



November 14, 2018

Lisa Orsaba
Project Manager
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: Monthly Report Summary #12 for the Mesa 500-kV Substation Project

Dear Ms. Orsaba,

This report provides a summary of the compliance monitoring activities that occurred during the period from **September 1 to 30, 2018**, for the Mesa 500-kilovolt (kV) Substation (Mesa Substation) Project in Los Angeles County, California. Compliance monitoring was performed to ensure that all project-related activities conducted by Southern California Edison (SCE) and their contractors comply with the requirements of the Final Environmental Impact Report (Final EIR) for the Mesa Substation Project, as adopted by the California Public Utilities Commission (CPUC) on February 9, 2017.

The CPUC has issued the following Notices to Proceed (NTPs) for the Mesa Substation Project to SCE:

- NTP #1 (September 27, 2017) – Vegetation removal and grading, water line relocation, Operating Industries Incorporated (OII) well removal, and various line relocations (transmission, subtransmission, distribution, and telecommunications).
- NTP #2 (November 15, 2017) – Remaining construction components, including vegetation removal and grading, and the removal, replacement, relocation, modification, and/or construction of perimeter and retaining walls, Mechanical Electrical Equipment Rooms (MEERs), operations and test and maintenance buildings, storm drains, lattice steel towers, various poles, underground trenches, concrete foundations, and associated components. Equipment modification at 29 satellite substations.

Onsite compliance monitoring by the Ecology and Environment, Inc. (E & E) compliance team during this reporting period focused on spot-checks of ongoing construction activities. Compliance Monitor Vince Semonsen visited the Mesa Substation construction sites on **September 5, 12, 19, and 26, 2018**. Site inspection reports that summarize observed construction activities and compliance events and verify mitigation measures (MMs) and applicant proposed measures (APMs) were completed for the site visits. These reports are attached below (Attachment 1).

Overall, the Mesa Substation Project has maintained compliance with the Mitigation Monitoring, Compliance, and Reporting Program's (MMCRP) Compliance Plan. Communication between the CPUC/E & E compliance team and SCE has been regular and effective; the correspondence discussed and documented compliance events, upcoming compliance-related surveys and deliverables, and the construction schedule. Agency calls between the CPUC/E & E and SCE, along with daily schedule updates and database notifications, provided additional compliance information and construction summaries. Furthermore, SCE's monthly compliance status report for September 2018 provided a compliance summary and included a description of construction activities from September 1 to 30, 2018, a detailed look-ahead construction schedule, a summary of compliance with Mesa Substation Project commitments (MMs/APMs) for biological resources, cultural and paleontological resources, the Storm

Water Pollution Prevention Plan (SWPPP), noise, and the Worker Environmental Awareness Program (WEAP), non-compliance issues and resolutions, and public complaints and notifications.

Compliance Incidents

On September 5 and 6, SCE's contractor, Power Grade, held a voluntary stand-down to address recent minor safety incidents with crews.

During the September 2018 reporting period, SCE reported one minor compliance incident:

- On September 17, the biological monitor observed a 2-gallon hydraulic fluid spill in Grading Area 1G. Approximately 20 gallons of contaminated soil was removed and placed in a 55-gallon drum for removal and disposal.

During the September 2018 reporting period, the CPUC Compliance Monitor reported several minor compliance trends, including ineffective wildlife escape ramps installed in trenches or omitted entirely, and lack of adequate dust control.

Noise Compliance

During the September 2018 reporting period, there were no exceedances of the stipulated noise levels.

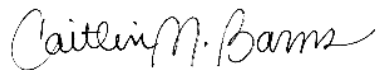
Public Concerns

There were no public concerns during September 2018.

Minor Approvals

During September 2018, there were no email or Minor Project Change approvals.

Sincerely,



Caitlin Barns
Project Manager, Ecology and Environment, Inc.

cc:
Lori Rangel, SCE
Don Dow, SCE

ATTACHMENT 1

CPUC Site Inspection Reports
September 5, 12, 19, and 26, 2018



Mesa 500-kV Substation Project CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	Date:	September 5, 2018
Project Proponent:	Southern California Edison	Report #:	VS039
Lead Agency:	California Public Utilities Commission	Monitor(s):	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	AM/PM Weather:	Hazy overcast, mild temps w/ a slight breeze
E & E CM:	Caitlin Barns	Start/End time:	1130 – 1400 hrs
Project NTP(s):	NTP-1, NTP-2		

SITE INSPECTION CHECKLIST (Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all new hires (construction and monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed?	X		
Are erosion and sediment control measures (BMPs) properly installed (without apparent deficiencies) and functioning as intended during rain events?	X		
Are measures in place to avoid/minimize mud tracking onto public roadways, in accordance with the project's SWPPP?	X		
Is dust control being implemented (i.e., access roads watered, haul trucks covered, dirt piles are tarped, streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?	X		
Equipment	Yes	No	N/A
Are observed vehicles maintaining a speed limit of 15 mph on unpaved roads? Except for the belly scrapers.	X		
Are observed vehicles/equipment arriving onsite clean of sediment or plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		
Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		

Are excavations and trenches covered at the end of the day?	X		
Are wildlife escape ramps installed at 100-foot intervals with ramps not exceeding 2:1 slopes?		X	
Biology	Yes	No	N/A
Have preconstruction surveys been completed for biological (wildlife, nesting birds, coastal California gnatcatcher, least Bell's vireo) resources, as appropriate?	X		
Are biological monitors present onsite?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, biological monitor, appropriate buffer distance enacted)?	X		
Has wildlife been relocated from work areas? If yes, describe below.		X	
Have impacts occurred to adjacent habitat (sensitive or non-sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts to these features?			X
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are identified cultural/paleo resources that will not be relocated/salvaged clearly marked for exclusion?			X
Are archaeological and paleontological monitors onsite, if needed?	X		
Are appropriate buffers maintained around sensitive resources (e.g. cultural sites)?			X
Have there been any work stoppages for cultural/paleo resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on site properly managed?	X		
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place?	X		
Are contaminated soils properly managed for onsite storage or offsite disposal?	X		
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?	X		
Is construction occurring within approved hours?	X		
Are required noise control measures in place?			X

AREAS MONITORED (i.e., structure numbers, yards, or substations)

Mesa Substation, stormwater drainpipe installation, HDD work, and the Transmission Corridor work north of Potrero Grande Drive and south of Hwy 60.

DESCRIPTION OF OBSERVED ACTIVITIES (i.e., mitigation measures of particular focus or concern, construction activity, any discussions with first-party monitors or construction crews)

I arrived at the Mesa Substation site at 1130 and informed Pete Lubich (ULM Services, Inc.) that I was onsite. I contacted Project Engineer Scott Lacey (SCE) and we met onsite to look at the detention basin. We discussed the standpipe design and how rainwater runoff would be captured and released onsite.

Construction continues at the Senior Mechanical Electrical Equipment Room (MEER) – Photo 1.

Water trucks were applying water to the site (APM-AIR-01, MM HY-1) and concrete trucks were washing out in approved bins - Photo 2.

Biological monitor Bob Huttar (Noreas) was onsite along with lead monitor Matt Daniele (ICF) and new biological monitor Dilip Mahto (MM BR-1, APM-BIO-03, APM-BIO-04, APM-BIO-06, MM BR-2). A recent compliance focus has been on the removal of microtrash throughout the site.

Preparation and excavation of the “V” ditches along the southern border – Photo 3. The v-ditches adjacent to the hotel had been poured – Photo 4. The north facing slope between the two newly poured v-ditches had been recontoured – Photo 6. The weedy vegetation had been left in place during recontouring.

The concrete pour at the Markland storm drain lateral line is complete – Photo 5.

At the 66-kV and 220-kV racks, foundations continued to be dug, formed, and poured– Photos 7 & 9. Aboveground installation work continued within the 66Kv rack area – Photo 10.

Storm drains were open in several locations. Escape ramps remained in place and the storm drain itself was capped to prevent wildlife from entering – Photo 8.

Excavation for the border wall foundation was underway. The wall will be extended along the southern edge of the project site – Photo 11. Escape ramps had been placed in the excavation (MM BR-10).

Two vaults had been excavated and placed near the southern portion of the project site – Photo 12. The vaults were uncapped, and I discussed my concerns with the biological monitoring team that these posed a risk to wildlife.

A large number of rebar cages had been brought onsite and staged near the southeastern portion of the project site – Photo 13. Work at the Mesa Operations Building Site continued, primarily installing the underground utilities – Photo 14.

Work north of Potrero Grande continued with conduit vault installation – Photo 15. Escape ramps and fugitive dust were a concern. Before leaving the site brought these concerns to Pete Lubich and Matt Daniele.

MITIGATION MEASURES VERIFIED (Refer to MMCRP, e.g., MM BR-9. Report only on MMs pertinent to your observations today)

All project personnel appear to have been WEAP trained (MM BR-5).
See the MMs listed in the observed activities.

RECOMMENDED FOLLOW-UP (i.e., items to check on next visit, minor issues to resolve)

Escape ramps, dust control and BMP maintenance.

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS (i.e., suggestions to improve compliance on-site, environmental observations of note)

Weed removal on the banks of the detention basin

COMPLIANCE SUMMARY




Below please describe any non-compliance issues or new biological/cultural discoveries that have occurred since your last visit. If you observe a non-compliance issue in the field, please note this on the monitoring datasheet, and for non-compliance Level 2 or 3 fill out and submit a separate Non-Compliance Report Form to E & E Compliance Manager. Inform E & E CM of any non-compliance incidents.

- New biological or cultural discovery requiring compliance with mitigation measures, permit conditions, etc. If checked, please describe discovery and documentation/verification below.
- Non-compliance – Level 1: An action that deviates from project requirements or results in the partial implementation of the mitigation measures, but has not caused, or has the potential to cause impacts on environmental resources. If you checked this box, describe the incident below and follow-up to ensure correction.
- Non-Compliance Level 2: An action that deviates from project requirements or mitigation measures that has caused, or has the potential to cause minor impacts on environmental resources. A non-compliance Level 2 situation may occur when Level 1 incidents are repeated, and show a trend toward placing resources at unnecessary risk. If you checked this box, please fill out a Non-Compliance Report.
- Non-Compliance Level 3: An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the APMs, mitigation measures, permit conditions, approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. Examples include irreparable damage to archaeological sites, destruction of active bird nests, and grading of unapproved vegetated areas. A non-compliance Level 3 may also be issued if Level 2 incidents are repeated. If you checked this box, please fill out a Non-Compliance Report.
- Non-compliance issues reported by SCE: Were there any new non-compliance issues reported by SCE monitors since your last visit? If so, describe issues and resolution and include SCE report identification number.




Date	Non-compliance issue and resolution	Relevant Mitigation Measure	NC Report #

PREVIOUS NON-COMPLIANCE ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:




REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/05/18	Mesa substation		Photo 1 – The Sr. MEER first floor installation. Photo facing south
9/05/18	Mesa substation		Photo 2 – Concrete trucks washing out in approved bins. Photo facing west
9/05/18	Mesa substation		Photo 3 – Excavation for a “V” ditches along the southern border of the project. Photo facing west



REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/05/18	Mesa substation		Photo 4 – Newly poured “V” ditches along the northern border of the project site. Photo facing east
9/05/18	Mesa substation		Photo 5 – Concrete drain inlet for the Markland storm drain lateral line.
9/05/18	Mesa substation		Photo 6 – Weedy vegetation track rolled into the slope. Photo facing west




REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/05/18	Mesa substation		Photo 7 – Foundations continue to be excavated, formed and poured. Photo facing south
9/05/18	Mesa Substation		Photo 8 – Various locations of the storm drain system remain open.
9/05/18	Mesa Substation		Photo 9 – 220Kv rack area. Photo facing north

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/05/18	Mesa Substation		Photo 10 – 66Kv rack area. Photo facing north
9/05/18	Mesa Substation		Photo 11 – Trench for border wall foundation being dug. Photo facing north
9/05/18	Mesa Substation		Photo 12 – Newly installed conduit vault with the shoring removed.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/05/18	Mesa substation		<p>Photo 13 – Numerous rebar cages stockpiled onsite near the southeast corner of the project site. Photo facing east</p>
9/05/18	Mesa substation		<p>Photo 14 – Conduit work continues within the Mesa Operation Building area. Photo facing north</p>
9/05/18	Mesa substation		<p>Photo 15 – Conduit vault excavation continues north of Potrero Grande. Photo facing west</p>



Mesa 500-kV Substation Project CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	Date:	September 12, 2018
Project Proponent:	Southern California Edison	Report #:	VS040
Lead Agency:	California Public Utilities Commission	Monitor(s):	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	AM/PM Weather:	Clear & sunny, hot temps, calm
E & E CM:	Caitlin Barns	Start/End time:	1130 – 1400 hrs
Project NTP(s):	NTP-1, NTP-2		

SITE INSPECTION CHECKLIST (Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all new hires (construction and monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed?	X		
Are erosion and sediment control measures (BMPs) properly installed (without apparent deficiencies) and functioning as intended during rain events?	X		
Are measures in place to avoid/minimize mud tracking onto public roadways, in accordance with the project's SWPPP?	X		
Is dust control being implemented (i.e., access roads watered, haul trucks covered, dirt piles are tarped, streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?	X		
Equipment	Yes	No	N/A
Are observed vehicles maintaining a speed limit of 15 mph on unpaved roads? Except for the belly scrapers.	X		
Are observed vehicles/equipment arriving onsite clean of sediment or plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		
Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		
Are excavations and trenches covered at the end of the day?	X		

Are wildlife escape ramps installed at 100-foot intervals with ramps not exceeding 2:1 slopes?	X		
Biology	Yes	No	N/A
Have preconstruction surveys been completed for biological (wildlife, nesting birds, coastal California gnatcatcher, least Bell's vireo) resources, as appropriate?	X		
Are biological monitors present onsite?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, biological monitor, appropriate buffer distance enacted)?	X		
Has wildlife been relocated from work areas? If yes, describe below.		X	
Have impacts occurred to adjacent habitat (sensitive or non-sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts to these features?			X
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are identified cultural/paleo resources that will not be relocated/salvaged clearly marked for exclusion?			X
Are archaeological and paleontological monitors onsite, if needed?	X		
Are appropriate buffers maintained around sensitive resources (e.g. cultural sites)?			X
Have there been any work stoppages for cultural/paleo resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on site properly managed?	X		
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place?	X		
Are contaminated soils properly managed for onsite storage or offsite disposal?	X		
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?	X		
Is construction occurring within approved hours?	X		
Are required noise control measures in place?			X

AREAS MONITORED (i.e., structure numbers, yards, or substations)

The Mesa Substation work, the storm water drainpipe installation, HDD work, and the Transmission Corridor work north of Potrero Grande Drive and south of Hwy 60.

DESCRIPTION OF OBSERVED ACTIVITIES (i.e., mitigation measures of particular focus or concern, construction activity, any discussions with first-party monitors or construction crews)

I arrived at the Mesa Substation site at 1130 and informed Pete Lubich (ULM Services, Inc.) that I had arrived.

Construction on the Senior Mechanical Electrical Equipment Room (MEER) continued with work on the first floor – Photo 1.

Water trucks were applying water throughout the site (APM-AIR-01, MM HY-1).

Concrete washout bins were provided and well contained. Despite this, it appeared that some concrete had been washed out onto the ground at the station - Photo 2.

At the 220-kV rack, conduit trenching was underway - Photo 3.

Work continues on the storm drain, and several manholes were open – Photo 4. The Markland storm drain lateral line had been backfilled – Photo 5. Ground-level concrete v-ditches were being installed at several locations, and they have applied concrete over the steep slope near the southwestern portion of the project site – Photo 6.

Work continues within the 66-kV and 220-kV rack areas – Photo 7.

I attended the mid-day tailboard meeting for the monitoring staff. Afterward I talked with lead monitor Matt Daniele (ICF), biological monitor Wayne Woodroof (Noreas) and new biological monitor Angela Johnson (MM BR-1, APM-BIO-03, APM-BIO-04, APM-BIO-06, MM BR-2) about the need for escape ramps for the trenches and vaults (MM BR-10). One of the vaults was being poured as we watched – Photo 8. Even after the vaults have been poured, there is still a need for escape ramps because of the foot-high depression that remains – Photo 10. I suggested that an earthen escape ramp would be most effective here.

Rebar was being installed at the “combo wall” along the southern border of the project site – Photo 9. Crews had installed wooden escape ramps at various locations along the foundation trench.

At the Marketplace drain catch basin I observed no changes and it appeared that no additional pumping has been needed – Photo 11.

Underground utilities work continued at the Mesa Operations Building Site – Photo 12.

Wayne and I walked along the telecommunications corridor north of Potrero Grande. A motor grader had been recontouring, but had stalled in the soft soil – Photo 13.

An excavator was digging a conduit trench near one of the vaults – Photo 14. Much of this corridor required more effective dust control. I mentioned this to Wayne and Pete before I left the site.

Lastly, Wayne and I looked at a poorly maintained site drain north of Potrero Grande. He was aware of this BMP issue.

MITIGATION MEASURES VERIFIED (Refer to MMCRP, e.g., MM BR-9. Report only on MMs pertinent to your observations today)

All project personnel appear to have been WEAP trained (MM BR-5).
See the MMs listed in the observed activities.

RECOMMENDED FOLLOW-UP (i.e., items to check on next visit, minor issues to resolve)

Escape ramps, dust control and BMP maintenance.

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS (i.e., suggestions to improve compliance on-site, environmental observations of note)

Weed removal on the banks of the detention basin

COMPLIANCE SUMMARY



Below please describe any non-compliance issues or new biological/cultural discoveries that have occurred since your last visit. If you observe a non-compliance issue in the field, please note this on the monitoring datasheet, and for non-compliance Level 2 or 3 fill out and submit a separate Non-Compliance Report Form to E & E Compliance Manager. Inform E & E CM of any non-compliance incidents.

- New biological or cultural discovery requiring compliance with mitigation measures, permit conditions, etc. If checked, please describe discovery and documentation/verification below.
- Non-compliance – Level 1: An action that deviates from project requirements or results in the partial implementation of the mitigation measures, but has not caused, or has the potential to cause impacts on environmental resources. If you checked this box, describe the incident below and follow-up to ensure correction.
- Non-Compliance Level 2: An action that deviates from project requirements or mitigation measures that has caused, or has the potential to cause minor impacts on environmental resources. A non-compliance Level 2 situation may occur when Level 1 incidents are repeated, and show a trend toward placing resources at unnecessary risk. If you checked this box, please fill out a Non-Compliance Report.
- Non-Compliance Level 3: An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the APMs, mitigation measures, permit conditions, approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. Examples include irreparable damage to archaeological sites, destruction of active bird nests, and grading of unapproved vegetated areas. A non-compliance Level 3 may also be issued if Level 2 incidents are repeated. If you checked this box, please fill out a Non-Compliance Report.
- Non-compliance issues reported by SCE: Were there any new non-compliance issues reported by SCE monitors since your last visit? If so, describe issues and resolution and include SCE report identification number.

Date	Non-compliance issue and resolution	Relevant Mitigation Measure	NC Report #

PREVIOUS NON-COMPLIANCE ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:




REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/12/18	Mesa substation		Photo 1 – The Sr. MEER first floor installation. Photo facing south
9/12/18	Mesa substation		Photo 2 – Concrete trucks mostly washing out in approved bins. Photo facing west

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/12/18	Mesa substation		Photo 3 – Excavation for a “V” ditches along the southern border of the project. Photo facing west
9/12/18	Mesa substation		Photo 4 – Storm drain manholes are still open. Photo facing south

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/12/18	Mesa substation		Photo 5 – Concrete drain inlet for the Markland storm drain lateral line has been backfilled. Photo facing west
9/12/18	Mesa substation		Photo 6 – Concrete slurry poured on a short steep slope near the southwestern portion of the project site. Photo facing east
9/12/18	Mesa substation		Photo 7 – Work within the 66 and 220Kv rack areas. Photo facing north

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/12/18	Mesa Substation		Photo 8 – Newly installed vault being poured.
9/12/18	Mesa Substation		Photo 9 – Foundation for the “Combo wall” along the southern border. Photo facing east

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/12/18	Mesa Substation		Photo 10 – Poured vault with escape ramps. Photo facing west
9/12/18	Mesa Substation		Photo 11 – Marketplace storm drain outlet. Photo facing east
9/12/18	Mesa Substation		Photo 12 – Lots of conduit being installed within the Mesa Operations building site. Photo facing north

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/12/18	Mesa substation		Photo 13 – Motor grader stuck in loose dirt. Photo facing east
9/12/18	Mesa substation		Photo 14 – Conduit work continues within the telecommunications corridor north of Potrero Grande. Photo facing west



Mesa 500-kV Substation Project CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	Date:	September 19, 2018
Project Proponent:	Southern California Edison	Report #:	VS041
Lead Agency:	California Public Utilities Commission	Monitor(s):	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	AM/PM Weather:	Clear/sunny & warm, no breeze
E & E CM:	Caitlin Barns	Start/End time:	1130 – 1345 hrs
Project NTP(s):	NTP-1, NTP-2		

SITE INSPECTION CHECKLIST (Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all new hires (construction and monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed?	X		
Are erosion and sediment control measures (BMPs) properly installed (without apparent deficiencies) and functioning as intended during rain events?	X		
Are measures in place to avoid/minimize mud tracking onto public roadways, in accordance with the project's SWPPP?	X		
Is dust control being implemented (i.e., access roads watered, haul trucks covered, dirt piles are tarped, streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?	X		
Equipment	Yes	No	N/A
Are observed vehicles maintaining a speed limit of 15 mph on unpaved roads? Except for the belly scrapers.	X		
Are observed vehicles/equipment arriving onsite clean of sediment or plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		
Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		

Are excavations and trenches covered at the end of the day?	X		
Are wildlife escape ramps installed at 100-foot intervals with ramps not exceeding 2:1 slopes?	X		
Biology	Yes	No	N/A
Have preconstruction surveys been completed for biological (wildlife, nesting birds, coastal California gnatcatcher, least Bell's vireo) resources, as appropriate?	X		
Are biological monitors present onsite?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, biological monitor, appropriate buffer distance enacted)?	X		
Has wildlife been relocated from work areas? If yes, describe below.		X	
Have impacts occurred to adjacent habitat (sensitive or non-sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts to these features?			X
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are identified cultural/paleo resources that will not be relocated/salvaged clearly marked for exclusion?			X
Are archaeological and paleontological monitors onsite, if needed?	X		
Are appropriate buffers maintained around sensitive resources (e.g. cultural sites)?			X
Have there been any work stoppages for cultural/paleo resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on site properly managed?	X		
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place?	X		
Are contaminated soils properly managed for onsite storage or offsite disposal?	X		
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?	X		
Is construction occurring within approved hours?	X		
Are required noise control measures in place?			X

AREAS MONITORED (i.e., structure numbers, yards, or substations)

The Mesa Substation work, the storm water drainpipe installation, HDD work, and the Transmission Corridor work north of Potrero Grande Drive and south of Hwy 60.

DESCRIPTION OF OBSERVED ACTIVITIES (i.e., mitigation measures of particular focus or concern, construction activity, any discussions with first-party monitors or construction crews)

I arrived at the Mesa Substation site at 1130 and informed Pete Lubich (ULM Services, Inc.) that I was onsite.

At the Senior Mechanical Electrical Equipment Room (MEER) – Photo 1, an excavator was removing dirt from the west side of the facility – Photo 13. The dirt was being stockpiled at another onsite location.

The concrete washout area was well maintained and water trucks were applying water throughout the site (APM-AIR-01, MM HY-1).

Manhole work along the storm drain system was ongoing – Photo 2.

Drip plans were in place beneath parked equipment– Photo 3.

I talked with biological monitors Wayne Woodroof (Noreas) about project status and oversight issues (MM BR-1, APM-BIO-03, APM-BIO-04, APM-BIO-06, MM BR-2).

Conduit trenching continued at several locations within the project site – Photos 4 and 14. Climbing boards had been installed within all of these trenches (MM BR-10). Conduit installation was being done north of Potrero Grande – Photo 18.

Riprap was being brought into the detention basin and placed below the inlet culvert – Photo 5. The standpipe drain had been wrapped with heavy black plastic, effectively sealing off any outflow from the detention basin – Photo 7.

Work continued on the v-ditch system near Markland Ave. – Photo 6.

Matt Daniele and I observed the vault excavations, which had escape ramps installed – Photo 8. He said he noticed a rabbit in one of the vault excavations early one morning recently, but it was able to escape easily upon his approach. We discussed the variety of wooden escape ramps throughout the site and the need for the escape ramps to be more effective than some we were observing – Photo 10. Conduit vaults were being poured at several locations – Photo 11.

Matt and I observed the sediment deposited in the offsite drainage culvert – Photo 9. This came from the ponded area around the Marketplace outlet. The water was pumped into the new storm drain system that drains into the offsite culvert. Matt said they would ensure the sediment is removed. Work had begun on connecting the offsite inflow with the new storm drain system, which would eliminate future accumulation of sediment – Photos 15 & 16.

Matt also indicated that weed removal would begin soon.

Rebar installation continued in the “combo wall” foundation excavation along the southern border of the project site – Photo 12.

Underground utility work continued at the Mesa Operations Building Site, and it appeared that the floors were being prepared for concrete pouring – Photo 17.

I met the SWPPP inspector (Robert) within the telecommunications corridor north of Potrero Grande. He was working with the contractors on the exit/entry BMPs to prevent trackout onto public roadways. We discussed BMP maintenance needed in other areas of the site.

MITIGATION MEASURES VERIFIED (Refer to MMCRP, e.g., MM BR-9. Report only on MMs pertinent to your observations today)

All project personnel appear to have been WEAP trained (MM BR-5).
See the MMs listed in the observed activities.

RECOMMENDED FOLLOW-UP (i.e., items to check on next visit, minor issues to resolve)

Escape ramps, dust control and BMP maintenance.

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS (i.e., suggestions to improve compliance on-site, environmental observations of note)

Weed removal on the banks of the detention basin

COMPLIANCE SUMMARY

Below please describe any non-compliance issues or new biological/cultural discoveries that have occurred since your last visit. If you observe a non-compliance issue in the field, please note this on the monitoring datasheet, and for non-compliance Level 2 or 3 fill out and submit a separate Non-Compliance Report Form to E & E Compliance Manager. Inform E & E CM of any non-compliance incidents.

- New biological or cultural discovery requiring compliance with mitigation measures, permit conditions, etc. If checked, please describe discovery and documentation/verification below.
- Non-compliance – Level 1: An action that deviates from project requirements or results in the partial implementation of the mitigation measures, but has not caused, or has the potential to cause impacts on environmental resources. If you checked this box, describe the incident below and follow-up to ensure correction.
- Non-Compliance Level 2: An action that deviates from project requirements or mitigation measures that has caused, or has the potential to cause minor impacts on environmental resources. A non-compliance Level 2 situation may occur when Level 1 incidents are repeated, and show a trend toward placing resources at unnecessary risk. If you checked this box, please fill out a Non-Compliance Report.
- Non-Compliance Level 3: An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the APMs, mitigation measures, permit conditions, approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. Examples include irreparable damage to archaeological sites, destruction of active bird nests, and grading of unapproved vegetated areas. A non-compliance Level 3 may also be issued if Level 2 incidents are repeated. If you checked this box, please fill out a Non-Compliance Report.
- Non-compliance issues reported by SCE: Were there any new non-compliance issues reported by SCE monitors since your last visit? If so, describe issues and resolution and include SCE report identification number.



Date	Non-compliance issue and resolution	Relevant Mitigation Measure	NC Report #

PREVIOUS NON-COMPLIANCE ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:




REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/19/18	Mesa substation	 A wide-angle photograph showing a large, rectangular concrete structure under construction. The structure has a dark, possibly black, exterior wall and a flat, light-colored top surface. It is situated on a dirt construction site with other equipment and structures visible in the background under a clear blue sky.	Photo 1 – The Sr. MEER first floor installation. Photo facing south
9/19/18	Mesa substation	 A photograph of a manhole being installed in a deep, narrow trench. The manhole is a cylindrical structure with a green top. The trench walls are made of compacted earth. A yellow caution tape is stretched across the foreground. In the background, there are other construction elements and hills.	Photo 2 – Manhole work. Photo facing south
9/19/18	Mesa substation	 A close-up photograph of a yellow construction vehicle, likely a bulldozer or grader, with a drip pan installed underneath. The vehicle is on a dirt surface, and the drip pan is a small, dark, rectangular tray positioned to catch any leaks.	Photo 3 – Drip pans in place.



REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/19/18	Mesa substation		Photo 4 – Conduit trench near the 66Kv rack area. Photo facing south
9/19/18	Mesa substation		Photo 5 – Riprap being brought into the detention basin. Photo facing west

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/19/18	Mesa substation		Photo 6 – “V” ditch work near the Markland road area. Photo facing west
9/19/18	Mesa substation		Photo 7 – Detention basin standpipe wrapped in plastic.
9/19/18	Mesa Substation		Photo 8 – Vault excavations with escape ramps. Photo facing east



REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/19/18	Mesa Substation		Photo 9 – Muddy sediment captured in the offsite drainage channel. Photo facing west
9/19/18	Mesa Substation		Photo 10 – Vault holes with shoring and a form of escape ramp. Photo facing north




REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/19/18	Mesa Substation		Photo 11 – Vault being poured in place. Photo facing southeast
9/19/18	Mesa Substation		Photo 12 – Rebar installation for the “Combo” wall foundation along the southern property boundary. Photo facing west
9/19/18	Mesa substation		Photo 13 – Excavator removing dirt near the Sr. MEER. Photo facing north

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/19/18	Mesa substation		Photo 14 – Conduit trench with climbing boards. Photo facing east
9/19/18	Mesa Substation		Photo 15 – Storm drain work near the southeast portion of the project. Photo facing southwest

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/19/18	Mesa Substation		Photo 16 – Marketplace drain outlets.
9/19/18	Mesa Substation		Photo 17 – Mesa Operations Building work. Photo facing northwest
9/19/18	Mesa Substation		Photo 18 – Conduit installation north of Potrero Grande. Photo facing southwest



Mesa 500-kV Substation Project CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	Date:	September 26, 2018
Project Proponent:	Southern California Edison	Report #:	VS042
Lead Agency:	California Public Utilities Commission	Monitor(s):	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	AM/PM Weather:	Hazy sunshine & warm, slight breeze
E & E CM:	Caitlin Barns	Start/End time:	1130 – 1430 hrs
Project NTP(s):	NTP-1, NTP-2		

SITE INSPECTION CHECKLIST (Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all new hires (construction and monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed?	X		
Are erosion and sediment control measures (BMPs) properly installed (without apparent deficiencies) and functioning as intended during rain events?	X		
Are measures in place to avoid/minimize mud tracking onto public roadways, in accordance with the project's SWPPP?	X		
Is dust control being implemented (i.e., access roads watered, haul trucks covered, dirt piles are tarped, streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?	X		
Equipment	Yes	No	N/A
Are observed vehicles maintaining a speed limit of 15 mph on unpaved roads? Except for the belly scrapers.	X		
Are observed vehicles/equipment arriving onsite clean of sediment or plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		
Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		
Are excavations and trenches covered at the end of the day?	X		

Are wildlife escape ramps installed at 100-foot intervals with ramps not exceeding 2:1 slopes?	X		
Biology	Yes	No	N/A
Have preconstruction surveys been completed for biological (wildlife, nesting birds, coastal California gnatcatcher, least Bell's vireo) resources, as appropriate?	X		
Are biological monitors present onsite?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, biological monitor, appropriate buffer distance enacted)?	X		
Has wildlife been relocated from work areas? If yes, describe below.		X	
Have impacts occurred to adjacent habitat (sensitive or non-sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts to these features?			X
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are identified cultural/paleo resources that will not be relocated/salvaged clearly marked for exclusion?			X
Are archaeological and paleontological monitors onsite, if needed?	X		
Are appropriate buffers maintained around sensitive resources (e.g. cultural sites)?			X
Have there been any work stoppages for cultural/paleo resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on site properly managed?	X		
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place?	X		
Are contaminated soils properly managed for onsite storage or offsite disposal?	X		
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?	X		
Is construction occurring within approved hours?	X		
Are required noise control measures in place?			X

AREAS MONITORED (i.e., structure numbers, yards, or substations)

The Mesa Substation work, the stormwaterstorm water drainpipe installation, HDD work, and the Transmission Corridor work north of Potrero Grande Drive and south of Hwy 60.

DESCRIPTION OF OBSERVED ACTIVITIES (i.e., mitigation measures of particular focus or concern, construction activity, any discussions with first-party monitors or construction crews)

I arrived at the Mesa Substation site at 1130 and notified Pete Lubich (ULM Services, Inc.), but he was not onsite.

Backfilling had begun around the Senior Mechanical Electrical Equipment Room (MEER) along with the continued building construction – Photo 1. Equipment included a water truck and a large compactor.

Large metal structures were being erected in the 220Kv rack area – Photo 2. Foundation work continued with excavation and installation of forms and rebar. These excavations had wooden escape boards installed or were completely covered with black visqueen – Photo 3. Conduit continues to be installed within the rack areas – Photo 4. Boards were installed overnight as escape ramps with earthen ramps also left in the end of the trench (MM BR-10). Biological monitors checked the excavations for critters first thing in the morning; so far none have been seen any of the excavations (MM BR-1, APM-BIO-03, APM-BIO-04, APM-BIO-06, MM BR-2).

Riprap had been brought into the detention basin and weed removal will be conducted in the near future – Photo 5. Water trucks were applying water throughout the site (APM-AIR-01, MM HY-1).

Work on the storm drain near Markland is nearly complete – Photo 6. The BMPs installed along the border fence were in need of maintenance, and microtrash was scattered throughout this area – Photo 7.

The sediment was still present in the offsite drainage culvert and water had continued to be pumped into the system – Photo 8. Power Grade crews were installing the drainpipe to connect the onsite system to the pipe extending from the offsite Marketplace development – Photos 14 & 15. I recommended to foreman Willie Clark (Power Grade) that sediment-laden water should not be released into the storm drain system.

At least four new conduit vaults had been installed since my last site visit – Photo 9.

Construction was ongoing at the 66-kV and 220-kV racks – Photo 10.

Rebar installation continued in the “combo wall” foundation excavation along the southern border of the project site – Photo 11. Some of the wooden escape ramps were not installed correctly. The wood must reach the ground for animals to be able to climb up and out – Photo 12. I discussed this issue, and the sediment in the storm drain, with lead biological monitor Matt Daniele (ICF). I also asked whether there was a paleontological monitor onsite, and he confirmed that one was (Bobby Ebelhar, PaleoSolutions). Bobby was spot-checking the excavation work at the western end of the old substation – Photo 13.

A concrete washout bin located along the eastern access was full and leaking – Photo 16, likely because the Mesa Operations Building floors had recently been poured – Photo 17.

I walked the length of the telecommunications corridor north of Potrero Grande. No work was ongoing, on but conduit trenches and vaults had been poured – Photo 18. The area was in need of more effective dust control.

MITIGATION MEASURES VERIFIED (Refer to MMCRP, e.g., MM BR-9. Report only on MMs pertinent to your observations today)

All project personnel appear to have been WEAP trained (MM BR-5).
See the MMs listed in the observed activities.

RECOMMENDED FOLLOW-UP (i.e., items to check on next visit, minor issues to resolve)

Escape ramps, dust control and BMP maintenance.

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS (i.e., suggestions to improve compliance on-site, environmental observations of note)

Weed removal on the banks of the detention basin and within the telecommunications corridor south of Hwy 60.

COMPLIANCE SUMMARY

Below please describe any non-compliance issues or new biological/cultural discoveries that have occurred since your last visit. If you observe a non-compliance issue in the field, please note this on the monitoring datasheet, and for non-compliance Level 2 or 3 fill out and submit a separate Non-Compliance Report Form to E & E Compliance Manager. Inform E & E CM of any non-compliance incidents.

- New biological or cultural discovery requiring compliance with mitigation measures, permit conditions, etc. If checked, please describe discovery and documentation/verification below.
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- Non-compliance issues reported by SCE: Were there any new non-compliance issues reported by SCE monitors since your last visit? If so, describe issues and resolution and include SCE report identification number.



Date	Non-compliance issue and resolution	Relevant Mitigation Measure	NC Report #

PREVIOUS NON-COMPLIANCE ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:




REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/26/18	Mesa substation		Photo 1 – The Sr. MEER with backfill work being done around it. Photo facing south
9/26/18	Mesa substation		Photo 2 – Large metal structures being installed. Photo facing south




REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/26/18	Mesa substation		Photo 3 – Excavations for foundations continues. Photo facing south
9/26/18	Mesa substation		Photo 4 – Conduit trench near the 66Kv rack area. Photo facing south




REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/26/18	Mesa substation		Photo 5 – Riprap work looks to be done in the detention basin. Photo facing west
9/26/18	Mesa substation		Photo 6 – Drainage system work near the Markland road area. Photo facing east
9/26/18	Mesa substation		Photo 7 – BMPs and trash along the Markland road border fence.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/26/18	Mesa Substation		Photo 8 – Muddy sediment remains in the offsite drainage channel.
9/26/18	Mesa Substation		Photo 9 – Conduit vaults recently poured.
9/26/18	Mesa Substation		Photo 10 – Installation activity within the 66Kv rack area. Photo facing north



REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/26/18	Mesa Substation		<p>Photo 11 – Rebar installation for the “Combo” wall foundation continues along the southern property boundary. Photo facing east</p>
9/26/18	Mesa Substation		<p>Photo 12 – Poorly installed wooden escape ramps – they need to reach the ground.</p>
9/26/18	Mesa substation		<p>Photo 13 – Excavator removing dirt from west of the old substation. Photo facing east</p>

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/26/18	Mesa substation		Photo 14 – Storm drain installation near the Marketplace drain pipes. Photo facing east
9/26/18	Mesa Substation		Photo 15 – Storm drain work near the southeast portion of the project. Photo facing southwest
9/26/18	Mesa Substation		Photo 16 – Concrete washout bin in need of replacement. Photo facing north

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
9/26/18	Mesa Substation		Photo 17 – Mesa Operations Building work. Photo facing west
9/26/18	Mesa Substation		Photo 18 – Conduit and conduit vault installation north of Potrero Grande. Photo facing west