to minor maintenance, implementation of BMPs, and material deliveries.

Devers Yard (Material Yard) – Activities are limited to minor maintenance, implementation of BMPs, and material deliveries.

Devers 2 Yard (Contractor Show-Up Yard) – Activities are limited to minor maintenance, implementation of BMPs, temporary storage of construction equipment and materials, and worker vehicle parking.

Beaumont Yard (Material Yard) – Activities are limited to minor maintenance, implementation of BMPs, and material deliveries.

Beaumont 2 Yard (Contractor Show-Up Yard) – Activities are limited to minor maintenance, implementation of BMPs, temporary storage of construction equipment and materials, and worker vehicle parking.

Menifee Yard (Contractor Show-Up Yard) – Activities are limited to minor maintenance, implementation of BMPs, temporary storage of construction equipment and materials, and worker vehicle parking.

Perris Yard (Contractor Show-Up Yard) – Activities are limited to minor maintenance, implementation of BMPs, temporary storage of construction equipment and materials, and worker vehicle parking.

### **Environmental Compliance:**

- SCE Biological Monitors conducted biological sweeps at all construction yards throughout the subject period.
- There was one incident associated with improper disposal of trash (including food scraps) reported at the Indio 1 (Kenny) Yard during the subject period.
- The SCE Monitors reported target weed species at Blythe, Desert Center 1, Menifee, Perris, Beaumont 1, and Beaumont 2 yards during the subject period.

No Non-Compliance Reports or Project Memoranda were issued during the subject period for Construction yard activities. Non-Compliance activities for the project to date are summarized in Table 4.

### **Agency Representatives during Construction (Other than CPUC EMs):**

None.

## CPUC/BLM NOTICES TO PROCEED (NTPS)

Table 1 summarizes the CPUC/BLM Notices to Proceed (NTPs) for the DPV2 and Red Bluff Projects, to date.

**TABLE 1**  
**NTPS**  
(Updated 4/11/13)

NTP #/ Permit	Date Requested	Date Issued	Segment	Description
<b>CPUC NTPs</b>				
NTP #1	04/28/11	06/23/11	Yards	Authorization to proceed with the development of the Devers, Desert Center 1, Desert Center 2, Summit, Blythe, Perris, Beaumont, and Menifee Construction Yards.
NTP #2	08/05/11	09/09/11	T/L	Installation of exclusionary fencing, Devers to Blythe. No cultural resources affected. Bio pending.
NTP #3	08/26/11	09/19/11	Yards	Construction of Beaumont Construction Yard #2.
NTP #4	09/09/11	09/20/11	Yards	Construction of Indio Construction Yard.
NTP #5	09/16/11	10/11/11	Red Bluff Distribution Line	Upgrades to a segment of the existing SCE 12 kV circuit overhead distribution line to supply light and power to the Red Bluff Substation, non-BLM lands.
NTP #6	09/16/11	10/17/11	Substation	Authorization to proceed with improvements to the new Colorado River Substation on private lands, including extension of the existing 33 kV distribution line, installation of a new telecommunication line, and access road improvements.
NTP #7	09/09/11	12/01/11	T/L – DPV1	Construction activities associated with a minor relocation of the Devers-Valley No. 1 Line (DV1).
NTP #8	10/08/11	12/02/11	T/L – CRS to Red Bluff	Construction of the DPV2 transmission line between Red Bluff and Colorado River Substations and replacement of existing DPV1 overhead ground wire; non-BLM lands.
NTP #9	10/08/11	12/02/11	T/L – Devers to Red Bluff	Construction of the DPV2 transmission line between the existing Devers Substation and the new Red Bluff Substation; non-BLM lands.
NTP #10	10/08/11	12/02/11	T/L – Devers to Valley	Construction of the DPV2 transmission line between existing Devers and Valley Substations; not including San Bernardino National Forest lands.
NTP #11	11/08/11	12/10/11	Yards	Construction of Devers 2 and Indio 2 Construction Yards.
NTP #12	01/20/12	02/03/12	Yards	Construction of Desert Center 3 Construction Yard.
NTP #13	04/12/12	05/09/11	Substation	Devers Substation upgrades
NTP #14	06/13/12	06/20/12	Substation	Valley Substation upgrades
—	06/19/12	Retracted	T/L- Devers to Valley	H10- Helicopter Landing Zone
NTP #15	07/16/12	11/15/12	Substation	Colorado River Substation to Blythe South East Telecommunication Route
NTP #16	11/07/12	12/03/12	Substation	Mirage loop in.

NTP #/ Permit	Date Requested	Date Issued	Segment	Description
<b>BLM NTPs</b>				
BLM NTP #1	08/26/11	09/19/11	DPV2 Substation, T/L	Authorization to proceed with construction of the DPV2 Transmission Line, Colorado River Substation, and associated project components on BLM lands.
BLM NTP #2	08/26/11	09/19/11	Substation	Construction of Red Bluff Substation and associated project components, BLM lands.

## VARIANCE & TEMPORARY EXTRA WORKSPACE REQUESTS

Table 2 presents Variance Requests submitted to CPUC, BLM and/or USFS for review and approval. Table 3 presents CPUC Temporary Extra Workspace (TEWS) and BLM Level 1 requests that are submitted to the CPUC EMs for review and approval. Variance Requests and CPUC TEWS/BLM Level 1/2A requests submitted to date are summarized in Tables 2 and 3, respectively.

**TABLE 2**  
**VARIANCE REQUESTS**  
(Updated 4/11/13)

Variance Request	Date Requested	Date Issued	Segment	Description
<b>Private Lands (CPUC Jurisdiction)</b>				
VR #1	05/06/11	05/24/11	Devers-Valley	Construction of traditional lattice towers instead of "Tetra" towers at two locations (Structures #1139 and #1140)
VR #2	04/21/11	05/26/11	All	Revisions to Mitigation Measure B-7d pertaining to seasonal restrictions for Coachella Valley fringe-toed lizard and flat-tailed horned lizard to support consistency with conditions provided in the Biological Opinion.
VR #3	07/12/11	07/18/11	DC 1 & DC 2 Yards	Utilize offsite well location and installation of 12,000-gallon water tank for filling trucks.
VR #4	07/06/11	07/21/11	Menifee Yard	Expansion of Menifee Construction Yard, which would include approximately 5 acres of additional disturbance within the western portion of the parcel, for material storage and other activities.
VR #5	04/22/11	07/28/11	CRS Devers and Valley Substations, Series Capacitor Site	Modification of APM A-7 regarding carpooling for construction at substations.
VR #6	07/07/11	08/01/11	Menifee, Beaumont, Perris Yards	Request to remove Mitigation Measures B-13a and B-13b, and to modify B-1a, B-1a (revised), and B-7e pertaining to Western Riverside County MSHCP compliance.
VR #7	08/11/11	08/22/11	Perris, Beaumont, Menifee, Blythe Yards	Request to utilize offsite water hydrants at Perris, Beaumont, Menifee, and Blythe Construction Yards.

Variance Request	Date Requested	Date Issued	Segment	Description
VR #8	08/26/11	08/27/11	Beaumont Yard	Request to install seeded jute netting along the property frontage at Beaumont Construction Yard.
VR #9	08/24/11	09/01/11	DC 2 Yard	Request for installation of temporary power poles outside of Desert Center 2 Construction Yard.
VR #10	08/26/11	09/01/11	Devers & Summit Yards	Utilize offsite water locations needed for dust suppression at Devers and Summit Construction Yards.
—	09/21/11	Retracted	Perris Yard	Request for additional workspace involving vegetation clearing, installation of BMPs, and temporary driveway installation at Perris Construction Yard.
VR #11	09/26/11	09/28/11	T/L	Two water sources for exclusionary fencing work.
VR #12	10/13/11	10/18/11	T/L	Request for parking/temporary staging of vehicles along existing access road within the Coachella Valley Preserve during exclusionary fencing activities.
VR #13	10/26/11	11/10/11	Devers Yard	Request for temporary power supply to provide power to construction trailer at the Devers #1 Construction Yard.
VR #14	11/10/11	11/28/11	Substation	Request for increased well pumping to support civil work, including access road improvements, at Colorado River Substation.
VR #15	12/13/11	12/14/11	Summit Yard	Request for temporary power outside yard boundaries required to power office trailers.
VR #15 Mod	04/25/12	05/02/12	Summit Yard	Request for temporary power modification.
VR #16	12/22/11	01/04/12	Project-wide	Request to approve alternate/extended work hours project-wide.
VR #17	01/04/12	01/09/12	Project-wide	Request to utilize existing approved construction yard and/or exclusionary fencing water sources for transmission line construction needs.
VR #18	10/25/12 10/26/12	Denied 01/13/12	Substation	Request to formalize changes to the Red Bluff MMCRP Mitigation Measure BIO-4 and Applicant Measure BIO-5.
VR #19	01/06/12	01/18/12	T/L	Request to allow the usage of helicopter landing zone H9-DV as a replacement for H8-DV.
VR #20	01/13/12	01/19/12	T/L	Request for the use of offsite water hydrants located in the Cabazon area for dust suppression.
VR#21	01/20/12	02/02/12	T/L	Request for the use of offsite water hydrants located in the Lake Tamarisk area for dust suppression
VR #21 Mod	03/16/12	03/21/12	T/L	Modification to VR #21. Request installation of two driveways and an underground water line adjacent to the approved stand tank locations at the Lake Tamarisk Resort water source.

Variance Request	Date Requested	Date Issued	Segment	Description
VR #21 Mod	09/24/12	10/03/12	T/L	Request for a modification to Variance #21 for the expansion of the egress at the Lake Tamarisk water source.
VR #22	01/25/12	02/02/12	T/L	Request to install 10,000-gallon standing water tanks at three locations.
VR #23	01/27/12	02/21/12	T/L	Request to modify NTP #10 and MM AQ-1g for additional t-line helicopter construction.
VR #24	02/08/12	02/21/12	T/L	Request for approval to purchase MWD water credits in lieu of Colorado River water credits due to the unavailability of water allotments within the Colorado River Basin.
VR #25	02/10/12	02/28/12	T/L	Request for use of existing DPV1 access roads and spur/stub roads for parking and staging of vehicles and equipment.
VR #26	03/09/12	03/16/12	Substation	Request for the use of offsite water source located on a private date farm.
VR #27	03/09/12	03/20/12	Substation	Request for the use of offsite water source located off Corn Springs Road.
VR #28	03/22/12	03/30/12	T/L	DPV2 Gas Line Road.
VR #29	03/22/12	04/04/12	T/L	DVP1 minor relocation of outage pull sites.
VR #30	03/23/12	04/10/12	Substation	CRS pull sites.
VR #31	04/24/12	05/05/12	T/L	Helicopter landing zone H2 disturbance area revision
VR #32	03/16/12	05/08/12	T/L	HLS H7-DV boundary modification.
VR #33	04/26/12	05/17/12	T/L	Additional water hydrant locations
VR #35	05/11/12	05/15/12	Substation	Request to eliminate construction screening of the Devers Substation Expansion area.
VR #36	05/17/12	05/29/12	T/L	Three additional water stand tanks from Devers to Red Bluff
VR #37	06/20/12	06/30/12	T/L	Request a disturbance area shift for Tower 1013 due to engineering changes.
VR #38	08/09/12 Revised	08/21/12	T/L	Request for additional water source locations in the Thousand Palms area.
VR #39	08/14/12	09/05/12	T/L	Request for additional access road use near Towers 2103, 2112, and 2260.
VR #40	08/22/12	09/11/12	T/L	Request for the use of an existing spur road to Tower 2242.
VR #41	09/10/12	09/12/12	T/L	Request for the use of additional access routes to Towers 1118-1122 and HLZ H9. These roads were previously approved through the TEWS process.
—	04/12/12	Retracted	T/L	Preconstruction survey extension request from 14 days to 30 days. Petition for Modification required.
—	08/09/12 revised	Retracted	T/L	APM A-6 - Eliminate tarping on bottom dump trucks. Petition for Modification required.

Variance Request	Date Requested	Date Issued	Segment	Description
VR #42	08/14/12	09/21/12	T/L	Request for a road to be used as a helicopter picking site near Tower 1031.
VR #42 Mod	02/28/13	03/05/13	T/L	Request to modify Variance 42 to allow equipment and material to be staged on the access road near Tower 1031 for helicopter picks.
—	08/14/12	Retracted	T/L	Request that Helicopter Landing Zones (HLZs) on Devers to Valley be exempt from construction screening MM V-1a.
VR #43	09/18/12 (revised)	09/21/12	T/L	Request revisions to pull sites from Devers to Red Bluff.
VR #44	09/24/12	09/28/12	T/L	Request a stub road revision at Tower 1147.
VR #45	09/25/12	10/04/12	T/L	Request for the use of additional access roads on the Devers to Valley section.
VR #46	09/20/12	10/10/12	T/L	Helicopter Picking Locations for Sites 1112 and 1108.
VR #47	10/09/12 (revised)	10/18/12	T/L	Relocation of guard structures and an addition of an access road in the Devers to Red Bluff section.
VR #48	10/02/12	10/18/12	T/L	Request for an additional water source in the Devers to Valley section.
VR #49	11/02/12	11/07/12	T/L	Request additional disturbance area at Tower 2000X.
VR #50	10/19/12	11/11/12	T/L	Request for the expansion of splice site 57 (near Tower 2557) and expansion and shift of splice site 64 (near Tower 2614).
VR # 51	10/24/12	11/15/12	T/L	Request to convert two conventional tower sites to helicopter sites from Devers to Red Bluff. In addition, SCE is requesting to add temporary helicopter platforms to access three sites.
VR #52	11/13/12 (revised)	11/15/12	T/L	Request to revise the disturbance area for Fiber Optic Site 59.
VR #53	10/30/12	11/20/12	Substation	Request access road improvements along the CRS access road.
VR #54	11/27/12	12/07/12	T/L	Request to revise pull site on Devers to Valley (pull Package 1).
VR #55	11/28/12	12/10/12	T/L	Request to revise pull sites from Devers to Red Buff (Pull Site Revision III-B).
VR #56	12/17/12	01/07/13	T/L	Request for an additional HLZ site near Tower 1051.
VR#57	01/03/13 and 01/07/13	01/10/13	T/L	Request to shift guard structures from Red Bluff to Devers (Priority #1). Request to shift guard structures from Red Bluff to Devers (Minor Modification).
VR #58	01/04/13	01/15/13	T/L	Request to shift pull sites from Red Bluff to Devers (Pull Site Priority #2).
VR #59	01/08/13	01/15/13	Substation	Request for a temporary work area for the Mirage Substation Telecommunication Loop-In.
VR #60	01/18/13	01/22/13	Substation	Request for an additional disturbance area for CRS SE Telecom Route Anchor Rod Installation.

Variance Request	Date Requested	Date Issued	Segment	Description
VR #61	01/18/13	01/23/13	Substation	Request to use Gravel Pit Road to access pole installation locations east of TL tower M123-T1 for the SE Telecom Route.
VR #62	01/30/13	02/07/13	T/L	Request to shift Devers to Valley Pull 102 for Towers 1002-1010.
VR #63	01/30/13	02/07/13	T/L	Request to shift Devers to Valley Pulls 103 for Towers 1010-1019.
VR #64	01/29/13	02/12/13	T/L	Request to shift Devers to Valley Pulls 104-105 for Towers 1019-1031.
VR #65	01/31/13	02/12/13	T/L	Request to shift Devers to Valley Pulls 101 for Towers 1000-1002.
VR #65 MOD	03/22/13	03/25/13	T/L	Request to modify Guard Structure Sites GS3 and GS4 previously approved in Variance #65.
VR #66	02/14/13 Revised on 02/25/13	02/28/13	T/L	Request to expand Tower 1077 disturbance area.
VR #67	02/25/13	02/28/13	T/L	Suppress fugitive dust outside of HLZs H2 and H2A disturbance areas, including required access roads.
VR #68	02/13/13	03/07/13	T/L	Request to shift Devers to Valley Pulls 109 for Towers 1083-1090.
VR #69	03/07/13	03/08/13	T/L	Request to use Gasline Road to Tower 2249 to avoid an active nest.
VR #69 MOD	03/26/13	04/01/13	T/L	Request to modify Variance #69 by adding an access road between the Gasline Road and the ROW road near Tower 2249.
VR #70	03/05/13	03/13/13	Substation	Request to use access roads by Devers Substation.
VR #71	03/08/13	03/14/13	T/L	Request to modify the turning radius at HLZ H7.
VR #72	03/13/13	03/18/13	T/L	Request to shift Devers to Valley Pulls 115 for Towers 1132 to 1143.
	03/11/13	Under Review	T/L	Request for the following yards (Beaumont 1, Perris, Devers, Indio 1 and Desert Center 2) to stay as permanent construction yards.
VR #73	03/13/13	03/24/13	T/L	Request to shift Devers to Valley Pulls 110-113 for Towers 1090 to 1122.
VR #74	03/22/13	03/29/13	T/L	Request to shift Devers to Valley Pulls 116-117 for Towers 1143-1157.
VR #75	03/22/13	04/01/13	T/L	Request to shift Devers to Valley Pulls 107-108 for Towers 1065 thru 1082.
VR #76	03/28/13	04/04/13	T/L	Request to increase Wire Site 42 near Tower 1122.
VR #77	04/04/04	04/10/13	T/L	Request to modify Guard Structure Sites GS22A and GS22B on Devers to Valley.
VR #78	04/05/13	04/10/13	T/L	Request to relocate the approved access road to DV Fiber Option Optional Setup 34 to within SCE's right-of-way along the Devers-Valley segment.

Variance Request	Date Requested	Date Issued	Segment	Description
<b>BLM</b>				
BLM #1	10/18/11	10/27/11	Substation	Request to install a temporary guard structure along the entrance of the existing transmission line access road for Colorado River Substation.
BLM #2	10/19/11	10/27/11	Substation	Request to approve 24-hour drilling operations at the CRS site.
BLM #3	01/24/12	02/28/12	Red Bluff	Rock Crushing
BLM #4	03/16/12	03/30/12	Substation	Red Bluff Loop-in pull site modifications.
BLM #5	03/22/12	05/18/12	T/L	DPV2 Gas Line Road.
BLM #6	03/23/12	04/10/12	Substation	CRS pull sites.
BLM #7	03/28/12	04/11/12	Substation	Request for HLZ (helicopter landing zone) at Red Bluff Loop-in Tower site RB1-2W.
BLM #8	04/06/12	05/16/12	Substation	Additional water sources @ Red Cloud Road, Red Bluff Substation.
DNA #1	10/27/11	12/07/11	Series Capacitor	Request for a slight expansion of the Series Capacitor site due to engineering conflicts.
DNA #2	12/21/11	02/01/12	Red Bluff	Request to install secondary well at Red Bluff Substation site.
DNA #3	12/22/11	05/24/12	Series Capacitor	Request to relocate a portion of the Imperial Irrigation District distribution line located at the Series Capacitor site.
DNA #4	02/01/12	05/24/12	T/L	Request for the addition of proposed helicopter construction and maintenance platforms to the description included in the Project Refinements 1 and 2 documents.
DNA #5	03/05/12	05/22/12	Red Bluff Loop-ins	Request to revise road locations.
DNA #6	04/04/12	04/17/12	Substation	Red Bluff Substation access road realignment.
DNA #7	04/12/12	05/22/12	Series Capacitor	Certain activities to be constructed within the footprint of the Series Capacitor bank.
DNA #8	05/02/12	07/31/12	T/L	Additional access route between Towers 2528X and 2527.
DNA #9	05/19/12	06/15/12	CRS	Request for a permanent turning radius along the CRS access road.
DNA #9	06/04/12	06/15/12	CRS	300-foot driveway along the CRS access road.
DNA #11	07/02/12	07/31/12	T/L	A Level 2 Variance request for a disturbance area shift at Tower 1013 due to engineering changes. This tower is located on BLM land.
—	07/24/12	Retracted	T/L	APM A-6 - Eliminate tarping on bottom dump trucks.
BLM #9	04/04/12	09/21/12	T/L	Request for a HLZ and temporary disturbance area shifts near CRS.
DNA #10	06/18/12	09/25/12	Substation	Request to build a telecom site near Desert Center for Red Bluff Substation.

Variance Request	Date Requested	Date Issued	Segment	Description
DNA #12	07/30/12	09/26/12	Substation	DNA for Colorado River Substation Telecommunication Distribution Line.
BLM #10	10/24/12	11/20/12	T/L	Request to construct Tower 2413 using both conventional and helicopter construction methods.
<b>USFS</b>				
USFS-1	03/15/12	03/20/12	T/L	SBNF engineering modifications (revised disturbance areas).

**TABLE 3**  
**TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS**  
(Updated 4/11/13)

TEWS Request	Date Requested	Date Approved	Segment	Description
<b>CPUC</b>				
#1	07/20/11	07/27/11	Blythe Yard	Use of offsite hydrant and installation of water tank at location adjacent to Blythe Construction Yard
#2	07/28/11	08/04/11	Menifee Yard	Use of offsite hydrant, located along the frontage of the Menifee Construction Yard, and a flexible hose to supply water to a 4,000 gallon water truck.
#3	08/16/11	08/16/11	Menifee Yard	Revised use of offsite hydrant, located along the frontage of the Menifee Construction Yard, approximately 200 yards north of previously approved location.
—	09/06/11	Retracted	Devers Yard	Revised use of offsite hydrant, including installation of above ground pipeline and water towers.
#4	09/29/11	09/29/11	T/L	Use of parking areas along primary access road within 400-ft total distance exclusionary fencing locations with exception of sites within the Coachella Valley Preserve.
#5	07/13/12	07/17/12	T/L	Request to use two existing access roads near Tower 1118 and 1119.
#6	07/31/12	08/03/12	T/L	Request to use an existing access road to Tower 1122
#7	08/01/12	08/03/12	T/L	Request to use an existing access road to H9
#8	11/07/12	11/08/12	T/L	Request to use an existing access road near Tower 1141.
#9	03/27/13	03/28/13	T/L	Request to use a turnout off Highway 79.
#10	03/29/13	03/29/13	T/L	Request to use an existing road near Tower 1099.
<b>BLM Level 1</b>				
Level 1 #1	06/06/12	06/11/12	Red Bluff Loop In	RB1-4E disturbance area shift.
Level 1 #2	07/12/12	08/06/12	T/L	Request for two stand tank locations. Received revised request from SCE on 08/06/12.

TEWS Request	Date Requested	Date Approved	Segment	Description
Level 1 #3	09/13/12	Partial Approval on 09/17/12, Complete Approval on 09/24/12	T/L	Remove visual screening at Helicopter Landing Zones H1E H4 and H5.  *Approved the removal of screening at H4 on 09/17/12. Approval of the removal of screening at H1E and H5 on 09/24/12.
Level 1 #4	09/14/12	09/17/12	T/L	Request to shift the tower disturbance area at Tower 2644.
Level 1 #5	09/14/12	09/19/12	T/L	Request to use an existing road (Ford Dry Lake Road) as access.
Level 1 #6	09/25/12	09/26/12	T/L	Request the use of an additional access route to Tower 1130.
Level 1 #7	10/09/12	10/11/12	T/L	Request to use an access road (Chuckwalla Valley road) near Tower 2574.
Level 1 #8	12/20/12	01/16/13	Substation	Request to export the excess excavation soil from Red Bluff Substation to a local approved disposal site.
Level 1 #9	01/18/13	02/04/13	Substation	Request to use Gravel Pit Road to access pole installation locations east of TL tower M123-T1 for the SE Telecom Route.
Level 1 #10	02/07/13	02/08/13	Substation	Request for a temporary work space for the Red Bluff Desert Center Telecom.
Level 1 #11	02/20/13	02/22/13	Substation	Request for a temporary work area at the Series Capacitor Site.
Level #1 #12	02/28/13	03/04/13	Substation	Request for two additional temporary work areas at the Series Capacitor Site for an underground conduit.
Level #1 #13	03/07/13	03/08/13	T/L	Request to use Gasline Road to Tower 2249 to avoid an active nest.
<b>BLM Level 2A</b>				
Level 2A #1	09/20/12	09/24/12	T/L	Request for pull site revisions from Devers to Red Bluff.
Level 2A #2	10/04/12	10/05/12	T/L	Request for an access road to RB14 pull site near Red Bluff.
Level 2A #3	10/04/12	10/25/12	T/L	Request for additional disturbance area for pull sites and an access road near Red Bluff RB2-5E. Revised on 10/11/12 and 10/22/12.
Level 2A #4	10/05/12	10/10/12	T/L	Request to relocate two guard structures near Red Bluff.
Level 2A #5	10/10/12	10/10/12	T/L	Request for additional disturbance area at Tower RB1-2W in order to build the tower prior to the scheduled outage.
Level 2A #6	10/19/12	10/25/12	T/L	Request for temporary disturbance area shifts at wire sites, splice sites, pull sites, guard structures and access roads from CRS to RB.

TEWS Request	Date Requested	Date Approved	Segment	Description
Level 2A #7	10/19/12	10/25/12	T/L	Request for temporary disturbance area shifts at splice site 53 (near Tower 2535) and access road to Wire Site 69/Pull Site 70/54 (near tower 2540).
Level 2A #8	10/30/12	Awaiting revised request from SCE	T/L	Request additional disturbance area at Guard Sites GS05 and GS05A.
Level 2A #9	11/14/12	11/16/12	T/L	Request to shift Fiber Optic Site 63.
Level 2A #10	11/09/12	11/16/12	T/L	Request for the shift of Wire Site No 73/Pull Site No 74/Splice Site No 58, Wire Site No 81/Pull Site No 82/Splice Site No 65, and Wire Site No 83/Pull Site No 84/Splice Site.
Level 2A #11	11/14/12	11/16/12	T/L	Request for the shift Splice Site 55, Access Rd to Splice Site No. 55, Guard Structures 126 and 127, and Pull Sites 71 and 72.
Level 2A #12	11/19/12	11/28/12	T/L	Request to widen Guard Structures CRD-GS132, CRD-GS133, CRD-GS137, CRD-GS138, and CRD-GS138A (Pull Site 78, Wire Site 77).
Level 2A #13	11/28/12	12/05/12	T/L	Request to revise pull sites from Devers to Red Bluff (Pull Site Revision III-A).
Level 2A #14	12/05/12	12/11/12	T/L	Request to expand Splice Site 40
Level 2A #15	01/07/13	01/10/13	T/L	Request to shift guard structures from Red Bluff to Devers (Minor Modification).
Level 2A #16	01/31/13	02/13/13	T/L	Request to shift Devers to Valley Pulls 103 for Towers 1014-1016.
Level 2A #17	04/01/13	04/03/13	Substation	Request a work area for the Red Bluff Telecommunication Manhole.

## NON-COMPLIANCES & INCIDENTS

Table 4 provides a summary of reported non-compliance incidents.

**TABLE 4**  
**CPUC NON-COMPLIANCE REPORTS & PROJECT MEMORANDA**  
(Updated 4/11/13)

Type	Date Issued	Location	Description
<b>CPUC Project Memoranda (PM)</b>			
PM #1	10/28/11	CRS Dist. Line	Construction vehicles leaving marked disturbance limits at two locations along CRS distribution line.
PM #2	01/18/12	Tower 2649/ CR1-2W	DPV2 Construction contractor vehicle driving outside of the approved tower and access road disturbance area limits.
PM #3	03/08/12	Tower 1059 & 1060	Failure to comply with MM B-5 which requires that 300-foot buffers are established around active bird nests. Working within unapproved active nest buffers.

Type	Date Issued	Location	Description
PM #4	04/04/12	Tower 2515, 2520, & 2526	Impacts to desert pavement at Towers 2520 and 2526 by not implementing one of the approved methods stated in the revised Desert Pavement Plan. Impacts to desert tortoise habitat when a road was built near Tower 2515 that was not approved.
PM #5	04/18/12	Along the main access road near Red Bluff	Excessive fugitive dust observed on multiple locations along the main access road near Red Bluff Substation. Violation of MM AQ-1a.
PM #6	05/08/12	Along the T/L access roads	Construction vehicles observed driving off the approved access road limits at various locations along the T/L.
PM # 7	06/01/12	Near Tower 2317	Two stand tanks were installed in an area that was not approved for the Project along the access road near Tower 2317.
PM #8	06/01/12	Along the access road near Tower 2310	Road base was installed along a portion of the access road to protect the utility crossing south of Tower 2310. This work was completed prior to the pre-construction verification and release of this road from the CPUC.
PM #9	06/19/12	Tower 2126	Inadequate covering of foundation excavations at Tower 2126. Violation of BO-13.
PM #10	09/21/12	Tower 1037	Work occurred at Tower 1037 without the Fire Patrol Representative on site, a requirement on the Fire Plan.
PM #11	12/05/12	Tower 1070	Excessive Fugitive Dust during Helicopter Picks at Tower 1070. Violation of MM AQ-1a and the Fugitive Dust Emission Control Plan.
PM #12	03/19/13	Towers 1001 and 1077	Construction work occurring prior to a biological monitor present at Towers 1001 and 1077.
PM #13	03/21/12	Various Locations along the T/L	Helicopter construction operations occurring within ESA nest buffers.
<b>CPUC Non-Compliance Reports (NCR)</b>			
NCR #1	01/13/12	Project-wide	Unapproved removal of stick nests from DPV1 Transmission Line towers.
NCR #2	05/18/12	Tower 2333	Failure to protect wildlife during construction which resulted in the death of a kit fox.
NCR #3	06/04/12	Near Tower 2310	Road base was installed at two locations along the access road to protect the utility crossings near Tower 2310. This work was completed prior to the pre-construction verification and release of this road from the CPUC.
NCR #4	07/02/12	Near 2303X	Road base installed along a portion on a road not approved for the Project.
NCR #5	07/02/12	Near 2204 and 2205	Project equipment drove outside the approved road width along the access road near Towers 2204 and 2205. These towers are located within the Coachella Valley Preserve.
NCR #6	07/06/12	Near Tower 1083	Project equipment drove outside the existing road width along the access road near Tower 1083.
NCR #7	07/12/12	Tower 2437	Inadequate covering of a foundation excavation at Tower 2437. Violation of BO-13.

Type	Date Issued	Location	Description
NCR #8	07/23/12	Near Tower 2604	Project equipment drove outside the approved road limits along Chuckwalla road west of Tower 2604.
NCR #9	08/28/12	Tower 2644	Construction work conducted outside the approved project limits.
NCR #10	09/10/12	Towers 1153 and 1155	Construction work conducted at Towers 1153 and 1155 prior to the CPUC site verification and release to SCE.
NCR #11	10/18/12	Tower 1036	Excavations at Tower 1036 were left uncovered and no proper means for wildlife to escape entrapment had been installed. Violation of BO-13.
NCR #12	11/02/12	Tower RB2-4E	Work occurred at an unapproved location near RB2-4E.
NCR #13	01/29/13	Access road to Tower 1130	Violation of the conditions of BLM Variance Approval #6, which stated no road improvement to the existing road could be made. Road improvements were conducted on 01/19/13.
NCR #14	03/19/13	Tower 1078	Construction work occurring within an ESA buffer near Tower 1078, which is a violation to Mitigation Measure B-5a.
NCR #15	03/21/13	Guard Structure Sites near Towers 1001 and 1003	Construction work occurring outside the approved work area limits at the Guard Structure Sites near Tower 1001 and 1003.

## CONSTRUCTION PROGRESS

Table 5 provides a summary of transmission line construction progress.

**TABLE 5**  
**CONSTRUCTION PROGRESS STATUS**  
 (As of 03/30/13)

	<b>Agency</b>	<b>Number of Towers</b>	<b>Towers Released for Construction</b>	<b>Tower Foundations Completed</b>	<b>Towers Erected</b>	<b>Primary Wire Installed (per tower)</b>	<b>OHGW/OPGW Installed (per tower)</b>
<b>CRS-Devers</b>	Non Federal (CPUC)	208	208	208	208	208	208
	Bureau of Land Management (BLM)	197	197	197	197	197	197
	US Forest Service (SBNF)	N/A	N/A	N/A	N/A	N/A	N/A
	Sub Total	405	405	405	405	405	405
	% Complete	N/A	100%	100%	100%	100%	100%
<b>Devers-Valley</b>	Non Federal (CPUC)	138	138	133	93	11	11
	Bureau of Land Management (BLM)	11	11	11	6	0	0
	US Forest Service (SBNF)	12	12	10	5	0	0
	Sub Total	161	161	154	104	11	11
	% Complete	N/A	100%	96%	65%	7%	5%
<b>Total Project</b>	Non Federal (CPUC)	346	346	341	301	219	219
	Bureau of Land Management (BLM)	208	208	208	203	197	197
	US Forest Service (SBNF)	12	12	10	5	0	0
	Total	566	566	559	509	416	416
	% Complete	N/A	100%	99%	90%	73%	73%

## PROJECT PHOTOGRAPHS



Figure 1. Site stabilization activities at Tower 2116.



Figure 2. Micropile drilling at Tower 1108.



Figure 3. Skycrane lifting a tower section out of HLZ H2. (Photo courtesy SCE).



Figure 4. OPGW crew conducted sleeving of the static wire outside the approved disturbance areas between Towers 2230 and 2230AX. (Photo courtesy of FRED)



Figure 5. CVMV ESA impact at Tower 1028.



Figure 6. Equipment failure at Wire Site 31/Pull Site 32 (between Towers 2259 and 2260) caused one of the conductor wires to break free coming into contact with the ground. (Photo courtesy of FRED).



Figure 7. After the conductor fell to the ground, it was decided to mobilize one bulldozer on an existing off-road trail (selected by the SCE Biologists to minimize impacts) located in a large wash immediately west of the wire/pull site. Crews were able to temporarily secure the wire. (Photo courtesy of FRED).

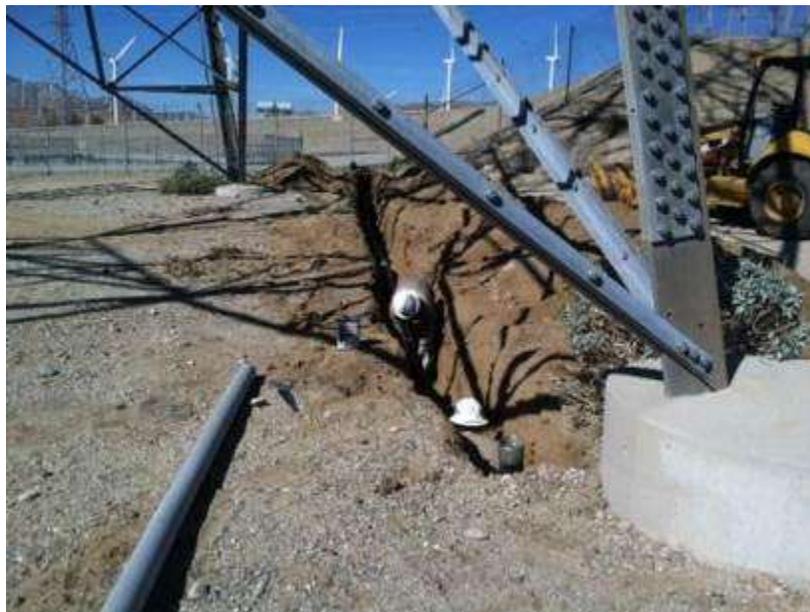


Figure 8. Telecommunications conduit trench work from the Devers Substation to Tower 1000X.