

2024 ITP Preliminary Winter Storm Elliott Powerflow Model Information

- **Action Required**

SPP staff is requesting stakeholder feedback on the 2024 ITP Winter Storm Elliott Powerflow models and supplemental data posted today, as follows:

- Please verify devices (inductors, reactors, capacitors, etc.) and other reactive settings are modeled appropriately.

As a reminder, SPP staff built these models based upon 2024 ITP BR winter models using capacity reductions and load distribution reflected during Winter Storm Elliott and approved by the TWG and ESWG. Guidance for “Extreme Winter Weather Scenario” model build is laid out in the “2024 ITP Assessment Scope”. Key generator outages impacted power flow in the footprint of central, western, south-central, and southwest Missouri and northwest Arkansas.

SCRD (Security-Constrained Redispatch) is an add-on through TARA that enables TARA to use a high-performance algorithm to reduce thermal constraints, while minimizing dispatch changes from the base case. This functionality has been utilized on these models. Significant thermal or voltage violations may be prevalent. Final models will utilize the SCR functionality again to avoid thermal loading and may consider the inclusion of load shed, if a security constrained dispatch honoring all limits is not viable.

- **Entities Required to Provide Feedback:**

All interested stakeholders, primarily TWG and MDAG stakeholders

- **Due Date and Method of Submittal**

Please provide feedback by **Monday, November 20, 2023** through **MOD**. For any questions or feedback, please submit those by **Monday, November 20, 2023** through the SPP Request Management System (**RMS**) using the “Submit an Inquiry” Request Template, “Integrated Transmission Planning (ITP)” Subtype 1, and “Data Submission” Subtype 2.

- **Changes from Last Pass**

N/A

- **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 → 2024 ITP → Powerflow Models → “Extreme Winter Weather” folder.

File Name	Description
MOD033ElliotModel_23W_V35_solved_P1.zip	23W case in PSSE v35 sav and raw format
MOD033ElliotModel_28W_V35_SCRD_solved_P1.zip	28W case with SCRD in PSSE v35 sav and raw format

- IMPORTANT NOTE**

- These models are **NOT** final and subject to change.

- 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 “Initiate a System Access Action” **Request Template**, “Globalscape File Sharing” **Subtype 1**, “Add User” **Subtype 2** and “SPPDocushare / Engineering / TCR Models”. [GlobalScape](#) frequently asked questions can be found in [Knowledgebase Article 686](#). Other helpful links can be found on [SPP.org](#).