



November 30, 2018

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

Re: Monthly Report Summary #13 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 **October 1 to 31, 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 **October 1, 12, 19, and 25, 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 October 2018 provided a compliance summary and included a description of construction activities from October 1 to 31, 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

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

- Power Grade crews identified a small fuel spill, presumed to have come from a generator overpour. Crews promptly cleaned up the spill.

During the September 2018 reporting period, the CPUC Compliance Monitor reported the following minor compliance issues:

- On October 12, the CPUC Compliance Monitor observed that while there were a sufficient amount of wooden wildlife escape ramps installed in ongoing excavations, the ramps were installed at a very steep angle. The CPUC Compliance Monitor discussed this with a Biological Monitor, who stated that because of the steep escape ramp angle, biological monitors were carefully inspecting all trenches prior to the start of construction activities to ensure that no wildlife are trapped. Thus far, no wildlife have been observed in the identified excavations.

Noise Compliance

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

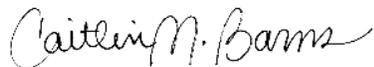
Public Concerns

There were no public concerns during October 2018.

Minor Approvals

During October 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
October 1, 12, 19, and 25, 2018



Mesa 500-kV Substation Project CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	Date:	October 1, 2018
Project Proponent:	Southern California Edison	Report #:	VS043
Lead Agency:	California Public Utilities Commission	Monitor(s):	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	AM/PM Weather:	Partly cloudy & 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 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 1330 hrs and informed Pete Lubich (ULM Services, Inc.) that I was onsite, and I observed that Wayne Woodroof (biological monitor, Noreas)(MM BR-1, APM-BIO-3, APM-BIO-064, MM BR-2) was also onsite.

Backfilling, conduit installation, and structure construction continue around the Senior Mechanical Electrical Equipment Room (MEER) – Photo 1.

Water trucks were applying water to access roads within the project site (APM-AIR-01, MM HY-1).

Installation of the above-ground structures continued within the 66-kV and 220-kV rack areas – Photos 2 and 3. Crews were also conducting work near the 66-kV rack.

There are weeds growing on the slopes of the detention basin.

Accumulated mud has been cleared out of the offsite drain. There was water in the channel, so crews are allowing clean water to flow through the drainage system – Photo 4.

Crews installed BMPs near the project inlet to the drainage channel – Photo 5, and near the upper entry location of the offsite channel – Photo 6. A Power Grade crew was in the final stages of connecting the onsite drainage system to the offsite drainage coming from the Marketplace development – Photos 10 and 11. I talked to foreman Willie Clark (Power Grade) who stated that the inlet pipes are blocked while crews conduct drainage connection work. they occasionally release the blockage to allow water to flow from the Marketplace development, through the pipes, and through and out of the project site.

Most of the “combo wall” foundation has been poured. A crew was working on the eastern end of this wall. – Photo 7.

An excavator continued to remove dirt from an area immediately west of the old substation – Photo 8.

Conduit trenching and installation was ongoing along the southeastern portion of the project site – Photo 9. Wooden wildlife escape ramps were placed in the trench at regular intervals (MM BR-10).

A “V” ditch was being cut using a small backhoe. Because this work extends towards the sensitive coastal sage scrub habitat, biological monitor Dilip Mahto was present to observe this activity – Photo 12. Lead biological monitor Matt Daniele (ICF) was onsite along with Paleo monitor Bobby Ebelhar (PaleoSolutions).

Construction of the Operations Building construction continues. The majority of the building foundation/floors have been poured – Photo 13.

I discussed site inspections with the project SWPPP consultant, Lucy Cortez-Johnson, and asked if there had been any new BMP installations.

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 "Description of Observed Activities" section.

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 Highway 60, if feasible.

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
10/1/18	Mesa substation		Photo 1 – The Senior MEER. Crews are conducting backfill work around the structure (photo depicts the first floor installation). Photo facing south.
10/1/18	Mesa substation		Photo 2 – Large metal structures being installed in the 220-kV rack area. Photo facing south

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/1/18	Mesa substation		<p>Photo 3 – Excavations continue around the 66-kV rack area. Photo facing south</p>
10/1/18	Mesa substation		<p>Photo 4 – The offsite drainage ditch has been cleared of sediment.</p>
10/1/18	Mesa substation		<p>Photo 5 – BMP installation along the southern border of the project site.</p>

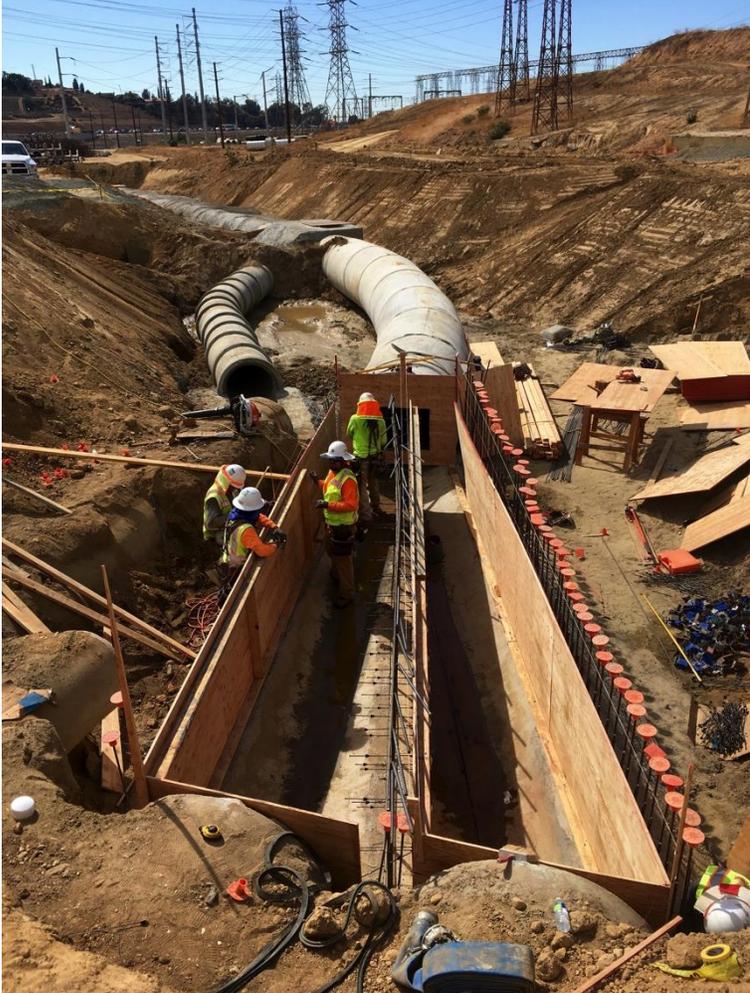
REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/1/18	Mesa substation	 A photograph showing a Best Management Practice (BMP) installation. A large, rectangular area is covered with a grey tarp, bordered by a green plastic strip. The site is on a dirt slope with some sparse vegetation and a chain-link fence in the background.	Photo 6 – BMP installations at the inlet to the offsite drainage system.
10/1/18	Mesa substation	 A photograph showing the foundation for a southern border wall. The foundation is a long, narrow concrete strip with rebar reinforcement. A wooden formwork is visible in the foreground, and a red caution tape with the word 'DANGER' is partially visible at the bottom. The background shows a dirt embankment and utility poles.	Photo 7 – Foundation for the southern border wall. Photo facing east.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/1/18	Mesa Substation		Photo 8 – Excavator removing dirt from an area west of the old substation. Photo facing east.
10/1/18	Mesa Substation		Photo 9 – Conduit installation. Photo facing east
10/1/18	Mesa Substation		Photo 10 – Storm drain work near the southeast portion of the project. Photo facing east

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/1/18	Mesa Substation		Photo 11 – Crews connecting the onsite stormdrain system to the Marketplace drain pipes. Photo facing west
10/1/18	Mesa Substation		Photo 12 – “V” ditch installation along the southeastern corner of the project site. Photo facing east

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/1/18	Mesa substation		Photo 13 – Mesa Operations Building work (building foundation visible). Photo facing south



Mesa 500-kV Substation Project CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	Date:	October 12, 2018
Project Proponent:	Southern California Edison	Report #:	VS044
Lead Agency:	California Public Utilities Commission	Monitor(s):	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	AM/PM Weather:	Clear & warm, w/ a slight breeze
E & E CM:	Caitlin Barns	Start/End time:	1045 – 1300 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 Highway 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 1045 hrs and informed Pete Lubich (ULM Services, Inc.) that I had arrived.

Backfilling around the Senior Mechanical Electrical Equipment Room (MEER) appeared complete, and gravel has been applied. Crews were in the process of installing the Senior MEER building walls – Photo 1.

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

Installation of the metal aboveground structures continued within the 220-kV rack area – Photo 2.

Some sections of the stormdrain system remain open, with earthen ramps providing escape routes. The pipe openings are covered with plywood – Photo 3.

Weed removal is occurring along the detention basin slopes – Photo 4. Biological monitor Bob Huttar (Noreas) was onsite, overseeing the weed removal activities (MM BR-1, APM-BIO-03, APM-BIO-04, APM-BIO-06, MM BR-2).

Crews continue work on the southern boundary “combo wall”; crews are drilling holes into the combo wall sections that have been poured (concrete) – Photo 5. There is also ongoing rebar work at the eastern end of the combo wall – Photo 9.

The offsite drainage channel was wet from recent flows from the Marketplace, though the channel was free of sediment – Photo 6. The final Marketplace drainage connection had been installed and slurried – Photo 11.

There were substantial conduit trenching and installation activities from the Marketplace HDD location to the 66-kV rack area – Photo 7. Wooden escape ramps were placed in the trench at regular intervals, but they were very steep (MM BR-10). I discussed this with lead monitor Matt Daniele (ICF) who agreed that the ramps were steep, so he was having his crew carefully inspect the trenches each morning; the biological monitors have not observed any animals in the trenches.

The dirt removal from the western side of the old substation site has been completed – Photo 8.

The “V” ditch near the sensitive coastal sage scrub habitat has been completed – Photo 10. The “V” ditch is being poured within the telecommunications corridor north of Potrero Grande Drive – Photo 13.

The Mesa Operations Building construction continues; walls are currently being installed – Photo 12.

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)

Steep escape ramps and BMP maintenance.

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

Weed removal within the telecommunications corridor south of Highway 60, if applicable.

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
10/12/18	Mesa substation		Photo 1 – The Senior MEER building being erected. Photo facing south.
10/12/18	Mesa substation		Photo 2 – Large metal structures being installed in the 220-kV rack area. Photo facing south.
10/12/18	Mesa substation		Photo 3 – Open portion of the storm drain system. Photo facing south.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/12/18	Mesa substation		Photo 4 – Weed removal from the detention basin. Photo facing west.
10/12/18	Mesa substation		Photo 5 – Fence installation along the southern border of the project site. Photo facing east.
10/12/18	Mesa substation		Photo 6 – The offsite drainage ditch contains some water from recent flows from the Marketplace, but has been cleared of sediment.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/12/18	Mesa substation		Photo 7 – Conduit installation. Photo facing east.
10/12/18	Mesa Substation		Photo 8 – Dirt removal has been completed west of the old substation. Photo facing northeast.
10/12/18	Mesa Substation		Photo 9 – Rebar installation for the southern border wall. Photo facing southwest.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/12/18	Mesa Substation		Photo 10 – “V” ditch completed near the coastal sage scrub ESA habitat. Photo facing west.
10/12/18	Mesa Substation		Photo 11 – Connection between the onsite storm drain system and the Marketplace storm drain pipes. Photo facing west.
10/12/18	Mesa Substation		Photo 12 – Mesa Operations Building walls being installed. Photo facing south.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/12/18	Mesa substation		Photo 13 – “V” ditch installation within the telecommunications corridor. Photo facing north.



Mesa 500-kV Substation Project CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	Date:	October 19, 2018
Project Proponent:	Southern California Edison	Report #:	VS045
Lead Agency:	California Public Utilities Commission	Monitor(s):	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	AM/PM Weather:	Clear, cool & calm
E & E CM:	Caitlin Barns	Start/End time:	0730 – 1000 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 0730 hrs and informed Pete Lubich (ULM Services, Inc.) that I was onsite. The weather was clear, cool, and calm, with predictions that it would be warm and windy later in the day.

Senior Mechanical Electrical Equipment Room (MEER) construction continues, with some foundation work being done along the MEER's western side – Photo 1, Photo 2. A generator was being utilized for some MEER activities, and it was well-contained. There will be a concrete pour at the MEER soon.

Water trucks were applying water to access roads within the project site (APM-AIR-01, MM HY-1).

Drip pans under parked equipment were adequate where needed.

There were at least 30 holes within the 220-kV rack area that were fully covered with plywood and sealed with dirt around the edges of the plywood – Photo 3.

Copper grounding wire was still being installed underground in around the 66-kV rack area – Photo 4.

Crews are conducting restoration work along the north-facing slope between the detention basin and the Markland Hotel – Photo 5. Crews were laying and keying in jute netting along the top of the slope. This area will eventually be hydroseeded. Biological monitor Bob Huttar (ICF) explained that they plan to install jute netting to and hydroseed the entire detention basin. I inquired about weed removal within the telecommunications corridor south of Highway 60, but he had no new information regarding whether it would occur (MM BR-1, APM-BIO-03, APM-BIO-04, APM-BIO-06, MM BR-2).

Conduit trenching and installation continues from the Marketplace HDD location down to the 66-kV rack area – Photo 6, Photo 8. Crews had excavated the conduit at the Marketplace bore site - Photo 9. Paleontological resources monitor Olivia Tierk (Paleo Solutions) was onsite inspecting excavation activities. She noted that most of the conduit trenching was infill material, but that crews were scheduled to conduct drilling activities later that could hit bedrock.

“Combo wall” work continues along the southern boundary; wall forms are being installed in preparation of a concrete pour – Photo 7.

The “V” ditch near the sensitive coastal sage scrub habitat is completed. Riprap has been installed at the outflow locations – Photo 10.

Operations Building construction continues; crews are installing the walls and the roof – Photo 11.

Crews are finalizing grading north of Potrero Grande Drive – Photo 12.

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 and BMP maintenance.

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

Weed removal within the telecommunications corridor south of Highway 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.
- 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.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/19/18	Mesa substation		Photo 1 – The Senior MEER with the building installation (walls and roof). Photo facing south.
10/19/18	Mesa substation		Photo 2 – Construction and concrete foundation work near the Senior MEER. Photo facing north.
10/19/18	Mesa substation		Photo 3 – The numerous open holes in and around the various rack areas are covered with plywood and sealed with dirt.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/19/18	Mesa substation		Photo 4 – Excavation for copper grounding work around the rack areas. Photo facing south.
10/19/18	Mesa substation		Photo 5 – Jute installation between the detention basin and the offsite hotel. Photo facing west.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/19/18	Mesa substation		Photo 6 – Conduit installation near the 66-kV rack area. Photo facing north.
10/19/18	Mesa substation		Photo 7 – Work on the southern boundary combo wall. Photo facing southwest.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/19/18	Mesa Substation		Photo 8 – Conduit trenching. Photo facing west.
10/19/18	Mesa Substation		Photo 9 – Exposed conduit at the Marketplace HDD site.
10/19/18	Mesa Substation		Photo 10 – Riprap placed at the end of the “V” ditch.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/19/18	Mesa Substation	 A wide-angle photograph of a construction site for the Mesa Operations Building. The structure's steel frame is visible, with several workers on the ground level. In the foreground, a red skid steer loader is parked on a dirt area. The background shows a clear blue sky and several high-voltage power line towers.	Photo 11 – Mesa Operations Building work. Photo facing west.
10/19/18	Mesa Substation	 A photograph showing a large, flat, sandy area that has been recontoured. The ground is marked with tire tracks and some construction equipment is visible in the distance. In the background, there are several high-voltage power line towers under a clear blue sky.	Photo 12 – Final recontouring work along the telecommunications corridor. Photo facing east.



Mesa 500–kV Substation Project CPUC Site Inspection Form

Project:	Mesa 500-kV Substation Project	Date:	October 25, 2018
Project Proponent:	Southern California Edison	Report #:	VS046
Lead Agency:	California Public Utilities Commission	Monitor(s):	Vince Semonsen
CPUC PM:	Lisa Orsaba, Energy Division	AM/PM Weather:	Hazy sunshine, mild temps and a slight breeze
E & E CM:	Caitlin Barns	Start/End time:	1130 – 1415 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 scrappers.	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 Highway 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 hrs and informed Pete Lubich (ULM Services, Inc.) that I was onsite.

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

Numerous concrete washout basins were located north of the Senior MEER and along the access road near the project entrance. The bins were contained and covered overnight – Photo 2.

A large, deep trench is open for Storm Drain Line D, running north/south through the rack areas. The drainage pipe is installed, with crews were preparing to slurry in the pipe – Photo 3. Some of the trench spoils from the excavation were being moved via a belly loader to another location within the project site.

Crews continue to install aboveground equipment in the 220-kV and 66-kV rack areas – Photo 4.

Water trucks were applying water on the access roads within the project site (APM-AIR-01, MM HY-1).

Crews were installing jute netting on the banks of the detention basin – Photo 5. The north-facing slope near the Markland Hotel (offsite) is fully covered with jute netting; crews are installing wattles within this area (both jute and wattles are installed correctly) – Photo 6. I discussed the project conditions with biological monitor Wayne Woodroof (MM BR-1, APM-BIO-03, APM-BIO-04, APM-BIO-06, MM BR-2).

A portion of the “combo wall” along the southern boundary has been poured, and crews continue drilling holes in the wall foundation – Photo 7.

Conduit trenching and installation continues from the Marketplace HDD location down to the East Markland Drive egress area – Photo 8. I emphasized the need for thorough morning trench inspections through such a long trench to lead biological monitor Matt Daniele (ICF) and onsite bio monitor Angela Johnson (Kidd Biological).

A bulldozer was track rolling the slope immediately south of the old substation site – Photo 10.

Operations Building construction (wall and roof installation) continues – Photo 11.

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 and BMP maintenance.

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

Weed removal within the telecommunications corridor south of Highway 60, if applicable.

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.

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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
10/25/18	Mesa substation		Photo 1 – The Senior MEER roof being installed. Photo facing south
10/25/18	Mesa substation		Photo 2 – Concrete washout bins. Photo facing east
10/25/18	Mesa substation		Photo 3 – Storm Drain Line D being installed through the project site. Photo facing south.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/25/18	Mesa substation		Photo 4 – Installation of above ground equipment within the rack areas. Photo facing south
10/25/18	Mesa substation		Photo 5 – Jute netting installed along the detention basin slopes. Photo facing south
10/25/18	Mesa substation		Photo 6 – Straw wattles being installed over the jute netting near the Markland Hotel. Photo facing west

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/25/18	Mesa substation		Photo 7 – A concrete pour as part of southern boundary “combo wall” installation. Photo facing east.
10/25/18	Mesa Substation		Photo 8 – Conduit trenching and installation. Photo facing south
10/25/18	Mesa Substation		Photo 9 – Crew drilling the combo wall foundation. Photo facing west.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
10/25/18	Mesa Substation	 A yellow dozer is shown working on a large, reddish-brown earthen slope. The dozer is positioned on the slope, facing towards the right. In the background, there are power lines and a fence, indicating a construction site for a substation.	Photo 10 – A dozer track rolling the earthen slope immediately south of the old substation site. Photo facing north
10/25/18	Mesa Substation	 The image shows the steel framework for a large building under construction. The structure consists of a grid of steel beams forming the floor and walls. In the background, several high-voltage power line towers are visible against a clear sky. The ground in the foreground is dirt and construction equipment.	Photo 11 - Operations Building work. Photo facing west.