

2018 ITP Near-Term (“ITPNT”) Updated Final Models Posting

The 2018 ITPNT models, built in accordance with the TWG recommendation made on September 20, 2017, have been posted for member review. The posted model set includes all Scenario 0, Scenario 5, Base Reliability, and DC Tie Scenario 5 Sensitivity cases. The list of changes to the models are provided in the posted file *2018 ITPNT Model Corrections_9-27-17.xlsx*.

Please provide comments and feedback for staff consideration **by October 4, 2017** via the [SPP Request Management System \(RMS\)](#).

Additionally, the SPP BA models are being updated and SPP will provide a list of constraints for Member review on September 29, with feedback requested by October 4. The SPP BA models will be provided on October 6, with feedback requested by October 13.

As a reminder, the following models are required for analysis per the 2018 ITPNT scope:

Description	Scenario 0	Scenario 5	DC Tie Sensitivity (Scenario 5)	Base Reliability Scenario	SPP BA
Year 2 (2019)	Summer Peak Winter Peak	Summer Peak Winter Peak	Winter Peak ¹	Summer Peak	Summer Peak Winter Peak
Year 5 (2022)	Summer Peak Winter Peak Light Load	Summer Peak Winter Peak Light Load	Winter Peak	Summer Peak	Summer Peak Winter Peak Light Load

Information for obtaining the 2018 ITPNT models

In order to obtain access to these documents in TrueShare, stakeholders must provide SPP with a signed [confidentiality agreement](#). Instructions can be obtained by clicking on the link. Please submit these forms via **RMS** through the “Request TrueShare Access” Quick Pick. After the executed confidentiality agreement is received, an account will be created for the requester on TrueShare. An email with instructions for logging on will be sent to requester. For those that already have a TrueShare account, no additional action is necessary.

As a reminder, instructions for accessing the model information can be found on the SPP website [here](#).

These files can be found on TrueShare under “Integrated Transmission Planning – Confidential and Protected Material and or Critical Energy Infrastructure Information-Do Not Release → 2018 ITPNT” in the “[2018 ITPNT Powerflow Models Final](#)” folder.

¹ This model will only be used for the staging of potential transmission projects selected to mitigate 2022 violations.

FILE Information

2018 ITPNT Final files

File Name	Description
2018 ITPNT Final Sav Cases V33.zip	Models in .SAV file format
2018 ITPNT Final Raw Cases V33.zip	Models in .RAW file format
2018 ITPNT Final Xactions.zip	Transactions included in models
2018 ITPNT Final Docucheck.xlsx	SPP DocuCode
2018 ITPNT Final NTC Check.xlsx	Spreadsheet comparing TAGIT NTC ratings vs model ratings
2018 ITPNT Model Corrections_9-27-17.xlsx	List of model corrections applied to the 2018 ITPNT models

Brief Description of Scenario Models:

Scenario 0 is modeled to be as similar as possible to the Model Development Working Group (MDWG) models, but with unconfirmed transactions removed and generation without service agreements removed. The topology of the models is built from Models on Demand (MOD) according to the approved MOD Project matrix. SPP areas and several embedded Load Serving Entities (LSE) were dispatched using generation included in the Designated Network Resource (DNR) file along with member feedback.

Scenario 5 has the same topology as scenario 0, but with all wind reservations set to maximum capacity. All confirmed transmission service between two separate areas or LSEs are set to maximum capacity of the reservation, as well. In seasons where there is not enough load to max out all transactions, the transactions are decreased on a prorated basis.

The Base Reliability scenario models assume expected long-term firm transmission service usage levels. Renewable resources are dispatched at each facility's latest 5-year average for the SPP coincident summer peak², not to exceed each facility's firm service amount. In the event that 5 years of historical renewable resource output data is unavailable, SPP will follow the TWG-approved data replacement methodology. The Base Reliability has the same topology as the Summer Peak models of the respected year.

Brief Description of SPP BA Models:

SPP BA models have the same topology as scenario 0, 5, and Base Reliability models. The SPP BA models are built by performing a Security Constrained Economic Dispatch (SCED) on the latest pass of the ITPNT Scenario 0 models while treating SPP as a single balancing authority. The overall SPP interchange, DC ties, and generation outside of SPP was unchanged.

Helpful Links

- [Transmission Owner Selection Process \(formerly Order 1000\) home page](#)
 - [Order 1000 Documents](#)
 - [Detailed Project Proposal \(DPP\) page](#)

²SPP coincident summer peak equals the highest demand including transmission losses for energy measured over a one clock hour period.

- [SPP Transmission Planning Page](#)
 - All notice postings previously on the SPP.org home page are now on this page
 - ITP Postings (formerly in Order 1000 Documents folder) [here](#)
- SPP Request Management System ([SPP RMS](#)) is the preferred method for inquiries and data submissions. Click on this link and then “Register Now” if you are not already registered.
 - Quick Picks to use in RMS:
 - “**ITP – Project Inquiry**” Quick Pick for questions/comments regarding projects
 - “**ITP – Modeling Inquiry**” Quick Pick for input regarding modeling questions and changes
 - “**ITP – DPP Submittal**” Quick Pick for DPP submissions
 - “**ITP – Data Submission**” Quick Pick for responses to ITP data requests and surveys from SPP
 - “**Request TrueShare Access**” Quick Pick for access to TrueShare for models
- [SPP RMS](#) is the preferred method for receiving all inquiries and solution submittals.