

2019 ITP Preliminary Model Information - Pass 2

The Pass 2 powerflow models and supplemental data for the 2019 ITP have been posted to TrueShare. The models are being built using PSS®E version 33.10. **Please provide feedback by Monday, November 20 through the Model on Demand (MOD) and the SPP Request Management System (RMS)** using the “ITP – Modeling Inquiry” Quick Pick. All modeling data needs to be reviewed for accuracy and any erroneous data updated in order to avoid delays to the 2018 MDWG/ 2019 ITP model build schedule; therefore, all Data Submitters need to follow all instructions provided and review all the posted data.

As a reminder, the following models will be used for the 2019 ITP:

- 2021 Base Reliability Light Load, Summer, and Winter models
- 2024 Base Reliability Light Load, Summer, and Winter models
- 2029 Base Reliability Light Load, Summer, and Winter models

Modeling Contacts are requested to review the following:

- 1) Please verify topology is modeled appropriately
 - a. Please submit topology updates as PSS®E version 33 idev files through [RMS](#) or [MOD](#).
 - i. When submitting projects and profiles to MOD or post processing idevs, please use the following naming convention:
 1. Prefix the project/profile name with your owner/area number underscore company name underscore XXXX OR company name underscore XXXX if you do not have an area/owner number. For example:
 - a. **Project name:** 525_WFEC_Midwest-Franklin_Rebuild.prj or Nextera_Add_GenX.prj
 - b. **Profile name:** 659_BEPC_2017MDWGP4-18S or Nextera_2017MDWGP4-18S
 - ii. The file name should be separated by underscores instead of spaces (e.g., 525_Patent_Gate.prj)
 - iii. For NTC projects, include the UID or PID number at the end. For example, 659_Patent_Gate_UID300.prj or 659_Patent_Gate_UID300.idv

Other Important Notes

- The posted models contain the latest SPP data currently housed in the SPP MOD database and external data from the 2017 MMWG model series. SPP merged the 2018 series data with the final build of the 2017 series MMWG Eastern Interconnection models (The [2018 Series MDWG Alignment with MMWG.xlsx](#) workbook shows the mapping of MMWG to SPP models). The models were solved with both area interchange enabled and disabled. A few modeling areas had to be scaled in some seasons in order to get the models to solve; these areas are listed in the [2018MDWGP2_Scaled_Areas.xlsx](#) spreadsheet.
 - In order to produce a healthier model in the next pass, Data Submitters who haven't provided any load and generation profiles are required to submit the data for pass 3. Furthermore, entities should verify their system topology and transactions for accuracy as SPP staff encountered many issues during the model solving process. SPP staff will also reach out to individual Data Submitters to rectify some of the issues encountered.

- Because the solved models were not posted per schedule, entities will be given one more day to submit data for pass 3. This change is reflected in the due date for pass 3 data.
- Some topology errors that have been flagged in the docucode workbook since pass 0 are still persisting in the pass 2 models. Data Submitters should ensure that these errors do not continue to propagate throughout the model build.

Transactions/Load & Generation Profiles: All transactions, load and generation profiles should be verified for accuracy

1. Data Submitters should continue updating the following data:
 - a. **Transactions:** Coordinate transactions with pertinent entities and submit via the data submittal workbook to SPP. The **data submittal workbook** (posted on TrueShare) should be updated (**only highlight the changes**) with the coordinated transactions and uploaded to TrueShare. Transactions will be incorporated in the SPP master file once the counter party has also provided corresponding updates. For transactions with entities external to SPP, SPP's modeling practice is for entities to provide proof of coordination emails with the external entities before the transactions are updated in the master data submittal workbook.
 - i. Entities external to SPP but participating in the SPP model build can also update transactions and submit an updated data submittal workbook.
 - b. **Generation and Load Profiles:** Generation and load profiles for all the seasonal models being built should be submitted via MOD. Load profiles should also be provided for the 8 unique ITP models (refer to the model build schedule).
 - i. Non-PSS/E users can utilize the Gen and Load Overview tabs in the **Non-PSSE Users.xlsx** workbook to make adjustments to their generation and/or load forecasts for each requested model. Simply filter for the relevant data and update the seasonal data. Please **highlight** any changes so that SPP Staff can easily discern your changes. SPP will convert the data into raw data file format and upload to MOD on your behalf.
 1. Remember to prefix the non-PSSE users workbook with your company name and/or owner number (e.g., 813_LPL_non-psse users.xlsx)

The 2018 series MDWG and 2019 ITP models are being built in parallel; however, the models will be posted separately. Please refer to the model build schedule located on the SPP corporate website under the MDWG page ([2019 ITP and 2018 Series MDWG Powerflow and Short Circuit Model Build](#)) for the different deadlines and milestones.

Information for obtaining the 2019 ITP 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 → “2019 ITP” in the “2019 ITP Powerflow Models” in the “Pass 2” folder.

FILE Information

File Name	Description
2019 ITP Pass 2 Raw V33.zip	Models in .RAW file format
2019 ITP Pass 2 SAV V33.zip	Models in .SAV file format
2019_ITP_Pass_2_Docuccheck.xlsx	SPP DocuCode
2019_ITP_Pass_2_NTC_Check.xlsx	Workbook comparing TAGIT NTC ratings vs model ratings

Brief Description of Scenario Models:

The Base Reliability scenario models assume expected long-term firm transmission service usage levels. Wind and Solar resources are dispatched at each facility's latest 5-year average for the SPP coincident summer peak¹ in the Summer Peak models as well as the SPP coincident winter peak in the Winter Peak models. Wind resources are dispatched at 100% of the Long-term Firm Transmission Service amount in the Light Load models, while Solar is dispatched at its historical average, which is typically 0 MW during the Light Load timeframe.

In all Base Reliability models, the Wind and Solar are 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.

Helpful Links

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

¹SPP coincident summer peak equals the highest demand including transmission losses for energy measured over a one clock hour period.