

## 2021 ITP Base Reliability (BR) Powerflow Final Model Information

- **Action Required**

The 2021 Integrated Transmission Planning Assessment (ITP) Final BR Powerflow models and supplemental data have been posted to [GlobalScape](#). SPP staff is posting these updated models for stakeholder awareness, review, and approval of the updated 2021 ITP BR powerflow final pass models for use in the 2021 ITP assessment. Please verify topology is modeled appropriately.

**SPP staff will be requesting a motion for approval of the 2021 ITP BR Powerflow Final model information via email next week.**

As a reminder, the following Base Reliability models will be used for the 2021 ITP:

- 2023 Base Reliability Light Load, Summer, and Winter models
- 2026 Base Reliability Light Load, Summer, and Winter models
- 2031 Base Reliability Light Load, Summer, and Winter models

The 2020 series MDWG and 2021 ITP models were built in parallel; however, the models are posted separately. Please refer to the model build schedule located on the SPP corporate website under the MDWG page ([2020 Series MDWG Powerflow and Short Circuit Model Build](#)) for the different deadlines and milestones.

Note: PSS®E version 34 models are posted on GlobalScape at the link below; PSS®E version 33 models are available upon request.

- **Entities Required to Provide Feedback:**

All interested stakeholders, primarily TWG and MDWG stakeholders

- **Due Date and Method of Submittal**

**SPP will solicit a motion for approval from TWG via email next week to approve the final 2021 ITP BR Powerflow Models for use in the 2021 ITP assessment.**

- **Changes from Last Pass**

- Section 10.3 Updates
  - OPPD – Delivery point addition DPA-2018-OCTOBER-949 into the 2021 ITP model build.
    - Non-scalable load update
  - Boundary Dam PST tolerance adjustment
    - Widen Voltage tolerance to allow model to solve easier
  - Neset line retermination
    - Move termination point from Tande to Northshore to Neset to Northshore 230 kV
  - Every reactive setting and 69 kV rating adjustment
    - Switched shunt and LTC setting changes
    - Chisholm – Grant 69kV line rating update from 55/60 MVA to 120 MVA A/B
  - R Project update (GGs-Theford-Holt County 345 kV line) to move the ISD back to early 2024

- From NPPD, the update disconnects the 345 and 14.2 kV buses of a 3 winding XFMR in 2021 – 2023 models.

- **Material Disclaimer**

CONTAINS CONFIDENTIAL AND PROTECTED MATERIAL NOT AVAILABLE TO COMPETITIVE DUTY PERSONNEL  
– DO NOT RELEASE

- **File location on [GlobalScape](#)**

*For users who have signed an SPP non-competitive duty NDA:*

This file can be found on GlobalScape under: ITP → ITP → NCD (CEII, RSD) → NDA → 2021 ITP → Powerflow Models in the “[Final Powerflow Models](#)” folder.

File Name	Description
2021 ITP BR Final Raw V34.zip	Models in .RAW file format and .SEQ data
2021 ITP BR Final Sav V34.zip	Models in .SAV file format
2021 ITP BR Final Docucheck.xlsx	SPP DocuCode
2021 ITP BR Final NTC Check.xlsx	Workbook comparing TAGIT NTC ratings vs model ratings
2021 ITP BR Final Dispatch Results.xlsx	Transactions, shortfall, and potential dispatch errors
2021 ITP BR Model Update Matrix_3C.xlsx	Workbook detailing changes made to model set
2021 ITP BR Compare3b-3c.zip	Workbooks comparing previous and current models

- **Helpful Links and Access**

If you do not already have access to these documents in [GlobalScape](#), see the instructions for [confidentiality agreements](#) and submit the appropriate form via [RMS](#) using the “GlobalScape Access Request” Quick Pick. Other helpful links can be found on [SPP.org](#).