



Energy. Environment. Market Integrity.

PAC7 Customer Specific Procedure

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I. Procedure

Commencing on January 1, 2012, PacifiCorp Transmission (PAC7) will begin to offer transmission services on its Malin 500-Round Mountain No. 2 transmission path. PAC7 has elected to operate this Path within the CAISO Balancing Authority Area as a Non-Participating Transmission Owner. Below is the breakdown of the transmission capacities that will be offered:

Start Date	End Date	Capacity (MWs)
01/01/2012	12/31/2012	300
01/01/2013	12/31/2016	400
01/01/2017	12/31/2017	500
01/01/2018	No end Date	800

Call Services

APX is the Scheduling Agent with the CAISO for PAC7. APX will be communicating with PAC7 personnel and PAC7 counterparties to facilitate any instructions or inquiries PAC7 receives from CAISO and/or any other BA (Balancing Authority).

Whenever APX engages in verbal communication with CAISO, APX should be sure to adhere to the three-way communication requirement set forth in WECC and NERC standards.

All calls shall be received and made on recorded lines.

Day-Ahead (DA) Scheduling Process – Pre DAM

1. PAC7 personnel will communicate/coordinate with the Third Party Clients (whom they have sold the transmission capacity to) the workbook template for scheduling DA Energy.
2. Third Party Clients will input information into the workbook template for scheduling DA Energy. All scheduling information for a given day will be sent to the APX Helpdesk, helpdesk@apx.com, via email utilizing the same workbook for each day by the deadlines described below. This is necessary to show both Day Ahead schedule information and hourly adjustments in one communication medium.
3. Third Party Clients will email workbook to the APX Helpdesk, helpdesk@apx.com no later than 08:00 PPT on a Day Ahead basis.
 - APX will store each workbook in the PAC7 folder.
4. APX will acknowledge receipt of the workbook schedules via email confirmation to the Third Party Clients and PAC with the Location and CRN mapping.
5. APX will aggregate total import schedules from Third Party Clients to ensure the total does not exceed the max yearly capacity stated above. This validation will also take into account whether there are any scheduled derates.
 - Add substeps in the event of derate, how to determine schedules and communicate.

6. APX will input the DA scheduling information (MW Qty, Location and CRN) into the APX MarketSuite® and upload the schedules to SIBR (CAISO Scheduling Information and Business Rules) prior to the CAISO DA Scheduling Deadline (i.e TD-1 @ 10:00 PPT). The schedules will generally consist of a Self-Schedule Import @ Malin (TOR/Usage).

- Imports

Excel References	Tie Point	CRN(s)	Limit
PAC7 @ COB	PAC7_MALIN500_I_F_[Buyer/SCID]	PAC7_[Buyer/SCID]	PAC7 to communicate amount each Third Party is allowed to schedule.

7. APX will ensure that the scheduling information meets all of CAISO’s validations in order to maintain priority. APX will verify in APX MarketSuite no Import/TOR schedules exceed the indicated in the yearly capacity breakdown.

- Priority Flag = YES

- i. If Priority Flag = NO, APX is to call PAC7 and inform them of the scheduling error as one of the following could have occurred:

1. Derate on the Line – thus reducing the capacity allowed for scheduling.

- a. APX will communicate to the Third Party Clients their allocated shares.

2. Overscheduling by Third Party Clients – Exceeds the yearly capacity breakdown.

- a. APX will escalate to PAC7 personnel and request that they verify/work with Third Party Clients to ensure they schedule within the agreed upon amounts.

- Balance Flag = YES

- i. If Balance Flag = NO, APX is to call the Third Party Clients to inform them that the LSE (Load Serving Entity) of whom they contracted needs to submit the matching schedule (MW Qty and CRN).

8. APX will coordinate internally to verify that the scheduling data was submitted in accordance to the workbook templates and meet CAISO validations. This check will be completed by a Pre-Scheduler, Relief Operator, or a Supervisor.

9. Third Party Clients to conduct Day-Ahead tagging of the import schedules.

- **Note:** If there are any cuts (i.e. reduction to the import schedule), APX will communicate the information to the Third Party Clients so that the schedule is tagged accordingly. This will be communicated within 30 minutes of CAISO Day-Ahead Awards publication.

Hour Ahead (HA) Scheduling Process

After the close of the DA market on the day prior to the Trading Day, Third Party Clients may elect change to their schedules.

1. Third Party Clients will input scheduling information into the workbook for any HA changes. All scheduling information for a given day will be sent to the APX Helpdesk, helpdesk@apx.com, via email utilizing the same workbook for each day by the deadlines described below. This is necessary to show both Day Ahead schedule information and hourly adjustments in one communication medium.
2. Third Party Clients will email the workbook to the APX Helpdesk, helpdesk@apx.com no later than 45 minutes prior to the close of the CAISO Hour Ahead Market(120 minutes prior to energy flow)
 - For example, a change for HE16 would need to be sent to the APX Helpdesk no later than 13:00 PPT for the scheduling day.

APX has discretion to reject changes sent after the deadline of 120 minutes prior to energy flow.

3. If APX receives any HA changes from Third Party Clients, please contact the appropriate Clients to clarify what the new schedule should be. They should be indicating the new total in the spreadsheet NOT the incremental change. Since HA changes are expected to be infrequent it is best to verbally confirm the new value.
4. APX will input/adjust the Self-Schedules into the APX MarketSuite® and submit the schedules to SIBR. The schedules will consist of the same parts as discussed in the DA Scheduling Section 5. Care must be taken to ensure these are all input correctly. Once scheduling is complete, APX will respond to the Third Party Clients email with an e-mail and verbal confirmation.
 - **Note:** In the event email is unavailable, facsimile communication shall be utilized
5. APX will coordinate internally to verify that the scheduling data was submitted in accordance to the workbook templates and meet CAISO validations. This check will be completed by a Pre-Scheduler, Relief Operator, or a Supervisor.
6. Third Party Clients to conduct Real-Time tagging of the import schedules.
 - **Note:** If there are any cuts (i.e. reduction to the import schedule), APX will communicate the information to the Third Party Clients so that the schedule is tagged accordingly. This will be communicated once the 'Hourly Pre-Dispatch Instructions' are communicated via ADS (Automated Dispatching System) – XX:06 PPT. (See below 'ADS Monitoring – Hourly Pre-Dispatches' section for further information)

Real-Time Scheduling

- TOR Usage Rights
 - Third Party Clients will not be able to perform any Real-Time Scheduling.
 - APX will be the party that communicates with the CAISO or other entities regarding Real-Time Schedule changes. Upon retrieving the information, APX will coordinate with the Third Party Clients accordingly to have schedules/tags reduced.
- E-Tags
 - Third Party Clients will be the responsible entity for the creation and adjustment of tags. APX will have no visibility to tags.

ADS Monitoring – Hourly Pre-Dispatches

- Following receipt of the hourly pre-dispatch instructions for any of PAC7’s intertie schedules APX should perform the following:
 - Verify that the dispatch amount (i.e. ‘Hourly DOT’) matches the DAM/HASP schedule(s).
 - APX will **NOT ACCEPT** any pre-dispatches unless there are expected changes (i.e. intentional increases/decreases to schedules). Third Party Clients will communicate via email the revised schedules, and thus once scheduled, the instructions will need to be accepted, otherwise the ISO will cut the tag or schedule (whichever is less).
 - APX will follow-up with the CAISO upon notification of a schedule cut (i.e. unexpected change – initiated by CAISO). APX will then communicate the details to Third Party Clients.

OASIS Monitoring

-- Section to be filled out once CAISO has communicated what is expected of PAC7 Pre-DAM (if any).

CAISO System Message Monitoring

-- Section to be filled out once CAISO has communicated the process on what is expected of PAC7 upon a derate/OTC (Overall Transfer Capability) on Malin change.

- APX will query SIBR twice an hour XX:25 and XX:33 prior at to the scheduling hour to ensure that the Import schedules maintain priority. It is noteworthy that the CAISO has adjusted priority prior to the scheduling hour without publishing a message indicating that there has been a change to the OTC (Overall Transfer Capability). In these events, APX will use best efforts to coordinate with the CAISO and communicate possible schedule revisions prior to the close of the Hour-Ahead deadline.

PAC7 Contact Information

Pacificorp Transmission

Name	Phone Number	Secondary Number	Fax Number	Email

Buyer 1

Name	Phone Number	Secondary Number	Fax Number	Email

[Buyer 2]

Name	Phone Number	Secondary	Fax Number	Email

		Number		