

## 2019 ITP Base Reliability (BR) Pass 5b Models

An updated set of 2019 ITP BR Pass 5b models is being made available to stakeholders after incorporating the balance of a specific set of 157 ITP modeling updates initially received by SPP staff after the February 22, 2018, Pass 5 model posting date. These model updates were not included in the Pass 5a model posting, which included 19 critical model changes from the list of 157 updates. However, these 134 model updates are being included based on the results of their completed ITP Model Section 9.3 evaluations. Two idev model changes received subsequent to the 157 initial idev model changes were also evaluated per Section 9.3 of the [ITP Manual](#) and determined to be critical updates for upcoming milestones; therefore, they are also being included in this model update. Note that all idevs being implemented were received after the February 1, 2018, Pass 5 deadline for Stakeholder data submission to SPP. The 2019 ITP Model Update Matrix, models, and associated idev files for these model updates have been posted to GlobalScape. The posted documents reflect the list of 134 model updates applied to the 2019 ITP models with this update.

Some modeling updates received after the February 22, 2018, Pass 5 model posting date and subsequent to the initially received 157 model updates were not included in this update to the 2019 ITP BR models. SPP staff will assess the remaining model updates that were excluded per the requirements of the [ITP Manual](#), Section 9.3, for finalization later in the process. The 2019 ITP BR models and Economic models will be updated in early August 2018, with the addition of any SPP Board-approved NTC additions, modifications or withdrawals, as well as any requested NTC re-evaluations, which is consistent with the Transmission Planning Improvement Task Force (TPITF) whitepaper.

The models are being built using PSS®E version 33.10. Stakeholders are requested to please review the updated 2019 ITP BR Models to verify that their changes have been accurately implemented. **Please provide feedback by Tuesday, May 15 through 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 2019 ITP model build schedule. The TWG will be requested to approve the updated 2019 ITP BR Models Pass 5b after the Stakeholder review period has ended.

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

### Material Disclaimer

**CONTAINS CONFIDENTIAL AND PROTECTED MATERIAL AND/OR CEII – DO NOT RELEASE**

**Information for obtaining posted data:**

These files can be found on GlobalScape under: ITP → ITP → NCD (CEII, RSD) → [NDA](#) → [2019 ITP](#) → [2019 ITP Powerflow Models](#) → [Pass 5b](#)

File Name	Description
2019_ITP_Model_Update Matrix_Pass5b_Modeling.xlsx	List of model updates for the 2019 ITP BR pass 5b models
2019_ITP_BR_Pass5b_Model_Updates.zipx	Model updates for the 2019 ITP BR pass 5b models
2019_ITP_BR_Pass5b_Raw_v33.zip	2019 ITP BR pass 5b models in .RAW file format
2019_ITP_BR_Pass5b_Sav_v33.zip	2019 ITP BR pass 5b models in .SAV file format
2019_ITP_BR_Pass5b.xlsx	2019 ITP BR pass 5b models SPP DocuCode

In order to obtain access to these documents in [GlobalScape](#), 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 Globalscape Access” Quick Pick. After the executed confidentiality agreement is received, an account will be created for the requester on [GlobalScape](#) and an email with instructions for logging in will be sent to the requester. For those that already have a [GlobalScape](#) account, no additional action is necessary.

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

*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 peak<sup>1</sup> 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.

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

- Quick Picks to use in RMS:
  - **“Request Globalscape Access”** Quick Pick for access to GlobalScape for models
  - **“ITP-Project Inquiry”** Quick Pick for questions/comments regarding projects
  - **“ITP-Modeling Inquiry”** Quick Pick for input regarding modeling
  - **“ITP-DPP Submittal”** Quick Pick for DPP submissions
  - **“ITP-Data Submission”** Quick Pick for responses to ITP data requests and surveys from SPP
- [SPP RMS](#) is the preferred method for receiving all inquiries and solution submittals.