



APPENDIX C

SCHEDULING PROCEDURES

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Section 1. Purpose

This document is the Appendix C to the Services Agreement between Northern California Power Agency (“NCPA”) and Placer County Water Agency (“Customer” or “PCWA”) dated _____, 20__ (the “Services Agreement”). It provides a detailed explanation of how Customer, acting as Scheduling Coordinator, shall submit and coordinate scheduling of energy and capacity bids to the CAISO. This document also explains how Customer can transmit such scheduling information to the CAISO by using the NCPA GUI and/or the Web Services to interface with NCPA’s scheduling and database systems.

Section 2. Scheduling Interface

1. GUI Interface

NCPA provides a user interface for each Scheduling Coordinator to transmit and provide scheduling information to the CAISO. The following is a description of the GUI Interface, and specific instructions for how to transmit and submit schedules and bids for energy and capacity.

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TECHNICAL INFORMATION FOR GUI INTERFACT
(PRE-SCHEDULER, PAGES AND DEAL MANAGER)

2. Web Services Interface

NCPA provides a user interface for each Scheduling Coordinator to transmit and provide scheduling information to the CAISO. The following is a description of the Web Services Interface, and specific instructions for how to transmit and submit schedules and bids for energy and capacity.

Web Services Interface Endpoint URLs

Name	URL
Scheduling Web Service End-Point at Primary Site	https://portal.ncpa.com/NCPA.Scheduling.WebService/SchedulingWebService.asmx
Scheduling Web Service WSDL	https://portal.ncpa.com/NCPA.Scheduling.WebService/SchedulingWebService.asmx?WSDL
ScheduleAndBid XML Schema	https://portal.ncpa.com/NCPA.Scheduling.WebService/XSD/ScheduleAndBid.xsd

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TECHNICAL INFORMATION FOR WEB SERVICES INTERFACE

Section 3. Timeline for Submitting Schedules using NCPA Web Service Interface

All schedules and bids shall be submitted in accordance with the scheduling timelines as further described below:

Schedule Type	PCWA Submission Deadline	CAISO Submission Deadline	Notes
Day Ahead Market Schedules	10:00 a.m.	10:00 a.m.	Day Ahead Market Schedules can be submitted to the CAISO up to seven days in advance.
Real Time Market Schedules	75 minutes prior to the start of the active hour	75 minutes prior to the start of the active hour	Real Time Market Schedules for each respective trade date can be submitted after the day ahead schedules results have been published by CAISO and retried by NCPA (normally shortly after 1:00 p.m.).

1. Timeline for Scheduling Bilateral Trades

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2. Timeline for Scheduling Inter-SC Trades

Customer may submit all types of Inter-SC Trades as many days in advance as needed. Real Time Inter-SC Trades are assigned special Schedule Names so they can be easily distinguished from Inter-SC Trades intended for the Day Ahead timeframe.

Schedule Type	PCWA Submission Deadline	CAISO Submission Deadline	Notes
Day Ahead Market Inter-SC Trades	12:00 a.m.	12:00 p.m. (noon) the day before the Operating Day	Day Ahead Market Inter-SC Trades can be submitted to the CAISO up to seven days in advance.
Real Time Market Inter-SC Trades	105 minutes prior to the active hour	45 minutes prior to the active hour	Real Time Market Inter-SC Trades can be submitted to the CAISO one day in advance.

Section 4. Bid Structure Requirements

1. Day Ahead Market Bid Structure Requirements

The following rules apply to the structure of day ahead market schedules and bids:

Rule	Rule Description	Notes

2. Real Time Market Bid Structure Requirements

The following rules apply to the structure of real time market schedules and bids:

Rule	Rule Description	Notes

3. Energy Bid Curve Structure Requirements

The following rules apply to the structure of energy bid curves:

Rule	Rule Description	Notes

4. Internal Final Schedule Structure Requirements

The following rules apply to the structure of internal final schedules:

Rule	Rule Description	Notes

5. Inter-Tie Schedule Structure Requirements

The following rules apply to the structure of inter-tie schedules:

Rule	Rule Description	Notes

TSIN Names

Each full network model the CAISO releases contains registered scheduling points for the Inter-ties. The following table below captures the TSIN names from the current full network model that are available for scheduling in NCPA’s scheduling software:

TSIN Names		
UPDATE REQUIRED		
BLYTHE161	MARBLE60	PARKER230
CFEROA	MARKETPLACE	PVWEST
CFETIJ	MCCULLOUG500	RANCHOSECO
CRAG	MDWP	RDM230
CTW230	MEAD230	SILVERPEAK55
DEVERS230	MEAD2MSCHD	STANDIFORD
ELDORADO230	MEAD5MSCHD	SUMMIT120
ELDORADO500	MIR2	SYLMAR
FOURCORNE345	MOENKOPI500	TESLA230
GONIPP	MOHAVE500	TRCYCOTP
IPP	MOHAVE69	TRCYCOTPISO

TSIN Names		
UPDATE REQUIRED		
IVLY2	NML230	TRCYPGAE
LAKE	NOB	WESTLYLBNS
LLL115	NORTHGILA69	WESTLYTSLA
LUGO	OAKDALE	WESTWING500
MALIN500		

Section 5. Scheduling Examples

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