

Draft White Paper

CAISO Control Area Network Model Revision C8 Network Model Implementation

Effective October 11, 2007

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1. Introduction

The mission of the California Independent System Operator (CAISO) is to plan and operate a safe and reliable electric system, facilitate markets for capacity, energy and congestion. But like any organization that maintains reliability, the CAISO must also be a responsive organization that fosters change for the benefit of our customers in California and the West.

The CAISO is prepared to make the modifications to its current Control Area Network Model that are outlined in this document. The proposed changes are scheduled for implementation on October 10, 2007 effective for trade date October 11, 2007.

The following modifications are included in the model:

1. **Branch group Modification of SMUD/MID and TID**
2. **New Resources, Participating Generator Agreements / Metered Sub-System Aggregator Agreements, resource renaming, Qualifying Facility conversions, Power Purchase Agreements to Participating Generator Agreements**
3. **Update the Imperial Valley 230 S Tie-line impedance**
4. **New Resource Interconnection Transmission Projects**

This draft proposal will document the modifications in further detail.

2. Summary of Changes Effective for October 11, 2007

The CAISO recognizes any changes to the CAISO Network Model impacts market participants in various ways. To help minimize this impact, the CAISO proposes to implement the changes, as outlined in this document, into one single Network Model release. This approach is expected to reduce the resource requirements and lessen the impact of numerous releases.

The new network model "C8" is scheduled for production release on October 10, 2007 for trade date Thursday, October 11, 2007, HE01.

The C8 model will include a branch group modification of SMUD/MID and TID, multiple resource updates, an update of the Imperial Valley 230 S Tie-line impedance, and new or updated NRI transmission projects.

2.1 Branchgroup Modification of SMUD/MID and TID

Prior to 9/24/2006, SMUDMID and TID interties had 4 branch groups (one branch group per intertie); see table 1.1. As part of the "C4" network model implementation, it was merged to two branch groups; see table 1.1a. However, to provide added scheduling flexibility for the parties, the ties will once again be managed as individual scheduling points, to be operated within the constraints specified in the Sacramento Valley Study Group "Westley 2007 Summer Report" and nomogram, which considers Path 15 limits, the Los Banos-Westley line limits and a collective MID/TID import limit of 820 MW. Accordingly, the network model will need to be rolled back to

the one branch group per intertie as table 1.1b indicates. No changes for the intertie Ids will be necessary.

Table 1.1a The Current Branch Group Configuration

Branch Group Ids	External CZ	ISO CZ	Control Area	Intertie Ids
TSLASTDFD_BG	SMDJ	NP15	SMUD/MID	WESTLY_2_TESLA
	SMDJ	NP15	SMUD/MID	STNDFD_1_STNCSF
OAKDLBNS_BG	TDZ1	NP15	TID	OAKTID_1_OAKCSF
	TDZ1	NP15	TID	WESTLY_2_LOSBNS

Table 1.1b The C8 Branch Group Configuration

Branch Group Ids	External CZ	ISO CZ	Control Area	Intertie Ids
WSLYTESLA_BG	SMDJ	NP15	SMUD/MID	WESTLY_2_TESLA
STNDFDSTN_BG	SMDK	NP15	SMUD/MID	STNDFD_1_STNCSF
OAKDALSUB_BG	TDZ1	NP15	TID	OAKTID_1_OAKCSF
WSTLYLSBN_BG	TDZ2	NP15	TID	WESTLY_2_LOSBNS

2.2 New Resources, Participating Generator Agreements / Metered Sub-System Aggregator Agreements, resource renaming, Qualifying Facility Conversions, Power Purchase

The following new entities will be added to the C8 network model. The actual implementation date will be based on the parallel date of the generation resources.

Resource Name	Resource ID(s)
Puente Hills GTE Facility	RHONDO_6_PUENTE,
Palo Alto COBUG, (NCPA MSSAA)	PALALT_7_COBUG
Inland Empire Energy Center	INLDEM_5_UNIT 1 INLDEM_5_UNIT 2
Chiquita Canyon Landfill	SAUGUS_7_CHIQCN