

2024 ITP Proposed Final Winter Storm Uri & Elliott Powerflow Models Information

- **Action Required**

SPP staff is posting the 2024 ITP Winter Storm Elliott & Uri Powerflow final models and supplemental data posted today:

- Please verify RMS feedback was applied correctly.

SPP staff will be requesting vote approval via email on November 29th, 2023.

As a reminder, SPP staff built these models based upon 2024 ITP BR winter models using capacity reductions and load distribution reflected during Winter Storms Elliott and Uri. The 2023 Winter Elliot model used the 23W 2022 Series MDAG model as a base topology per the scope of the MOD-33-2 process. These were 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 SCRd 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**

SPP will solicit approval via email on Wednesday, November 29, 2023 for the final Elliott & Uri models for use as part of the 2024 ITP assessment.

- **Changes from Last Pass**

The models have been updated with RMS feedback.

- **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
2024ITP-PF-25W_12_SCRD_Gen_Solved.raw	25W Uri Model as .raw
2024ITP-PF-28W_12_SCRD_Gen_Solved.raw	28W Uri Model as .raw
2024ITP-PF-33W_12_SCRD_Gen_Solved.raw	33W Uri Model as .raw
2024ITP-PF-25W_13_SCRD_Gen_Load_Solved.raw	25W Uri Model with load shed as .raw
2024ITP-PF-28W_13_SCRD_Gen_Load_Solved.raw	28W Uri Model with load shed as .raw
2024ITP-PF-33W_13_SCRD_Gen_Load_Solved.raw	33W Uri Model with load shed as .raw
2024ITP-PF-25W_12_SCRD_Gen_Solved.sav	25W Uri Model as .sav
2024ITP-PF-28W_12_SCRD_Gen_Solved.sav	28W Uri Model as .sav
2024ITP-PF-33W_12_SCRD_Gen_Solved.sav	33W Uri Model as .sav
2024ITP-PF-25W_13_SCRD_Gen_Load_Solved.sav	25W Uri Model with load shed as .sav
2024ITP-PF-28W_13_SCRD_Gen_Load_Solved.sav	28W Uri Model with load shed as .sav
2024ITP-PF-33W_13_SCRD_Gen_Load_Solved.sav	33W Uri Model with load shed as .sav
MOD033ElliottModel_23W_V35_solved_PF.zip	23W Proposed Final, .raw and .save files for Elliott
MOD033ElliottModel_28W_V35_SCRD_solved_PF.zip	28W Proposed Final, .raw and .save files for Elliott

- 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](#).