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November 3, 2014

Subject: SDG&E Request Window project submissions – 2014/2015 Transmission Plan

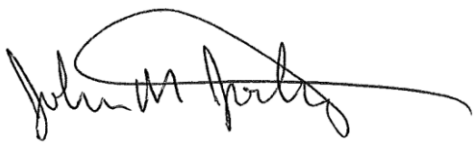
Dear Mr. Sparks,

The purpose of this letter is to formally submit the following reliability project(s) through the ISO's 2013 Request Window Process to comply with NERC CAT C criteria

1) New Mission-Penasquitos 230kV Line

I am confident that the accompanying supplemental submission package meets the ISO's filing requirements and look forward to receiving our validation letter. Please feel free to contact me if you have any questions.

Sincerely,



John Jontry

REQUEST WINDOW SUBMISSION FORM

Please complete this submission form and the Attachment A (technical data) and send the documentation to the ISO contact listed in section 2. Please note that this form should be used for the purpose of submitting information that applies to the scope of Request Window that is a part of the ISO Transmission Planning Process only. For more information on the Request Window, please refer to the Business Practice Manual (BPM) for the Transmission Planning Process which is available at: http://www.caiso.com/planning/Pages/TransmissionPlanning/Default.aspx.

The undersigned ISO Stakeholder Customer submits this request to be considered in the CAISO Transmission Plan. This submission is for (check one)[1]:

- ☒ Reliability Transmission Project (refer to section 1 of Attachment A)
  - ☒ Submission is requested by a PTO with a PTO service territory
  - ☐ Submission is requested by a non-PTO, a PTO without a PTO service territory or a PTO outside its PTO service territory.
- ☐ Merchant Transmission Facility (refer to section 1 of Attachment A)
- ☐ Location Constrained Resource Interconnection Facility (LCRIF) (refer to sections 1 & 2 of Attachment A)
- ☐ Project to preserve Long-term Congestion Revenue Rights (CRR) (refer to section 1 of Attachment A)
- ☐ Demand Response Alternatives (refer to section 3 of Attachment A)
- ☐ Generation Alternatives (refer to section 4 of Attachment A)

1. Please provide the following basic information of the submission:
   a. Please provide the project name and the date you are submitting the project proposal to the ISO. It is preferred that the name of the project reflects the scope and location of the project:

      Project Name: **New Mission-Penasquitos 230kV Tie Line**

      Submission Date: **November 4th, 2014**

   b. Project location and interconnection point(s): **Construction Beach Cities District Penasquitos Substation and Mission Substation.**

   c. Description of the project. Please provide the overview of the proposed project (e.g. overall scope, project objectives, estimated costs, etc.):

      This project will install a new 230kV Tie-Line from Penasquitos to Mission Substation.

   d. Proposed In-Service Date, Trial Operation Date and Commercial Operation Date by month, day, and year and Term of Service.

[1] Please contact the ISO staff at requestwindow@caiso.com for any questions regarding the definitions of these submission categories in this form.

Proposed In-Service date: **6 / 01/ 2017**

Proposed Trial Operation date (if applicable): **/ /**

Proposed Commercial Operation date (if applicable): **/ /**

Proposed Term of Service (if applicable):

e. Contact Information for the Project Sponsor:

Name:	**John Jontry**
Title:	**Transmission Planning Manager**
Company Name:	**San Diego Gas & Electric**
Street Address:	**8316 Century Park Court, CP-52K**
City, State:	**San Diego, CA**
Zip Code:	**92123**
Phone Number:	**858-654-1577**
Fax Number:	**858-654-1692**
Email Address:	**JJontry@semprautilities.com**

2. This Request Window Submission Form shall be submitted to the following ISO representative:

Name: Dana Young

Email Address: requestwindow@caiso.com

3. This Request Window Submission Form is submitted by:

Check here if the information is the same as the Project Sponsor information in 1 (f) of this submission: ☒

Name:

Title:

Company Name:

Street Address:

City, State:

Zip Code:

Phone Number:

Fax Number:

Email Address:

CAISO TRANSMISSION PLANNING PROCESS

Attachment A: Required Technical Data for Request Window Submissions

Please provide all of the information that applies to each type of submission. For any questions regarding the required technical data, please contact the ISO for more information.

1. Transmission Projects

This section applies to all transmission project submissions.

Any transmission project (reliability project, merchant project, LCRIF or a project to preserve long-term CRRs), whether submitted by a PTO or a non-PTO, must submit the following project information in accordance with Section 4.4.3.1 of the CAISO Transmission Planning Process BPM, which includes, but is not limited to[2]:

General Data

- **CAISO identified a NERC Category C thermal violations on TL13810A Friars – Doublet Tap 138kV for the N-1-1 of TL23013 (Old Town – Penasquitos) and the new Sycamore- Penasquitos 230kV line in 2017.**
- **Scope of the project is to build a new 230kV Tie-Line from Mission to Penasquitos using some portion of TL23001 after SX-PQ project is in-service.**
- The attached diagram shows the geographical location of the proposed project.
    - **Please see "New Mission-Penasquitos 230kV Tie Line.pdf"**

Technical Data

- **CAISO identified a NERC Category C thermal violations on TL13810A (Friars – Doublet Tap 138kV) for the N-1-1 of TL23013 (Old Town – Penasquitos) and Sycamore- Penasquitos 230kV lines in 2017.**
- Network model for power flow study in GE-PSLF format must be provided. In some cases, Dynamic models for stability study in GE-PSLF format may also be required.

Please see the file "New Mission-Penasquitos 230kV Tie-line, 2017.epc"

Planning Level Cost Data

- **The estimated construction cost range for the new 230 kV line is $22.8M-25.5M. The required in-service date target is June 1, 2017.**

Miscellaneous Data

- Proposed entity to construct, own, and finance the project.

  San Diego Gas & Electric Company proposes to build, continue ownership, and finance the proposed New 230kV Tie Line from Mission Substation to Penasquitos Substation
- Planned operator of the project.

[2] This appendix lists the minimum of data required by the ISO for the first screening purposes, additional data may be requested by the ISO later during the course of project evaluation

The operation of the facility will continued to be performed jointly by San Diego Gas & Electric and the CAISO.

- Construction schedule with expected online date.

  The required in-service date is June 1, 2017. Specific project milestone details will be provided to the CAISO as they are determined over the intervening project time line.

- Reliability project proposals need to specify the necessary approval date (month/year).

  SDG&E is requesting approval in this study cycle (Q4/2014) in order to achieve the required ISD.

2. Location Constrained Resource Interconnection Facilities (LCRIFs)

Along with submitting the required information in 1 of this Attachment A, any party proposing an LCRIF shall include the following information in accordance with Section 24.4.6.3 of the CAISO Tariff and Section 4.4.3.2 of the CAISO Transmission Planning Process BPM:

A description of the proposed facility, including the following information:

- Transmission study results demonstrating that the proposed transmission facility meets Applicable Reliability Requirements and CAISO Planning Standards.
- Identification of the most feasible and cost-effective alternative transmission additions, which may include network upgrades that would accomplish the objectives of the proposal.
- A planning level cost estimate for the proposed facility and all proposed alternatives.
- An assessment of the potential for the future connection of further transmission additions that would convert the proposed facility into a network transmission facility, including conceptual plans.
- A conceptual plan for connecting potential LCRIGs, if known, to the proposed facility.

Information showing that the proposal meets the criteria outlined in Section 24.4.6.3.2 of the CAISO Tariff and Section 4.4.3.2 of the CAISO Transmission Planning Process BPM permits the ISO to conditionally approve the LCRIF as follows:

- The facility is to be constructed for the primary purpose of connecting two or more Location Constrained Resource Interconnection Generators (LCRIG) in an Energy Resource Area, and at least one of the LCRIG is to be owned by an entity or entities not an Affiliate of the owner(s) of another LCRIG in that Energy Resource Area.
- The facility will be a High Voltage Transmission Facility.
- At the time of its in-service date, the transmission facility will not be a network facility and would not be eligible for inclusion in a PTO's TRR other than as an LCRIF.
- The facility meets Applicable Reliability Criteria and CAISO Planning Standards.

3. Demand Response Alternatives

Any party proposing demand response alternatives (*e.g.*, amount of load impact, location, and cost of the program) shall include the following information in accordance with Section 4.4.3.3 of the CAISO Transmission Planning Process BPM:

- Bus-level model of demand response for power flow or stability studies.
- Associated planning level costs.
- Satisfactory evidence showing that the proposed demand response will be reliably operated and controllable by the ISO.
- Project capacity (Net MW).

4. Generation Alternatives

Any party proposing generation alternatives shall include the following information in accordance with Section 4.4.3.3 of the CAISO Transmission Planning Process BPM:

- Basic description of the project, such as fuel type, size, geographical location, etc.
- Project scope and detailed descriptions of the characteristics or how it will be operated.
- Description of the issue sought to be resolved by the generating facility, including any reference to results of prior technical studies included in published Transmission Plans.
- Generation alternative proposals must include the network model of the project for the power flow study, dynamic models for the stability study, short circuit data and protection data.
- Other technical data that may be required for specific types of resources, such as wind generation.
- Detailed project costs, project construction, heat rate, and operation costs.
- Project capacity (Net MW).
- Any additional miscellaneous data that may be applicable.

Please note this submission does not establish an ISO GIP queue position. New resources seeking interconnection to the ISO grid must be submitted into the ISO's generation interconnection process (GIP).

Project Title:	***District:***	***Need-Date:***	***Project:***
New Mission-Penasquitos 230kV Tie Line	**Beach Cities**	**June 2017**	**2014-00024-AA**

Driving Factor:
NERC Category C thermal violations on TL13810A (Friars – Doublet Tap 138kV) for the N-1-1 of TL23013 (Old Town – Penasquitos) and Sycamore-Penasquitos 230kV lines in 2017

Scope:
Scope of the project is to build a new 230kV Tie-Line from Mission to Penasquitos using some portion of TL23001 after SX-PQ project is in-service.

Preliminary Cost Range:
$22.8M-$25.5M

Issues:
•Outage of TL23013 and the new TL Penasquitos to Sycamore (230kV) triggers a 5% overload on TL13810A in 2017.

Alternative:
•Reconductor TL13810A (Friars to Doublet Tap)