

California Independent System Operator

&

DesertLink

Joint Transmission Planning Base Case Preparation Process

**NERC Reliability Standard MOD-032-1
Data for Power System Modeling and Analysis**

Version 2.0

January 2025

Table of Contents

Contents

1	Introduction.....	3
1.1	Purpose	3
1.2	Overview of the Process.....	3
2	CAISO TPP and WECC Base Case Development Process.....	3
2.1	Roles and Responsibilities	3
2.2	Modeling Assumptions and Responsibilities	4
2.3	CAISO TPP Base Case Development Process.....	4
2.4	WECC Base Case Development Process	4
2.5	Short Circuit Modeling Data	5
Appendix A.	Modeling Communications.....	7
Appendix B.	Evidence Retention.....	8

Version History

Version	Date	Change
1.0	3/20/2020	CAISO-DesertLink Joint Transmission Planning Base Case Preparation Process document for MOD-032-1 Requirement R1 Implementation and Compliance, initial version
2.0	1/7/2025	Additional requirements related to data submitted by entities per FAC-014-3 under Section 2.2.1

1 Introduction

1.1 Purpose

The purpose of this document is to (i) as required by NERC Reliability Standard MOD-032, Requirement 1, provide a jointly developed process for the California ISO (CAISO) as the Planning Coordinator (PC) and Balancing Authority (BA), and DesertLink as the Transmission Planner (TP), to comply with steady state, dynamics, and short circuit modeling data requirements and reporting procedures for the CAISO Planning Coordinator planning area; (ii) provide details of the assumptions for DesertLink and CAISO to use in the annual CAISO Transmission Planning Process (TPP) Base Cases; and (iii) provide an overview of the process used in the development of the CAISO Transmission Planning Process (TPP) and Western Electricity Coordinating Council (WECC) Base Cases.

1.2 Overview of the Process

DesertLink owns Bulk Electric System transmission facilities in the CAISO PC Area, but does not have any load or generation directly connected to their transmission facilities. DesertLink will annually provide the latest available modeling data for their facilities to the CAISO. The model data will be provided during Phase 1 of each TPP planning cycle, during the timeline in the CAISO TPP Study Plan.

This document includes details of the process followed for developing the WECC and CAISO TPP base cases.

2 CAISO TPP and WECC Base Case Development Process

The base case development process is completed on a yearly basis in order to keep the DesertLink Harry Allen – Eldorado 500 kV line model up-to-date and consistent with any changes that may have occurred throughout the year.

DesertLink will provide validated data and ensure that it is accurate and represents up-to-date information for modeling the DesertLink facilities in the CAISO Planning Coordinator Area.

2.1 Roles and Responsibilities

DesertLink, as its own TP, is responsible for maintaining all models and modeling data related to DesertLink's ownership of transmission facilities in the CAISO Planning Coordinator Area.

2.2 Modeling Assumptions and Responsibilities

DesertLink's modeling data will follow the WECC Data Preparation Manual wherever applicable. DesertLink will submit WECC base case modeling information in accordance with this CAISO-DesertLink Joint Transmission Planning Base Case Preparation Process document posted on the [CAISO web site](#). This section provides additional information on what assumptions are made and what level of detail is required for modeling the various aspects of the base cases created.

2.2.1 Transmission Project Modeling

The existing system model will be based upon as-built design and equipment test reports. Future DesertLink transmission projects approved by CAISO will reflect the most up-to-date information available for both scope and in-service dates.

Requirement R6 of FAC-014-3 directs each transmission planning entity to use facility ratings and criteria that are not less limiting than those described in RC West's SOL methodology unless the entity provides a technical rationale to the entities identified in the standard. To that end, DesertLink as a Transmission Planner shall ensure that the facility ratings including the applicable time duration it provides to California ISO PC in planning models are consistent with the facility ratings data that the Transmission Owner provided to DesertLink as the Transmission Planner as described above

2.2.2 Outage Information

Planned outages that are at least 6 months in duration will be modeled based upon the planned dates of outages using the outage information provided by DesertLink and CAISO.

2.3 CAISO TPP Base Case Development Process

DesertLink is responsible for providing its transmission system model updates to the CAISO at least once a year, during Phase 1 of each CAISO TPP planning cycle, during the timeline in the CAISO TPP Study Plan, to accurately capture DesertLink's transmission system model in the TPP study cases.

2.4 WECC Base Case Development Process

For the development of WECC base cases, the CAISO will ensure that the latest modeling information provided by DesertLink for the CAISO TPP base cases is provided to the appropriate WECC base case development area coordinator(s). The area coordinator(s) will ensure that the latest DesertLink modeling information is incorporated into their WECC base case data submittals for the area coordinator area.

2.5 Short Circuit Modeling Data

DesertLink maintains short circuit modeling data for their transmission planning area and will provide it to CAISO, or WECC upon request.

Approval

This document represents the California Independent System Operator (CAISO) & DesertLink Joint Transmission Planning Base Case Preparation Process (Joint Base Case Process) and each entity's individual and joint responsibilities for implementing Requirement 1 and its sub-requirements of the NERC MOD-032-1 Reliability Standard.

The Parties signing this document agree it accurately identifies their respective roles and responsibilities for implementing Requirement 1 and its sub-requirements for MOD-032-1.

Signatories:

Originally Signed By

January 7, 2025

Robert Sparks

Date

California ISO, Sr. Manager, Regional Transmission-South, Infrastructure Development

Originally Signed By

January 7, 2025

Diwakar Tewari

Date

DesertLink, Vice President of Transmission Planning

Appendix A. Modeling Communications

Entities responsible for providing data should send it to:

Planning Coordinator (PC) – California ISO at: GridModelingData@caiso.com

Transmission Planner (TP) – DesertLink at: DTekeste@lspower.com

Appendix B. Evidence Retention

The following evidence for demonstrating compliance with MOD-032 will be retained for a period of 4 years unless one of the following is true:

1. Last audit of the ISO Planning Coordinator function was performed by the Compliance Enforcement Authority during November 26, 2018 through December 7, 2018, therefore at a minimum, maintain evidence from the last audit until a new audit of the Planning Coordinator function is performed.
2. Maintain evidence for a longer period of time if asked by the Compliance Enforcement Authority, as part of an investigation.
3. If an applicable entity is found non-compliant, it shall keep information related to the non-compliance, at a minimum, until mitigation is complete and approved.

The following documents need to be retained:

- Documentation showing that DesertLink and CAISO jointly developed required modeling data requirements and reporting procedures;
- Modeling requirements document;
- Posting and reporting procedures for modeling requirements documents; and
- Written notification regarding technical concerns with data submitted under R2, including the technical basis or reason for the technical concerns.