



Eden Nguyen Kilburg
Environmental Project Manager
8315 Century Park Ct.
San Diego, California 92123
(858) 637-3716 office
ENguyen@semprautilities.com

July 25, 2019

Ms. Patricia Kelly
Mr. Andrew Barnsdale
Project Managers
California Public Utilities Commission
505 Van Ness Avenue, 4th Floor
San Francisco, CA 94102

RE: Notice to Proceed (NTP) Request to Construct the Artesian 230kV Substation Expansion Project, San Diego, California

Dear Ms. Kelly and Mr. Barnsdale:

On July 11, 2019, the California Public Utilities Commission (CPUC) voted to grant the San Diego Gas & Electric Company (SDG&E) a Permit to Construct (Decision D.19-07-007)¹ for the Artesian 230kV Substation Expansion Project (Project) contingent upon implementation of the Mitigation Measures as included with the Final Decision. SDG&E is formally requesting a Notice to Proceed (NTP) from the CPUC to begin construction of the Project as summarized herein and described in detail in the Final Initial Study and Mitigated Negative Declaration (IS/MND) prepared for the Project by the CPUC (State Clearinghouse (SCH) No. 2018101027, March 2019)².

Location of Activities Included within the NTP Request

The Project components are located between Rancho Santa Fe (to the west) and Poway (to the southeast), in the western portion of San Diego County, with elements located within both the City of San Diego and unincorporated County of San Diego, California. The Project (69kV reconductor) route (approximately 2.2 miles) traverses both developed residential and commercial areas. The Project would involve facilities located within existing rights of way (ROW), franchise position (city/county roadways), and SDG&E fee-owned property. Please refer to the attached Project Vicinity Map and Overview Map (see Attachment A – NTP Figures). Also refer to the detailed route map included as Figure 2-5 within the Final IS/MND.

¹ <http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M309/K727/309727249.PDF>

² https://www.cpuc.ca.gov/environment/info/esa/artesian/pdf/SDGE_Artesian_FMND_031919.pdf and https://www.cpuc.ca.gov/environment/info/esa/artesian/pdf/SDGE_ArtesianFMND_Appendices_031519.pdf

Description of Activities Included within the NTP Request

The Project includes the following main components:

- Establish and operate one dedicated temporary material storage and staging yard located on private property (Carmel Valley Road Staging Yard);
- Use of two existing material storage yards owned by SDG&E (Kearny Mesa Yard and Northeast Annex Yard);
- Within SDG&E's existing property, expand and rebuild the Artesian Substation to include a new 230kV substation yard and additional 69kV connections;
- Loop in existing 230kV transmission line into the new 230kV substation yard at Artesian Substation.
- New 69kV and 12kV underground getaways at the Artesian Substation.
- Expansion of the existing retention basin located at the Artesian Substation site.
- Minor modifications at the existing Bernardo and Rancho Carmel Substations within the existing substation footprints;
- Reconductor an existing double-circuit 69kV power line located between the Artesian and Bernardo Substations, including the replacement of existing wood pole structures with new steel pole structures as needed, and removal of certain existing pole structures from service.

Detailed descriptions of construction methods and procedures are provided in the Final IS/MND, in Appendix A, Section 2 (Project Description).

Project Updates

During finalization of the lease for use of the Carmel Valley Road Staging Yard, SDG&E negotiated the final boundary of the staging yard (approximately 5 acres) within the larger property boundary (approximately 25 acres). NTP Figure 3, in Attachment A, depicts the final staging yard boundary. While it represents an update from the Final IS/MND, the final staging yard boundary is consistent with the Final IS/MND as the size and general location (within the 25-acre parcel) of the final staging yard was anticipated during CEQA review (refer to Final IS/MND Section 2.6.1.1 and Figure 2-5h). The main modification is along the south-western corner of the staging yard, where space has been provided to allow the property owner access to the remainder of the 25-acre property while the staging yard is active and fencing is in place.

Schedule of Activities Included within the NTP Request

Construction is expected to last approximately 19 months from mobilization through site restoration and clean-up, beginning in August 2019 and ending in first quarter 2021. Detailed construction phasing and sequencing was described in detail and analyzed in the Final IS/MND. Construction sequencing is anticipated to match that described in the Final IS/MND (refer to Table 2-6A). Construction activities will begin with three major activities: set-up and use of the Carmel Valley Road Staging Yard (including fencing and BMP installation); Construction Mobilization (including material and equipment deliveries); and Construction of the 69/12kV substation yard (i.e., the eastern parcel of the Artesian Substation Site).

Pre-construction Document Approvals Required for NTP

As outlined within the final Mitigation Measures (MMs) (refer to Final Decision), SDG&E must submit certain documentation and, in certain cases, obtain CPUC approval prior to starting certain construction activities (i.e., prior to issuance of applicable NTPs). For the purposes of compliance with Applicant Proposed Measures (APMs) and MMs, construction is defined as localized, direct ground-breaking or disturbance of existing features or the delivery of construction materials or equipment to a Project location. Construction activities include installation of security (e.g. chain-link) fencing, stormwater BMPs and/or demolition/removal of similar features. These activities will not be conducted prior to issuance of an NTP. Survey-related work (environmental or civil), including staking and environmental sensitive area marking or flagging, do not constitute construction activities, and therefore can (and in some cases must) occur prior to the NTP.

Because this NTP request includes the entire permitted Project, four pre-construction submittal documents must be completed (and approved where required) prior to issuance of this NTP. Attachment B contains a listing of the four required pre-construction submittals, how SDG&E has fulfilled each requirement, and all applicable submittal and approval dates.

Conformance to Pre-Construction and Pre-Activity Requirements

As outlined within the final Project MMs (refer to Final Decision), SDG&E must perform certain actions that are required to be completed prior to construction in one or more area, but that do not have specific approval, reporting or submittal aspects to the required actions. Some of these requirements apply to all components of the Project (i.e., Pre-Construction Requirements) while others are only applicable to a certain activity type or location (i.e., Pre-Activity Requirements).

With respect to the Pre-Construction and Pre-Activity requirements, SDG&E has or shall complete all Pre-Construction and Pre-Activity Requirements as outline in Attachment C (Pre-Construction Requirements and Permits). No construction activities will commence prior to completion of the applicable Pre-Construction and Pre-Activity Requirements.

MMRCP Compliance Implementation

During construction and post construction of the Project components described above, SDG&E will implement all applicable APMs and MMs as identified in the Final Decision, including new and ongoing Pre-Activity Requirements. A summary of the implementation actions for all APMs and MMs is provided in Attachment D, MMRCP Compliance Implementation Matrix. Specific implementation actions are sorted by pre-construction, during construction, and post-construction for each specific measure.

Project Permits and Approvals from other Agencies

In addition to the PTC and associated NTP issued by the CPUC, the Project must obtain other permits and/or approvals from agencies having ministerial authority over discrete aspects or locations of the Project. The permits required prior to construction of one or more aspect of Project construction, as required by applicable local, state, and federal regulations are listed in Attachment C, Pre-Construction Requirements and Permits. The attachment contains a summary of the required permits and the anticipated procurement schedule. As required by Section 5.2 of the Draft IS/MND, SDG&E will submit

verification of each permit or approval granted by another state, federal, or local agency prior to starting the activities for which such permit was issued.

Request for NTP

SDG&E respectfully requests authorization of this NTP for the Artesian 230kV Substation Expansion Project by August 8, 2019. SDG&E has tentatively scheduled its Worker Environmental Awareness Program training on August 23, 2019. Should you have any questions or need additional information, please do not hesitate to contact me at (858) 637-3716 or by email at ENguyen@semprautilities.com.

Sincerely,

Eden Nguyen Kilburg

Eden Nguyen Kilburg
Environmental Project Manager
San Diego Gas & Electric Company

Attachment A: NTP Figures

Attachment B: Pre-construction Document Approvals Required for NTP

Attachment C: Pre-Construction Requirements and Permits

Attachment D: MMRCF Compliance Implementation Matrix

cc: Irina Petersen, SDG&E Project Manager
Julie Watson, ESA

ATTACHMENT A

NTP Figures



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Artesian 230kV Substation Expansion Project NTP Figure 1 Vicinity Map

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- Proposed Project Substation
- Proposed Project Power Lines¹
- Staging & Storage Yard
- Incorporated Cities of San Diego County

¹ New 230kV connection at Artesian and ~500-foot 69kV reconductor at Rancho Carmel are not shown due to scale.



A Sempra Energy utility



0 1.5 3 Miles



Artesian 230kV Substation Expansion Project

Overview Map

NTP Figure 2

- Project Features**
- Project Structure
 - Foundation Cable Pole (New)
 - Overhead Work Only (Existing Structure)
 - Pier Foundation Pole (New)
 - Remove From Service (Existing Structure)
 - Overhead Work; New Underground Cable
 - Overhead 69kV Power Line (Reconductor)
 - Overhead 69kV Power Line to be Removed
 - Overhead 230kV Transmission Line Loop-in (New)
 - Underground Distribution Line (New)
 - Underground Distribution Line to be Removed
 - Underground Power Line (New Cable in New Trench)
 - Underground Power Line (New Cable in Existing Conduit)
 - Stringing / Pulling Site
 - Work / Staging Area
 - Other Project Areas
 - Artesian Expansion
 - Municipal Boundary

* Guard Structures, Access roads, Distribution Features, and Vaults not shown

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7/29/2016

0 500 1,000 1,500 Feet



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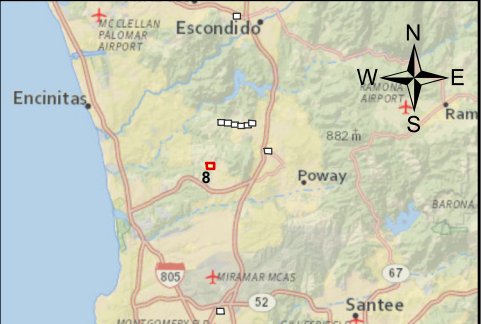
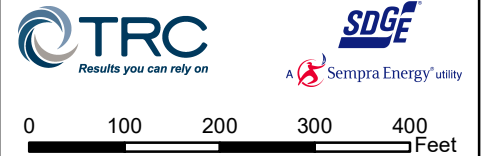
Artesian 230kV Substation
Expansion Project

NTP Figure 3
Staging Yard Map

Legend

- Property Owner Access
- Staging Yard Boundary

SDG&E is providing this map with the understanding that the map is not survey grade.



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ATTACHMENT B
Pre-Construction Document Approvals Required for NTP

Pre-Construction Document Approvals Required for NTP

Measure(s)	Submittal Document	Applicable Project Component(s)	Anticipated/ Actual Submittal and Approval Date(s)	Current Status
MM HAZ-2	Construction Fire Prevention Plan (CFPP)	All	The Draft CFPP submitted to CPUC on April 30, 2019. Revised Draft CFPP was submitted to CPUC on May 9, 2019. Supplemental information submitted to CPUC on July 8.	On 06/11/2019, SDG&E representative met with San Diego Fire & Rescue (SDFR) and addressed CPUC's comment. SDFR confirmed that there is no concern regarding the proposed CFPP for the Artesian Substation Project.
MM AIR-1; MM HAZ-1	Diesel Equipment Tracking Plan (DETP)	Artesian Substation	The Draft DETP was submitted to CPUC on May 9, 2019.	CPUC had no comments on the Draft DETP submitted May 9, 2019.
MM NV-2	Construction Noise Reduction Plan (CNRP)	Construction within 100 feet of noise-sensitive receptors.	The Draft CNRP was submitted to CPUC on June 12, 2019.	The CPUC is currently reviewing the Draft CNRP.
MM US-1	Preliminary Construction and Demolition Debris Register (CDDR)	All	The Preliminary CDDR was submitted to the CPUC on July 22, 2019	The Preliminary CDDR is submittal only, and therefore this requirement is Complete.

ATTACHMENT C

Pre-Construction Requirements and Permits

Pre-Construction Requirements

Measure(s)	Requirement(s)	Applicable Project Component(s)	Timing Requirements	Current Status
APM BIO-2; APM BIO-4; APM BIO-5; MM BIO-1; MM BIO-3	Pre-Activity Survey Report (PSR)	All	Must be completed prior to any construction.	The PSR report was submitted to CDFW and USFWS in April 2019. The wildlife agencies had no comments, and the PSR is therefore considered complete. SDG&E will perform a verification survey within 30 days of the start of construction activities to observe and describe any changes that may have occurred since completion of the PSR.
APM BIO-1	Burrowing Owl (BUOW) Surveys	Carmel Valley Road Staging Yard	Must be completed prior to set-up and use of the Carmel Valley Road Staging Yard.	Pending, not started. BUOW Surveys to be conducted ~14 days prior to construction starting at the Carmel Valley Road Staging Yard.
APM BIO-6; MM CUL-2; MM CUL-7; MM HAZ-2	Worker Environmental Awareness Training	All	Must be completed prior to any construction. All Project Personnel who will be onsite at any construction area or staging yard must complete the training.	SDG&E is currently developing the Worker Environmental Awareness Training materials/presentation. Initial (supervisor) training to be completed ~ 1-2 weeks prior to construction. Construction will not commence until the initial training has been completed. Additional trainings (worker and/or supervisor) will be conducted on an as-needed basis.
MM AIR-1; MM HAZ-1	Initial Diesel Equipment Register	Artesian Substation	Prior to the start of construction at the Artesian Substation site.	SDG&E will develop and submit the equipment list to CPUC prior to construction at Artesian Substation, pursuant to MM AIR-1 and the DETP.

Pre-Construction Requirements

Measure(s)	Requirement(s)	Applicable Project Component(s)	Timing Requirements	Current Status
MM NV-2	Notify Residents within 100 feet of construction.	Residents or property owners of sensitive noise receptors.	Must be completed prior to construction within 100 feet of noise sensitive receptors.	Notices will be sent approximately 1 week to 10 days prior to the start of applicable construction activities. Additional notices will be sent, if needed, when construction begins in new areas.
APM BIO-3	Nesting Bird Surveys	All	During breeding season, nesting bird surveys must be completed prior to construction activities in any area with suitable nesting habitat. Nesting bird surveys will be completed throughout construction, prior to initiation of construction activities within new areas.	The initial nesting bird surveys will be conducted ~5-7 days prior to construction. Additional nesting bird surveys will be conducted throughout construction, as needed, where construction moves into new, previously un-surveyed areas.
APM BIO-7	Pre-Construction Biological Resources Surveys	All	Pre-Construction biological resource surveys must be completed for all construction locations, to be performed immediately prior to construction.	The initial pre-construction surveys will be conducted immediately prior to activities at construction work areas. Additional surveys will be conducted in new work areas, as needed, prior to commencement of construction activities in those areas.

Table Notes:

- * Some pre-construction requirements may need to be satisfied individually for different Project components. Therefore, multiple compliance actions may be needed to satisfy a specific requirement (APM or MM) for the entire Project.

PERMIT ACQUISITION SCHEDULE

Permit/ Approval	Permit Trigger	Applicable Project Component(s)	Anticipated Process	Permit Timing
City of San Diego				
Grading Permit	Grading and site development within the City.	Artesian Substation	SDG&E to Obtain Permit	July or August 2019 ¹
Wall (Structural) Permit	Construction of retaining and perimeter wall(s) ²	Artesian Substation	SDG&E to Obtain Permit	July or August 2019 ¹
Wall (Structural) Permit	Construction of soil nail retaining wall ³	Artesian Substation	SDG&E to Obtain Permit	July or August 2019 ¹
Encroachment Permits & Traffic Control Plans	Work within City ROW, including underground getaways and overhead stringing.	Artesian Substation 12kV & 69kV getaways, Stringing of OH conductor	SDG&E to Obtain Permit	Pull individual sections as needed
County of San Diego				
Encroachment Permits & Traffic Control Plans	Work within County ROW, including underground getaways and overhead stringing.	Bernardo Substation 69kV getaways, Stringing of OH conductor	SDG&E to Obtain Permit	Pull individual sections as needed
Caltrans				
Oversize Load Permit	Delivery of oversized loads such as the 230/69kV transformers.	Artesian Substation	SDG&E to Obtain Permit	~2020 – prior to delivery of transformers
California Department of Fish and Wildlife and U.S. Fish and Wildlife Service				
Natural Communities Conservation Plan & 5-Year Low Effect Habitat Conservation Plan	Impacts to sensitive vegetation communities, species and habitat	All Project components affecting natural areas.	Use of SDG&E's 5-Year LE/HCP	PSR submitted to CDFW & USFWS in April 2019

¹ The City of San Diego has completed its review of the Project grading plans and wall design drawings. The City is ready to issue the grading and wall permits; however, the City will not actually issue the permits until within approximately 1 month of construction start. This is the City's standard process. Copies of these permits will be submitted to CPUC prior to initiation of grading activities at the Artesian Substation site.

² This permit application included the Substation perimeter walls, a retaining wall along (below) the southern perimeter wall, and a small retaining wall inside of the substation perimeter walls, near the 230kV transformer.

³ This permit will include the soil nail retaining wall that will support the slope to the south of the Substation perimeter.

PERMIT ACQUISITION SCHEDULE

Permit/ Approval	Permit Trigger	Applicable Project Component(s)	Anticipated Process	Permit Timing
State Water Resources Control Board				
Construction General Permit Coverage (develop & implement SWPPP)	Ground disturbance of one or more acres of soil	All Project components where soil disturbance is anticipated	Use of Construction General Permit and Preparation of SWPPP	Project SWPPP is Active ⁴
Water Reclamation and Recycling (WRR) Permit	Use of recycled water	All project components	Use SDG&E's WRR Permit ⁵	August 2019

⁴ SDG&E submitted the Notice of Intent (NOI) and Project SWPPP to the Storm Water Multiple Application and Report Tracking System (SMARTS) on June 18, 2018. The SWPPP is active and the Project WDID number is 9 37C383684.

⁵ SDG&E is currently obtaining final approvals for its WRR Permit. If Project construction is set to begin prior to SDG&E's WRR Permit being finalized, SDG&E's use of recycled water will occur under the water supplier's existing WRR Permit (Olivenhain Municipal Water District). Use of recycled water would transfer to SDG&E's WRR permit once it is active.

ATTACHMENT D

MMRCP Compliance Implementation Matrix



MMRCP COMPLIANCE IMPLEMENTATION MATRIX

**Compliance Action
Timing Key:**

Pre-Construction*

During Construction*

Post Construction*

Req. Number	Measure and Requirement(s)	Applicable Project Component(s)	SDG&E Compliance Action(s) [black = not started; blue = underway; green = complete]
<p>* Note: “Construction” is defined as the point in time at which localized ground-breaking occurs at a given location. “Prior to construction” refers to before ground-breaking occurs at an applicable area and is not necessarily associated with the issuance of a Notice to Proceed. Spatial phasing of project construction is anticipated given the linear nature of the project and its overall length. In such situations, applicable spatially appropriate “pre-construction” mitigation actions are expected to be phased to occur ahead of localized ground-breaking in order to comply with required mitigation action timeframes (i.e., so many days before construction) as specified in the mitigation measures below. “Following construction” is defined as the point when construction activity is concluded over the whole of the project.</p>			
AIR QUALITY			
MM AIR-1	Use of Tier-4 Engines SDG&E (and/or its construction contractor(s)) shall ensure that at least 89 percent of all diesel-powered equipment use (tracked as horse-power hours) during construction activities at Artesian Substation (defined as construction Phases 2, 3, 4, 5, 6, 8, 9, 10, 11, 17, 18, 19, and 20) is from equipment that meet USEPA-certified Tier 4 standards, the highest USEPA-certified tiered emission standards, or are otherwise equipped with Level 3 diesel particulate filters (DPFs). If DPF retrofits are not used as part of the construction fleet, a minimum of 83 percent of the equipment use hours shall be from equipment that are certified Tier 4. An initial listing that identifies each off-road unit's certified tier specification and/or diesel particulate filter status to be operated at the Artesian Substation shall be submitted to the CPUC for review and approval prior to commencement of construction activities at the Artesian Substation site. Construction activities at the Artesian Substation site shall not commence until the equipment listing has been approved by the CPUC. As SDG&E requires new or replacement construction equipment at the Artesian Substation site, SDG&E shall submit verification of the certified engine tier or Level 3 DPF retrofit prior to use on the Project. Prior to the commencement of construction, SDG&E and CPUC shall develop a diesel-powered equipment use hours tracking tool and procedure. The tracking tool shall be utilized by SDG&E (and/or its construction contractor(s)) to keep track of the daily equipment use hours of all diesel-powered equipment. If all diesel-powered equipment is either certified Tier 4 or is retrofitted with a Level 3 DPF, the tracking tool would not be required. The tracking tool shall be maintained by SDG&E and tracking updates shall be submitted to the CPUC on a weekly basis to track the Project's compliance. The updated tracking tool shall be submitted to the CPUC no later than the Wednesday of the following week.	All construction activities at the Artesian Substation.	<p>SDG&E and CPUC will develop a diesel-powered equipment use hours tracking tool and procedure (refer to Diesel Equipment Tracking Plan or DETP). The tracking tool shall be utilized by SDG&E (and/or its construction contractor(s)) to keep track of the daily equipment use hours of all diesel-powered equipment.</p> <p>SDG&E will provide CPUC an initial list of diesel-powered construction equipment to be used at the Artesian Substation that identifies each unit's certified tier specification and/or diesel particulate filter status.</p> <p>SDG&E will provide to CPUC verification of the certified engine tier or Level 3 DPF retrofit for all equipment used at the Artesian Substation site. This information will be provided to CPUC prior to the equipment being operated at the Artesian Substation site.</p> <p>SDG&E will maintain a running list of all diesel-powered equipment used at the Artesian Substation site.</p> <p>If SDG&E utilizes diesel-powered equipment that is not either certified Tier 4 or retrofitted with a Level 3 DPF, SDG&E will implement the diesel equipment usage tracking procedures in the DETP.</p> <p>As prescribed within the DETP, SDG&E will submit the tracking tool to the CPUC on a weekly basis, no later than Wednesday, updated through the previous week.</p> <p>SDG&E will include a summary of any diesel equipment tracking within the Quarterly Compliance Reports that will be submitted to the CPUC.</p> <p>None. Once construction is complete, no further compliance actions will be required.</p>
BIOLOGICAL RESOURCES			
APM BIO-1	If work is scheduled to occur within suitable burrowing owl habitat (as determined in the Biological Technical Report), burrowing owl surveys will be conducted prior to construction consistent with the Take Avoidance Surveys described in the 2012 Staff Report on Burrowing Owl Mitigation. If burrowing owls are identified within approximately 150 meters (492 feet) of the proposed work area, SDG&E will implement the recommendations of said staff report to avoid impacts to burrowing owl.	Carmel Valley Road Staging Yard	<p>SDG&E will conduct BUOW surveys at the Carmel Valley Road Staging Yard prior to conducting construction activities at the yard. The BUOW surveys will be conducted no less than 14 days prior to initiation of ground disturbance at the Yard.</p> <p>If BUOW are observed within 150 meters of Project construction activities, SDG&E will implement any specific mitigation measures provided in the CDFW 2012 Staff Report during construction.</p> <p>SDG&E will provide CPUC with the results of the BUOW survey prior to initiation of construction activities at the Carmel Valley Road Staging Yard.</p> <p>If BUOW are observed within 150 meters of Project construction activities, SDG&E will implement the specific mitigation measures provided in the CDFW 2012 Staff Report during construction.</p> <p>SDG&E will include a summary of any BUOW compliance actions conducted within the Quarterly Compliance Reports that will be submitted to the CPUC.</p> <p>None. Once construction is complete, no further compliance actions will be required.</p>

MMRCP COMPLIANCE IMPLEMENTATION MATRIX

Compliance Action
Timing Key:

Pre-Construction*	During Construction*	Post Construction*
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Req. Number	Measure and Requirement(s)	Applicable Project Component(s)	SDG&E Compliance Action(s) [black = not started; blue = underway; green = complete]
APM BIO-2	SDG&E will compensate for temporary and permanent impacts according to Table 7.4 of the SDG&E NCCP at a 2:1 ratio for permanent impacts, or at a mitigation ratio consistent with the surrounding Subarea Plans (SAP) if the SDG&E NCCP is not used.	All components with impacts to sensitive habitat	SDG&E will prepare a Pre-construction Survey Report (PSR) prior to commencement of construction. The PSR will outline the required compensatory mitigation based on the final engineering for the Project and consistent with the SDG&E 5 Year LE-HCP and NCCP. The PSR will be submitted to the USFWS and CDFW (i.e., the Wildlife Agencies) for review and comment. SDG&E will make any revisions necessary to respond to any comments received.
			SDG&E biological resource monitors will monitor construction activities to verify that construction activities remain within approved work areas.
			If needed, SDG&E will prepare a Post Construction Report (PCR) to verify that the mitigation totals included in the PSR are sufficient to mitigate the Project's final impacts.
APM BIO-3	Vegetation clearance in habitat for listed bird species will be conducted outside the nesting season (September 1 through January 31). If construction occurs during the nesting or breeding season for other birds, SDG&E will perform a site survey in the area where the work is to occur. This survey will be performed to determine the presence or absence of nesting birds. If an active nest is identified, (i.e., containing eggs or young) a suitable construction buffer will be implemented to ensure that the birds are not adversely affected. If the birds are federal or state-listed species, SDG&E will consult with the USFWS and CDFW as necessary. Monitoring of the nest will continue until the birds have fledged or construction is no longer occurring on site.	Any project construction activities conducted during the breeding season (February through August)	During breeding season, SDG&E will complete nesting bird surveys prior to commencing work in a new area, where potential nesting bird habitat is present.
			SDG&E will conduct vegetation removal activities within habitat for listed bird species outside of the bird breeding season. All such vegetation clearing activities will be monitored by a biological monitor. If nesting birds are identified, the avian biologist will determine a suitable avoidance buffer. SDG&E will observe said avoidance buffers, and biological monitors will monitor identified nest areas located near construction activities. SDG&E daily monitoring notes will be recorded until the birds have fledged and the nest is no longer active. Reports will describe the effectiveness of the avoidance buffer and will recommend additional mitigation measures in the event the birds are showing signs of stress. SDG&E will monitor nests until the birds have fledged or construction is no longer occurring on site. If the nesting bird is a federal or state-listed species, SDG&E will prepare a memo describing the location of the nest in relation to the work area, description of the proposed work, current disturbances in area, and specific avoidance measures to protect the nesting birds. SDG&E will include a summary of nesting bird compliance actions conducted within the Quarterly Compliance Reports that will be submitted to the CPUC.
			None. Once construction is complete, no further compliance actions will be required.
APM BIO-4	SDG&E will complete a PSR for the entire Project area prior to construction to verify the location of rare plants. The plant survey for the PSR will be conducted during the appropriate blooming period for <i>Brodiaea filifolia</i> .	All project components	The SDG&E prepared PSR will include focused rare plant surveys within suitable habitat, during the appropriate survey period. The PSR will identify any rare plants and prescribe avoidance measures, as appropriate.
			SDG&E will implement any required NCCP operation protocols relating to rare plants, as prescribed in the PSR. SDG&E biological resource monitors will monitor construction activities to verify that construction activities remain within approved work areas.
			None. Once construction is complete, no further compliance actions will be required.
APM BIO-5	SDG&E will complete a PSR for the entire Project area prior to construction to verify the location of sensitive biological resources.	All project components	Refer to compliance actions listed above for APMs BIO-2 and BIO-4.
			Refer to compliance actions listed above for APMs BIO-2 and BIO-4.
			Refer to compliance actions listed above for APMs BIO-2 and BIO-4.

MMRCP COMPLIANCE IMPLEMENTATION MATRIX

Compliance Action
Timing Key:

Pre-Construction*	During Construction*	Post Construction*
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Req. Number	Measure and Requirement(s)	Applicable Project Component(s)	SDG&E Compliance Action(s) [black = not started; blue = underway; green = complete]
APM BIO-6	Prior to the start of construction, SDG&E will conduct training of all project personnel regarding the appropriate work practices necessary to effectively implement the Proposed Project APMs, standard operating procedures, and to comply with the applicable environmental laws and regulations.	All project components	SDG&E will prepare the required Environmental Awareness Program (EAP) Training and will train all project personnel prior to working at a Project construction site. All trained Project personnel will attest (sign in) to completing the EAP Training and will receive a hard hat decal denoting completion of the training.
			SDG&E will train project personnel as needed throughout project construction as a tailgate training during monitoring efforts.
			SDG&E will include a summary of EAP training activities within the Quarterly Compliance Reports, including a running total of personnel trained and copies of the training sing-in sheets.
			None. Once construction is complete, no further compliance actions will be required.
APM BIO-7	A biological monitor will be present during ground-disturbing and vegetation removal activities located within environmentally sensitive areas. Immediately prior to initial ground-disturbing activities and/or vegetation removal, the biological monitor will survey the site to ensure that no sensitive species will be impacted.	All project components	SDG&E will have a biologist on-site to conduct pre-construction clearance surveys immediately prior to construction in a new construction area. If a sensitive resource is identified, the monitor will flag sensitive resources for avoidance and/or recommend measures to avoid impacts to the sensitive resources. The sensitive resource and protection measures will be described in daily monitoring reports and will be communicated to the environmental and construction teams.
			SDG&E will have a biologist on-site to supervise ground-disturbing and vegetation removal activities located within environmentally sensitive areas.
			SDG&E will include a summary of biological monitoring activities within the Quarterly Compliance Reports that will be submitted to the CPUC.
			None. Once construction is complete, no further compliance actions will be required.
APM BIO-8	If modifications to the pole work areas are required to conduct the work, SDG&E's on-site environmental monitors, as appropriate, will assist construction crews in the field to locate pole work areas that avoid and minimize impacts to sensitive environmental resources.	All project components	None.
			SDG&E will have biological monitors on-site to assist (as appropriate) construction crews in locating work areas that avoid and minimize impacts sensitive environmental resources.
			None. Once construction is complete, no further compliance actions will be required.
MM BIO-1	Plant Surveys. Consistent with the new 5-Year LE-HCP and the existing SDG&E Subregional NCCP, SDG&E will complete a PSR for the entire Project area prior to construction to verify the location of rare plants. Based on the PSR findings, to the extent feasible, the final project design shall avoid and minimize impacts on known special-status plant populations within and adjacent to the construction footprints, with complete avoidance of any non-covered federal or State-listed plant species. SDG&E and/or its contractors shall design facilities to avoid sensitive plant populations whenever possible, shall install exclusion fencing around sensitive plant populations within close proximity to proposed work areas and access routes with as large a buffer as possible to minimize the potential for direct and indirect impacts. Any special status plants that cannot be avoided will be mitigated under the terms of the PSR. Mitigation shall include relocation of plants and implementation of a Restoration and Mitigation Plan (see MM BIO-2).	All project components	Refer to compliance actions listed above for APMs BIO-2 and BIO-4.
			Refer to compliance actions listed above for APMs BIO-2 and BIO-4.
			Refer to compliance actions listed above for APMs BIO-2 and BIO-4.

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MM BIO-2	Plant Salvage and Replanting. Where avoidance of non-listed plant species is not feasible even with the implementation of minimization efforts described under MM BIO-1, SDG&E and/or its contractors shall compensate for any loss through plant salvage and replanting, as follows: <ul style="list-style-type: none">A qualified ecologist shall develop a Restoration and Mitigation Plan according to CDFW guidelines and in coordination with CDFW. At a minimum, the plan shall include collection of complete plants or reproductive structures (as appropriate) from affected plants, a full description of microhabitat conditions necessary for each affected species, seed germination requirements, proposed restoration techniques for temporarily disturbed occurrences, an assessment of potential transplant and enhancement sites, a description of performance criteria, and a monitoring program to follow the progress of transplanted individuals.	Required if impacts to rare plants cannot be avoided	If avoidance of rare plants is not possible, SDG&E will prepare a Restoration and Mitigation Plan according to CDFW guidelines and in coordination with CDFW. The Restoration and Mitigation Plan shall include methods for collection of plants, the specific habitat requirements for the species, methods of transplant, location of transplant sites, restoration techniques, success criteria, and monitoring requirements.
			SDG&E will implement the Restoration and Mitigation Plan during construction activities.
			SDG&E will implement any post-construction monitoring and reporting procedures prescribed within the Restoration and Mitigation Plan.
MM BIO-3	QCB compensation. Where avoidance of suitable habitat for QCB is not feasible, SDG&E shall compensate for the loss through habitat-based compensatory mitigation per the SDG&E Low-Effect Habitat Conservation Plan for the Quino Checkerspot Butterfly.	Construction activities within suitable QCB habitat.	As discussed above within the compliance actions for APMs BIO-2 and BIO-4, SDG&E will prepare a PSR that will assess and quantify all impacts to biological resources. The PSR will include a quantification of impacts to QCB habitat and a description of the required QCB compensatory mitigation.
			SDG&E will have a biologist on-site to supervise ground-disturbing and vegetation removal activities located within QCB habitat areas. SDG&E will include a summary of QCB mitigation activities within the Quarterly Compliance Reports that will be submitted to the CPUC.
			SDG&E will compensate for loss of suitable habitat for QCB through habitat-based mitigation, outlined in the LE HCP for the Quino Checkerspot Butterfly.
CULTURAL RESOURCES			
APM CUL-1	Native American monitoring may be implemented if substation, transmission, power or distribution line construction has the potential to impact identified and mapped traditional locations or places. The role of the Native American monitor shall be to represent tribal concerns and communicate with the tribal council. Appropriate representatives will be identified based on the location of the identified traditional location or place.	All project components	None.
			If needed, SDG&E will have a Native American Monitor on-site to represent tribal concerns and communicate with the tribal council. SDG&E will coordinate with the Environmental Team regarding any issues communicated with the tribal council. SDG&E will include a summary of Native American monitoring activities within the Quarterly Compliance Reports that will be submitted to the CPUC.
			None. Once construction is complete, no further compliance actions will be required.
MM CUL-1	Retention of Qualified Archaeologist. Prior to the start of any ground disturbing activity, a qualified archaeologist, defined as an archaeologist meeting the Secretary of the Interior's Standards for professional archaeology (U.S. Department of the Interior, 2008) shall be retained by SDG&E to carry out all mitigation measures related to archaeological resources.	All project components	SDG&E will retain a qualified archeologist to carry out all mitigation measures related to archaeological resources.
			None.
			None.

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MM CUL-2	Pre-construction Cultural Resources Sensitivity Training. Prior to the start of any ground-disturbing activity, the qualified archaeologist shall prepare cultural resources sensitivity training materials for use during Project-wide Environmental Awareness Training (or equivalent). The cultural resources sensitivity training shall be conducted by a qualified environmental trainer (often the Lead Environmental Inspector [LEI] or equivalent position) working under the supervision of the qualified archaeologist. The qualified archaeologist shall determine and ensure the suitability of the qualified environmental trainer. The cultural resources sensitivity training shall be conducted for all construction personnel. Construction personnel will be informed of the types of archaeological resources that may be encountered, and of the proper procedures to be enacted in the event of an inadvertent discovery of archaeological resources or human remains. SDG&E shall ensure that construction personnel are made available for and attend the training and retain documentation demonstrating attendance.	All project components	SDG&E will prepare the required cultural resources sensitivity information for the EAP Training and will coordinate with the LEI or other environmental trainer to ensure the appropriate training (resources and procedures) is provided to all construction personnel. Refer to compliance actions listed above for APM BIO-6.
			Refer to compliance actions listed above for APM BIO-6.
			Refer to compliance actions listed above for APM BIO-6.
MM CUL-3	Restrictions on Work Outside of Designated Areas. Approved work areas will be established and construction crews shall be instructed to stay within the approved work areas and shall not conduct any Project-related work out side of the defined areas.	All project components	SDG&E will have environmental monitors denote approved work areas prior to construction in new areas.
			SDG&E will provide environmental monitors during construction activities to ensure construction activities occur only within approved work areas.
			None. Once construction is complete, no further compliance actions will be required.
MM CUL-4	Archaeological Monitoring. An archaeological monitor working under the supervision of the qualified archaeologist shall monitor all ground disturbing activities that occur within 100 feet of resources CA-SDI-11487, -11508, -5098, and -11744. Monitors shall have the authority to redirect work within 100 feet in the event of a discovery and provisions of MM CUL-5 shall be implemented. If ground disturbing activities are occurring simultaneously in areas located more than 500 feet apart, additional monitors shall be retained to adequately observe ground disturbing activities. The qualified archaeologist, in consultation with the CPUC and SDG&E, shall have the discretion to modify the monitoring requirements based on in-field observations of subsurface conditions. The archaeological monitor shall keep daily logs detailing the types of activities and soils observed, and any discoveries. After monitoring has been completed, the qualified archaeologist shall prepare a monitoring report that details the results of monitoring. The report shall be submitted to CPUC and SDG&E. A copy of the final report will be filed at the South Coast Information Center.	Within 100 feet of resources CA-SDI-11487, -11508, -5098, and -11744	None.
			SDG&E will have an archaeological monitor on-site working under the qualified archeologist to supervise ground-disturbing activities that occur within 100 feet of four sensitive archaeological resources (CA-SDI-11487, -11508, -5098, and -11744). The monitor will redirect construction activities in coordination with SDG&E and CPUC in the event a sensitive archeological resource is identified during ground disturbing activities. SDG&E will submit daily monitoring logs and a monitoring report to CPUC. SDG&E will include a summary of archaeological monitoring activities within the Quarterly Compliance Reports that will be submitted to the CPUC.
			Following completion of archaeological monitoring activities on the Project, SDG&E will prepare and submit an Archaeological Monitoring Report to the CPUC and the South Coast Information Center.

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MM CUL-5	Unanticipated Discoveries. In the event of the unanticipated discovery of archaeological materials all work shall immediately cease in the area (within approximately 100 feet) of the discovery until it can be evaluated by the qualified archaeologist. Construction shall not resume until the qualified archaeologist has conferred with CPUC and notified SDG&E's Cultural Resource Specialist and Environmental Project Manager regarding the significance of the resource. If it is determined that the discovered archaeological resource constitutes a historical resource or a unique archaeological resource under CEQA, avoidance and preservation in place is the preferred manner of mitigation. Preservation in place may be accomplished by, but is not limited to, avoidance, incorporating the resource into open space, capping, or deeding the site into a permanent conservation easement. In the event that preservation in place is demonstrated to be infeasible and data recovery through excavation is the only feasible mitigation available, a Cultural Resources Treatment Plan shall be prepared and implemented by the qualified archaeologist in consultation with CPUC and SDG&E that provides for the adequate recovery of the scientifically consequential information contained in the archaeological resource. The qualified archaeologist and CPUC will consult with appropriate Native American representatives in determining treatment for prehistoric or Native American resources to ensure cultural values ascribed to the resource, beyond that which is scientifically important, are considered.	Required if unanticipated cultural resources cannot be avoided	None.
			In the event of an unanticipated discovery of archaeological materials, the archaeological monitor will contact the SDG&E Cultural Resource Specialist, who will notify and confer with CPUC. If required, the qualified archeologist will prepare a Cultural Resource Treatment Plan (CRTP) in consultation with SDG&E and the CPUC. The qualified archeologist and CPUC will consult with the appropriate Native American representative regarding the identified resource to ensure the appropriate cultural values are identified in the treatment plan. SDG&E will implement the CPUC approved CRTP. SDG&E will include a summary of any compliance activities related the implementation of the CRTP within the Quarterly Compliance Reports that will be submitted to the CPUC.
			SDG&E will submit any reports that are prepared documenting implementation of the CRTP to CPUC.
MM CUL-6	Retention of Qualified Paleontologist. Prior to the start of any ground-disturbing activity, a qualified paleontologist meeting the Society for Vertebrate Paleontology's professional standards (SVP, 2010) shall be retained by SDG&E to carry out all mitigation measures related to paleontological resources.	All project components	SDG&E will retain a qualified paleontologist to carry out all mitigation measures related to paleontological resources.
			None.
			None.
MM CUL-7	Paleontological Sensitivity Training. Prior to start of any ground-disturbing activity, the qualified paleontologist shall prepare paleontological resource sensitivity training materials for use during Project-wide Environmental Awareness Program training (or equivalent). The cultural resource sensitivity training shall be conducted by a qualified environmental trainer (often the Lead Environmental Inspector [LEI] or equivalent position) working under the supervision of the qualified paleontologist. The qualified paleontologist shall determine and ensure the suitability of the qualified environmental trainer. The paleontological resources sensitivity training shall be conducted for all construction personnel. Construction personnel will be informed of the types of paleontological resources that may be encountered, and of the proper procedures to be enacted in the event of an inadvertent discovery of paleontological resources. SDG&E shall ensure that construction personnel are made available for and attend the training and retain documentation demonstrating attendance.	All project components	SDG&E will prepare the required paleontological resources sensitivity information for the EAP Training and will coordinate with the LEI or other environmental trainer to ensure the appropriate training (resources and procedures) is provided to all construction personnel. Refer to compliance actions listed above for APM BIO-6.
			Refer to compliance actions listed above for APM BIO-6.
			Refer to compliance actions listed above for APM BIO-6.
MM CUL-8	Paleontological Monitoring. A paleontological monitor working under the supervision of the qualified paleontologist shall monitor all ground-disturbing that involve the original cutting of previously undisturbed sediments associated with the Friars and/or Mission Valley Formations, as well activities associated with the installation of the 69kV and 230kV tubular steel poles and cable pole foundations. The paleontological monitor shall keep daily logs detailing the types of activities and soils observed, and any discoveries. A cross-trained archaeological/paleontological monitor may conduct both paleontological monitoring and the archaeological monitoring described in MM CUL-4. After monitoring has been completed, the qualified paleontologists shall prepare a monitoring report that details the results of monitoring. The report shall be submitted to CPUC and SDG&E.	All project components	None.
			SDG&E will have a paleontological monitor on-site working under a qualified paleontologist to supervise ground-disturbing activities that involve the original cutting of previously undisturbed sediments associated with the Friars and/or Mission Valley Formations, as well activities associated with the installation of the 69kV and 230kV tubular steel poles and cable pole foundations Daily monitoring logs will be recorded.
			SDG&E will prepare a paleontological monitoring report following the completion of paleontological monitoring activities.

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MM CUL-9	Recovery of Paleontological Resources. In the event of the discovery of paleontological resources, the paleontological monitor shall have the authority to divert or temporarily halt construction activities within 50 feet of the discovery to allow recovery of fossil remains in a timely fashion. The qualified paleontologist shall contact CPUCs Cultural Resource Specialist and SDG&E's Cultural Resource Specialist and Environmental Project Manager at the time of discovery. In conjunction with the CPUC's Cultural Resources Specialist and SDG&E's Cultural Resource Specialist and Environmental Project Manager, the qualified paleontologist shall evaluate the significance of the find and if it is determined that the discovery constitutes a significant resource under CEQA, a Paleontological Resources Treatment Plan shall be prepared and implemented by a qualified paleontologist in consultation with CPUC and SDG&E. The treatment plan shall include provisions for the recovery of the discovered fossils along with pertinent stratigraphic data, as well the recovery of small fossil remains, such as isolated mammal teeth, through the collection of bulk sedimentary-matrix samples for off-site wet screening, as necessary. Fossil remains collected during monitoring and salvage shall be cleaned, repaired, sorted, cataloged, and deposited in a scientific institution with permanent paleontological collections, and a paleontological monitoring report shall be written. The report(s) documenting the implementation of the Paleontological Resources Treatment Plan shall be submitted to CPUC and SDG&E.	Required if unanticipated paleontological resources cannot be avoided	None.
			SDG&E's qualified paleontological monitor will notify the SDG&E and CPUC Cultural Resource Specialist in the event a paleontological resource is found during construction. If required, the qualified paleontologist will prepare a Paleontological Resource Treatment Plan (PRTP) in consultation with CPUC. SDG&E will implement the CPUC approved PRTP.
			SDG&E will submit any reports that are prepared documenting implementation of the PRTP to CPUC.
HAZARDS AND HAZARDOUS MATERIALS			
MM HAZ-1	Use of Tier-4 Engines. Implement MM AIR-1 regarding diesel-powered construction equipment emissions.		<i>See Compliance Actions listed for MM AIR-1 above.</i>
MM HAZ-2	Fire Safety. SDG&E and/or its contractors shall prepare a project-specific Construction Fire Prevention Plan (CFPP) to ensure the health and safety of construction workers and the public from fire-related hazards. The appropriate fire departments shall be consulted during plan preparation and the CFPP will include fire safety measures as recommended. The CFPP shall list fire prevention, and extinguishment procedures and specific emergency response and evacuation measures that would be followed during emergency situations. The CFPP also would provide smoking and fire-related rules, storage and parking areas, usage of spark arrestors on construction equipment, and fire-suppression tools and equipment. The CFPP shall include, but not be limited to, the following: <ul style="list-style-type: none">SDG&E and/or its contractors shall have water tanks, water trucks, or portable water backpacks (where space or access for a water truck or water tank is limited) sited/available in the Project area for fire protection.All construction vehicles shall have fire suppression equipment.All construction workers shall receive training on the proper use of fire-fighting equipment and procedures to be followed in the event of a fire.As construction may occur simultaneously at several locations, each construction site shall be equipped with fire extinguishers and fire-fighting equipment sufficient to extinguish small fires.Construction personnel shall be required to park vehicles away from dry vegetation.Prior to construction, SDG&E shall contact and coordinate with the appropriate fire departments to determine the appropriate amounts of fire equipment to be carried on the vehicles and appropriate locations for the water tanks, water trucks, and/or water backpacks. SDG&E shall submit verification of its consultation with the appropriate fire departments to the CPUC.The CFPP shall be submitted to CPUC staff for approval prior to commencement of construction activities and shall be distributed to all construction crew members prior to construction of the Project.Cease work during Red Flag Warning events in areas where vegetation would be susceptible to accidental ignition by Project activities (such as welding or use of equipment that could create a spark). During Red Flag Warning events all non- emergency construction and maintenance activities would cease in affected areas.	All project components	The SDG&E Fire Coordinator will prepare a project specific Construction Fire Prevention Plan (CFPP) and consult with local fire departments before finalizing the CFPP. The SDG&E Fire Coordinator will prepare training materials that will be incorporated into the overall Project Environmental Awareness Program (EAP) Training. SDG&E Fire Coordinator will perform initial Fire Safety Training(s) prior to the start of construction.
			SDG&E and its contractors will implement the CFPP, as approved by the CPUC. SDG&E will provide a summary of CFPP compliance actions within the Quarterly Compliance Report.
			None. Once construction is complete, no further compliance actions will be required.

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NOISE AND VIBRATION			
APM NV-1	For the few locations where the Proposed Project could exceed the noise ordinance limits during construction, SDG&E would meet and confer with the City and County to discuss temporarily deviating from the requirements of the Noise Code as necessary.	All components within 100 feet of a sensitive receptor	None.
			SDG&E will meet and confer with the local agency where Project construction is anticipated to exceed location noise ordinance limits.
			None.
MM NV-1	Variance Request. If it is determined that construction activities are necessary during nighttime hours or on a Sunday, SDG&E shall submit a variance request to the County of San Diego and/or City of San Diego planning departments to work outside of allowed construction hours. SDG&E shall provide CPUC with evidence that it has obtained the variance(s) prior to commencing such work.	Any construction activity that occurs at night or on a Sunday	None.
			If necessary, SDG&E will prepare and submit required noise variances to the appropriate local agency (City or County of San Diego).
			SDG&E will submit verification documentation of all noise variances to the CPUC.
			SDG&E will comply with any stipulations or requirements contained within each noise variance.
			SDG&E will provide a tabulation of noise variance requests and issuances, as well as a summary of any specific actions undertaken in compliance with said noise ordinances, within the Quarterly Compliance Reports.
			Following completion of construction activities, SDG&E will complete any applicable post-construction requirements found within issued noise variances.

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MM NV-2	Construction Noise Reduction Plan. To reduce daytime noise impacts due to construction of the Proposed Project near sensitive receptors, SDG&E shall develop a Construction Noise Reduction Plan (Plan). The Plan shall be submitted to the CPUC at least 60 days prior to the commencement of construction activities for review and approval. The Plan shall present specific measures that identify how the City and County construction noise limits of 75 dBA as an Leq over a workday at nearby sensitive receptor locations will be adhered to, including but not limited to the following measures: <ul style="list-style-type: none">When construction activities are conducted within 100 feet of sensitive receptor locations, noise barriers such as noise shields, barriers, blankets, or enclosures shall be used, where feasible, adjacent to or around noisy construction equipment. Noise control shields/barriers/blankets shall be made featuring weather-protected, sound-absorptive material on the construction-activity side of the noise shield/barrier/blanket.Distribute to the potentially affected residences within 100 feet of Project construction a “hotline” telephone number, which shall be attended during active construction working hours, for use by the public to register complaints. All complaints shall be logged noting date, time, complainants’ name, nature of complaint, and any corrective action taken.When construction activities are conducted within 100 feet of sensitive receptor locations, construction equipment and trucks will be equipped with enhanced noise control measures (where feasible and reasonably available). Enhanced noise control measures will be identified in the Plan and could include, but not necessarily be limited to improved exhaust mufflers and intake silencers, engine enclosures, noise shields or shrouds, etc.Impact tools (e.g., jack hammers, pavement breakers, and rock drills) used for project construction within 100 feet of sensitive receptor locations shall be hydraulically or electrically powered where feasible to avoid noise associated with compressed air exhaust from pneumatically powered tools. Where use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used; this muffler can lower noise levels from the exhaust by up to about 10 dB. External jackets on the tools themselves shall be used where feasible; this could achieve a reduction of 5 dB. Quieter procedures, such as use of drills rather than impact tools, shall be used whenever feasible. Note: if a noise reduction feature is not feasible, that does not alleviate the requirement to ensure that the noise levels are reduced to below the City and County of San Diego thresholds.Stationary construction noise sources located within 100 feet of sensitive receptor locations shall be located as far from adjacent receptors as possible, and they shall be muffled and enclosed within temporary sheds, incorporate insulation barriers, or other measures to the extent this does not interfere with construction.	All components within 100 feet of a sensitive receptor	SDG&E will prepare a Construction Noise Reduction Plan (CNRP) that includes all required elements outline in MM NV-2. SDG&E will submit the CNRP to CPUC for review and approval.
			SDG&E will follow measures in the CPUC approved CNRP to adhere to City and County construction noise limits during activities conducted within 100 feet of sensitive receptors. ¹ SDG&E will provide a summary of CNRP compliance actions within the Quarterly Compliance Reports.
			Following completion of construction activities, SDG&E will follow measures in the CPUC approved CNRP.

¹ The Construction Noise Reduction Plan has not yet been officially approved by the CPUC. Therefore, the specific implementation actions may change.

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MM NV-3	Vibration Reduction Plan. Prior to any blasting construction, the Applicant shall develop a Vibration Reduction Plan in coordination with an acoustical consultant, geotechnical engineer, and construction contractor, and submit the Plan to the CPUC for approval at least 60 days prior to any proposed blasting. The Vibration Reduction Plan shall include vibration reduction measures to ensure that surrounding buildings will be exposed to less than 0.2 PPV to prevent building damage. At a minimum, the plan shall consider the following measures: <ul style="list-style-type: none"> Evidence of licensing, experience, and qualifications of blasting contractors. The Plan shall establish a vibration limit of 0.2 PPV at nearby structures in order to protect structures from blasting activities and identify specific locations for monitoring. At a minimum, a pre–blast survey shall be conducted of any potentially affected structures. The Plan shall identify the appropriate size of the explosive charge to ensure that a vibration level of 0.2 PPV is not exceeded at nearby structures. Impacted property owners shall be notified at least 48 hours prior to the visual inspections. Post–construction monitoring of structures shall be performed to identify (and repair if necessary) any damage from blasting vibrations. Any damage shall be documented by photograph, video, etc. This documentation shall be reviewed with the individual property owners and SDG&E shall arrange and fund any needed repairs. Documentation of these efforts shall be provided to the CPUC. 	Required for any blasting activities.	If determined to be required, SDG&E will prepare a Vibration Reduction Plan that will include all required elements outlined in MM NV-3. SDG&E will submit the plan to CPUC for approval.
			During blasting activities, SDG&E will follow measures in the Vibration Reduction Plan. ² SDG&E will provide a summary of Vibration Reduction Plan compliance actions within the Quarterly Compliance Reports.
			Following completion of blasting activities, SDG&E will implement applicable measures in the Vibration Reduction Plan. SDG&E will provide a summary of vibration reduction compliance actions within the Quarterly Compliance Reports.
MM NV-4	Blasting Plan. Prior to conducting any blasting activities, SDG&E shall develop a Blasting Plan in coordination with an acoustical consultant, geotechnical engineer, and construction contractor. The Blasting Plan shall include at a minimum the following measures: <ul style="list-style-type: none"> Methods of matting or covering of blast area to prevent excessive air blast pressure. Description of air blast monitoring program. Blasting shall be limited to between the hours of 7:00 a.m. and 7:00 p.m. daily. Blasting notification procedures, lead times, and list of those notified. Public notification to potentially affected sensitive receptors describing the expected extent and duration of the blasting. 	Required for any blasting activities	If determined to be required, SDG&E will prepare the Blasting Plan(s) that will include all required elements outlined in MM NV-4, and pertinent SDG&E standards, as well as any federal, state, or local regulations applicable to blasting operations. SDG&E will submit the plan to CPUC for approval.
			During blasting activities, SDG&E will follow measures in the Blasting Plan. ³ SDG&E will provide a summary of Blasting Plan compliance actions within the Quarterly Compliance Reports.
			Following completion of blasting activities, SDG&E will implement applicable measures in the Blasting Plan.

² The Vibration Reduction Plan has not yet been prepared. Therefore, the specific implementation actions are not known at this time.
³ The Blasting Plan has not yet been prepared. Therefore, the specific implementation actions are not known at this time.

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MM NV-5	Nighttime Noise and Nuisance Reduction Plan. SDG&E and/or its contractors shall develop a Nighttime Noise and Nuisance Reduction Strategy Plan in the event that nighttime construction activity is determined to be necessary within 500 feet of sensitive receptors. The plan shall be submitted to the CPUC for review and approval prior to the commencement of nighttime construction activities. The strategy shall include a set of site-specific noise attenuation measures that apply state-of-the-art noise reduction technology to ensure that nighttime construction noise levels and associated nuisances are reduced to the extent feasible. The attenuation measures may include, but not be limited to, the control strategies and methods for implementation that are listed below. <ul style="list-style-type: none">Plan construction activities to minimize the amount of nighttime construction.Offer temporary relocation of residents within 200 feet of nighttime construction activities.Temporary noise barriers, such as shields and blankets, shall be installed immediately adjacent to all nighttime stationary noise sources (e.g., auger rigs, generators, compressors, etc.).Install temporary noise barriers that block the line of sight between nighttime activities and the closest residences within 500 feet.The notification requirements identified in Mitigation Measure NV-2 shall be extended to include residences within 500 feet of pending nighttime construction activities.	Any construction activities within 500 feet of a noise sensitive receptor that occurs during nighttime hours (as defined by the City and County of San Diego)	If determined to be required, SDG&E will prepare the Nighttime Noise and Nuisance Reduction Plan that will include all required elements outlined in MM NV-5. SDG&E will submit the plan to CPUC for approval.
			During nighttime construction activities, SDG&E will follow applicable measures in the CPUC approved Nighttime Noise and Nuisance Reduction Strategy Plan. ⁴ SDG&E will provide a summary of Blasting Plan compliance actions within the Quarterly Compliance Reports.
			Following completion of nighttime construction activities, SDG&E will implement applicable measures in the CPUC approved Nighttime Noise and Nuisance Reduction Plan.
UTILITIES AND SERVICE SYSTEMS			
MM US-1	Construction and Demolition Debris Recycling Ordinances. The Applicant will comply with the minimum construction and demolition debris diversion requirements found within the local waste diversion ordinances. Specifically, the project will reuse, recycle, or other divert at least 90 percent of inert wastes, and at least 70 percent of all other nonhazardous solid waste, from disposal at landfills. In order to document and track such diversions, the applicant will provide the following: <ul style="list-style-type: none">Prior to construction, the Applicant will provide a preliminary Construction and Demolition Debris Register (Preliminary Debris Register) that lists all anticipated construction and demolition solid waste streams (by weight) along with how the project will dispose/divert each waste. The Preliminary Debris Register will also list the anticipated destination(s) (i.e., location or facility) for each waste stream. The Preliminary Register will document how the project will achieve the minimum waste diversion percentages.During construction activities, the Applicant will keep records (e.g., a Log) on site documenting the disposal and/or diversion of all construction and demolition debris that leaves the project site. The Applicant will also keep copies of all corresponding receipts or similar documentation from solid waste facility, recycling center, green waste facility, or other permitted facility.During construction activities, the Applicant will provide updates for solid waste diversion to the CPUC as part of the Quarterly Project Status Reports required by the MMRCP.Following the completion of construction activities, the Applicant will provide a Final Debris Register that will document the final construction and demolition debris totals, destinations, and diversion percentages. The Final Debris Register will document the project’s final compliance with the minimum diversion percentages.	All project components	SDG&E will prepare a preliminary Construction and Demolition Debris Register and submit it to the CPUC.
			SDG&E will maintain a log on-site documenting construction waste material management and will retain all receipts from off-site waste and recycling facilities to which materials are sent. SDG&E will include a summary of solid waste material management activities within the Quarterly Compliance Reports that will be submitted to the CPUC.
			SDG&E will provide the Final Debris Register that documents construction material totals, destinations, and diversion percentages.

⁴ The Nighttime Noise and Nuisance Reduction Plan has not yet been prepared. Therefore, the specific implementation actions are not known at this time.