SAN DIEGO GAS & ELECTRIC COMPANY

CLEVELAND NATIONAL FOREST
POWER LINE REPLACEMENT PROJECTS
WATER SUPPLY PLAN

MARCH 2017

PREPARED BY:

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PREPARED FOR:

SDGE

A Sempra Energy utility℠

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1 – INTRODUCTION

This Water Supply Plan (Plan) describes how San Diego Gas & Electric Company (SDG&E) and its contractors will ensure the availability of one or more confirmed and reliable water sources that, when combined, meet the full water supply needs for construction of the Cleveland National Forest Power Line Replacement Projects (Project). The Project includes the following components:

- replacement of approximately 1,400 existing wood poles with fire-resistant, weathered steel poles;
- undergrounding of approximately 26 miles of existing 12 kilovolt (kV) distribution lines;
- removal of approximately 30 miles of existing 12 kV and 19 miles of existing 69 kV overhead facilities; and
- closure of approximately 24 miles of access roads.

This Plan was prepared in accordance with Mitigation Measure (MM) HYD-2a and MM HYD-2b of the Mitigation Monitoring, Compliance, and Reporting Program for the Project, which includes a requirement to submit documentation to identify one or more reliable water sources that, when combined, will meet the Project's water supply needs during construction. This Plan is a general framework that will cover the construction-based activities of the entire Project. Attachment A: Service Confirmation provides written documentation of the current water source that covers the needs of the Project. Additional service confirmation letters will be provided in subsequent attachments as additional water sources are approved by the California Public Utilities Commission (CPUC).

2 – OBJECTIVES

The purpose of this Plan is to provide a narrative description of how the Project is in compliance with MM HYD-2a and MM HYD-2b. This plan also includes documents that fulfill the documentation requirement of the MMs. The construction water supply sources presented in this Plan accomplish the following objectives:

- Provide a reliable source of construction water to be supplied at a rate required to meet the Project schedule objectives.

- Provide documentation from one or more water/utility districts indicating the total amount of water to be provided and the timeframe that the water will be made available to support the Project.

- Provide documentation, if needed, from one or more groundwater sources demonstrating SDG&E's ability to legally use water from the source and a study discussing the required elements of MM HYD-2b.

3 – MITIGATION MEASURES

The full text of MM HYD-2a and MM HYD-2b is provided as follows:

HYD-2a: <u>Documentation of purchased water source(s)</u>
For water that is to be purchased from one or more public or private water/utility district(s), private landowners, or from tribes, SDG&E shall provide to the CPUC written documentation from such district(s) and/or landowners indicating the total amount of water to be provided and the time frame that the water will be made available to the project. The documentation shall also indicate the type of water (potable or reclaimed) and the specific source of the water (groundwater well or surface diversions). The sources and amounts of water to be obtained by SDG&E shall be documented in a Water Supply Plan to be submitted to the CPUC prior to notice to proceed for each project component.

HYD-2b: <u>Groundwater Evaluations of Off-Site Water Import Sources</u>
For identified water sources that derive their water supply from groundwater, SDG&E shall commission a groundwater study by a registered/certified hydrogeologist, as reviewed and approved by CPUC, to assess the existing condition of the underlying groundwater/aquifer and all existing wells (with owner's permission) in the vicinity of proposed well location/water sources and to verify that the proposed source is capable of supplying the amount of water needed. The groundwater study shall evaluate whether the volume and duration of the proposed groundwater use would exceed County of San Diego thresholds for impacts with respect to groundwater supply and well interference. If the evaluation indicates the potential for significant impacts, the registered/certified hydrogeologist shall recommend feasible mitigation measures (e.g., a groundwater monitoring program) to avoid exceeding applicable thresholds. The groundwater evaluation shall be provided along with the documentation of purchased water sources, and the CPUC shall not authorize construction of the project unless such documentation have been provided by SDG&E and approved by CPUC. If the evaluation finds that impacts cannot be avoided given the volume and duration of the proposed groundwater use, the CPUC will not authorize use of the water source and shall require SDG&E to seek other viable sources of water.

Total confirmed water supplies from the combination of above documented sources shall equal the total gallons of water needed through construction of the project. SDG&E shall submit monthly water logs documenting compliance with the water supply plan and groundwater thresholds.

4 – PLAN IMPLEMENTATION

Implementation of this Plan will be achieved by pre-construction planning as follows:

1. Identify potential construction water sources.
2. Investigate availability and deliverable water volume for each potential source.
3. If necessary, obtain a groundwater study performed by a qualified hydrogeologist for all groundwater sources.
4. Confirm compliance with all applicable laws and regulations.

5. Obtain service confirmations from each approved source prior to construction.

All of the water suppliers identified in this Plan have been determined to be potential sources for the Project. It is anticipated that two or more of these sources will be used during construction. The overall goal is to use the sources closest to the Project site to minimize transportation costs and air quality and traffic impacts. In compliance with MM HYD-2a, written documentation from water districts and landowners will be provided to the CPUC prior to the Notice to Proceed (NTP) for each Project component. This documentation will include the total amount of water to be provided and the timeframe that the water will be made available to the Project. SDG&E will document compliance with MM HYD-2b throughout construction by submitting a monthly water usage report to the CPUC.

4.0 CONSTRUCTION WATER SUPPLY NEEDS

The Project requires construction water for the following activities:

- Dust control
  - Power line access roads and pole/tower sites
  - Staging areas
  - Stringing sites, guard structure locations, and other Project components
  - Access road maintenance
- Compaction of earth fill
  - Backfill of underground power line trenches
- Concrete mixing for installation of micro-pile foundations
- Concrete pouring and washout
  - Underground power line duct banks
- Other miscellaneous activities
  - Restoration of Project sites

According to the Project's Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) (CPUC, 2015), it is anticipated that 5 million to 10 million gallons of water will be needed each year for the approximately five-year construction period. Construction water will be delivered to on-site mobile storage facilities (e.g., baker and drop tanks). Storage locations will be identified prior to construction mobilization.

4.1 CONSTRUCTION WATER SUPPLY SOURCES

The City of San Diego Public Utilities Department will be the initial source of construction water. As stated in written documentation provided by the City of San Diego in Attachment A: Service Confirmation, this source is available specifically for the Project. Fifty million gallons of potable water will be made available from August 2016 to November 2019.

Table 1: Potential Construction Water Supply Sources identifies other potential sources that could provide some of the construction water needs for the Project. These sources include water sources identified in the Final EIR/EIS, additional water sources identified by SDG&E during development development of this Water Supply Plan, and water sources previously used by SDG&E in the vicinity of the Project. Once other water sources are verified, SDG&E will

submit a revised Plan with written documentation from each source containing the details requested by the CPUC.

Table 1: Potential Construction Water Supply Sources

Water Supplier	Water Source	Water Type	Recycled Water? (Yes/No)	Contact Info
Live Oak Springs Water District (LOS)	Groundwater	Potable and Non-Potable	No	Nazar Najor XXXX
Descanso Community Water District	Groundwater	Potable	No	Julie Seevers (XXX) XXX-XXXX
City of Escondido	San Diego County Water Authority (SDCWA) and Surface Water	Potable and Recycled	Yes	Elisa Marrone (XXX) XXX-XXXX (XXX) XXX-XXXX
City of San Diego Public Utilities Department	SDCWA, Groundwater,[1] Surface Water, and Recycled	Potable and Recycled	Yes	Nina Patterson (XXX) XXX-XXXX (XXX) XXX-XXXX XXXX
Vista Irrigation District	SDCWA and Surface Water	Potable	No	Don Smith (XXX) XXX-XXXX (XXX) XXX-XXXX
Jacumba Community Services District (JCSD)	Groundwater	Potable and Non-Potable	No	Debbie Trout (XXX) XXX-XXXX XXXX
DD Axiom Resources LLC[2]	Surface Water	Non-Potable	No	Deborah Wilson (XXX) XXX-XXXX XXXX

Two of these sources—the City of Escondido and the City of San Diego Public Utilities Department—may be able to provide recycled water for a portion of the Project's construction water needs. If recycled water is used, it will be handled, stored, and applied in accordance with all applicable federal, state, and local rules and regulations.

[1] According to the City of San Diego's 2010 Urban Water Management Plan, approximately 0.2 percent of the city's total water supply comes from groundwater (City of San Diego, 2010).

[2] Per the CPUC memo recieved on July 28, 2016, SDG&E will prepare and submit a Minor Project Refinement (MPR) request to use DD Axiom Resources LLC as a source of water for the Project. Once the MPR request is approved by the CPUC, SDG&E will submit a revised Plan listing DD Axiom Resources LLC as one of the approved water sources.

4.2 GROUNDWATER STUDY

In order to properly evaluate some of the potential groundwater sources listed in Table 1: Potential Construction Water Supply Sources, SDG&E is commissioning a groundwater study by a registered/certified hydrogeologist, as reviewed and approved by the CPUC, for sources of construction water that derive their water supply from groundwater. The groundwater studies will be performed in accordance with MM HYD-2b and will evaluate whether the volume and duration of the proposed groundwater use would exceed County of San Diego thresholds[3] for impacts to storage and well drawdown levels. Further, the groundwater study will assess the existing condition of the underlying groundwater/aquifer and all existing wells (with the owner's permission) in the vicinity of proposed well location/water sources as well as confirm total water supplies from the verified water sources, demonstrating that the construction water needs of the Project can be met. If the study indicates the potential for significant impacts, the registered/certified hydrogeologist will recommend feasible MMs (e.g., a groundwater monitoring program) to avoid exceeding applicable thresholds. If a groundwater monitoring program is required, SDG&E will submit a revised Plan, including a groundwater monitoring program, to the CPUC for approval.

5 – REFERENCES

City of San Diego. 2010. 2010 Urban Water Management Plan. Online. http://www.sandiego.gov/water/pdf/110519uwmp.pdf. Site visited February 1, 2016.

County of San Diego. 2007. Guidelines for Determining Significance and Report Format and Content Requirements: Groundwater Resources. Online. http://www.sandiegocounty.gov/dplu/docs/GRWTR-Guidelines.pdf. Site visited July 7, 2016.

CPUC. 2015. Final Environmental Impact Report/Environmental Impact Statement: Master Special Use Permit and Permit to Construction Power Line Replacement Projects. Online. http://www.cpuc.ca.gov/environment/info/dudek/CNF/MSUP-PTC_PowerLineReplacementProject_Vol1P1_Final_EIR-EIS.pdf. Site visited September 9, 2015.

Dudek. 2013. Final Work Plan for Source Capacity Study. Live Oak Springs Water Company. Live Oak Springs, San Diego County, California. Online. http://www.liveoaksprings.com/watercompanyreports.html. Site visited June 28, 2016.

[3] According to the Final EIR/EIS, the following constitute a significant impact to groundwater supplies:
1. A reduction in the level of groundwater storage to 50 percent or less as a result of groundwater extraction and as shown using a soil moisture balance, or an equivalent analysis, conducted using a minimum of 30 years of precipitation data, including drought periods.
2. A decrease in water levels of 20 feet or more in off-site groundwater wells after a five-year projection of drawdown; or a decrease in saturated thickness of five percent or more in the off-site wells, if site-specific data indicates that water-bearing fractures exist and they substantiate an interval of more than 400 feet between the static water level in each off-site well and the deepest major water-bearing fracture in the well(s).

Dudek. 2015. Draft Groundwater Resources Investigation Report – Flat Creek Watershed Analysis. Jacumba Community Services District. Jacumba Hot Springs, San Diego County, California. Online. http://www.sandiegocounty.gov/content/dam/sdc/pds/ProjectPlanning/JACUMBA/Appendix%203.1.4-4_Supplemental%20Groundwater%20Resources%20Investigation%20Report.pdf. Site visited June 28, 2016.

ATTACHMENT A: SERVICE CONFIRMATION

The City of
SAN DIEGO
Public Utilities Department
Water System Operations Division

August 9, 2016

Mr. Todd Voorhees
Regional Public Affairs Manager
San Diego Gas & Electric
8330 Century Park Court
San Diego, CA 92123

Dear Mr. Voorhees:

The City of San Diego Public Utilities Department (PUD) has been contacted by San Diego Gas & Electric (SDG&E) regarding construction of the SDG&E Cleveland National Forest Power Line Replacement Projects (Project). The Project will continue to require construction water for grading, fire suppression, dust control and other construction related activities. The permitting authority for the Project, the California Public Utilities Commission (CPUC), requires that SDG&E and its contractors obtain written documentation from all potential sources of construction water confirming that an increased quantity of water will be available for use on the Project during a specified period of time.

At the request of SDG&E, PUD hereby confirms that up to 50.0 million gallons of water shall be available for Project use during the period August 2016 to December 2020.

Tatyana Fikhman
Water Production Superintendent

cc: Jesus Meda, Deputy Director, Water System Operations Division, PUD