

## 2020 ITP Base Reliability Powerflow and Short-Circuit Final Models

- **Action Required**

SPP staff requests stakeholder’s review for approval of the final 2020 ITP Base Reliability (BR) powerflow and short-circuit models, including supplemental data for the 2020 ITP assessment which have been posted to [GlobalScape](#). The models are being built using PSS®E version 33.11.

Please note the updated transaction and Master Tie Line (MTL) data was exported from the Engineering Data Submission Tool (EDST) for Final Pass.

As a reminder, the following Base Reliability models will be utilized in the 2020 ITP:

- 2022 Base Reliability Light Load, Summer, and Winter models
- 2025 Base Reliability Light Load, Summer, and Winter models
- 2030 Base Reliability Light Load, Summer, and Winter models

As a reminder, the year 2 summer peak Short-Circuit model will be used for the 2020 ITP Short-Circuit assessment in consideration of NERC Standard TPL-001-4.

The 2019 series MDWG and 2020 ITP models were built in parallel; however, the models were posted separately. Please refer to the model build schedule located on the SPP corporate website under the MDWG page ([2020 ITP and 2019 Series MDWG Powerflow and Short Circuit Model Build](#)) for the different deadlines and milestones.

- **Entities Required to Provide Feedback**

All interested stakeholders

- **Due Date and Method of Submittal**

**SPP will solicit a motion from TWG via email vote November 11, 2019 to approve the final 2020 ITP BR Powerflow and Short-Circuit Models for use in the 2020 ITP assessment.**

- **Changes from Last Pass**

See 2020 ITP Model Update Matrix.xlsx posted on GlobalScape.

- **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:*

The BR powerflow model files can be found on GlobalScape under: ITP → ITP → NCD (CEII, RSD) → NDA → 2020 ITP → Final → 2020 ITP Powerflow Models in the “[Final Powerflow Models](#)” folder.

File Name	Description
2020 ITP Final Raw V33.zip	Models in .RAW file format
2020 ITP Final Sav V33.zip	Models in .SAV file format
2020 ITP Final Docucheck.xlsx	SPP DocuCode
2020 ITP Final NTC Check.xlsx	Workbook comparing TAGIT NTC ratings vs model ratings

File Name	Description
2020 ITP Final Dispatch Results.xlsx	Transactions, shortfall, and potential dispatch errors
2020 ITP Model Update Matrix.xlsx	Workbook detailing changes made to model set

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

The short-circuit model files can be found on GlobalScape under: ITP → ITP → NCD (CEII, RSD) → NDA → 2020 ITP → 2020 ITP Short-Circuit Models in the “Final” folder.

File Name	Description
2020 ITP SC Final Sav.zip	Short-circuit models in PSSE version 33
2020 ITP SC Final Raw & Seq.zip	Short-circuit models in raw and seq format
Max_Fault_Offline_Facilities.idv	Facilities that should not be online for the max fault scenario
2020 ITP SC Final DocuCode.xlsx	List of possible errors that need reviewing
Preliminary Bus Fault Current.xlsx	Preliminary bus-fault and line-outs results

- **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](#).