

2020 ITP Market Powerflow Models (MPM) – Updated Final Information

- **Action Required**

SPP has posted the updated final 2020 ITP MPM to [GlobalScape](#) for stakeholder review and approval. **SPP staff will be requesting re-approval of the updated final 2020 MPM from TWG via email on March 20, 2020.**

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

- 2022 Future 1 Market Powerflow On-Peak and Off-Peak models
- 2025 Future 1 and Future 2 Market Powerflow On-Peak and Off-Peak models
- 2030 Future 1 and Future 2 Market Powerflow On-Peak and Off-Peak models

- **Entities Required to Provide Feedback**

All interested stakeholders, TWG members

- **Due Date and Method of Submittal**

SPP staff will be requesting re-approval of the updated final 2020 MPM from TWG via email on March 20, 2020. Please review and provide any feedback via the SPP Request Management System (**RMS**) under the “ITP-Data Submission” Quick Pick.

- **Changes from Last Pass**

- Applied non-conforming load updates
- Applied proxy SPSNMTIES interface as follows to the 2020 ITP Market Economic Model (MEM) Event file as a constraint to limit economic imports into SPS South area to improve transmission voltages in the SPS south area

Interface Congestion

Scenario	Constraint	Hours Binding	Congestion Score
F1 Y2	SPSNMTIES FLO BASE CASE	4,038	259,761
F1 Y5	SPSNMTIES FLO BASE CASE	2,750	143,890
F1 Y10	SPSNMTIES FLO BASE CASE	4,244	290,080
F2 Y5	SPSNMTIES FLO BASE CASE	3,474	506,314
F2 Y10	SPSNMTIES FLO BASE CASE	4,796	343,666

Unconstrained Flows across SPSNMTIES Interface prior to applying interface to MEM

MPM		MPM Reliability Hour	MPM Reliability Hour Ending	DC Flows (GW)
Y2	On-Peak	7/27/22 18:00	19	1.04
	Off-Peak	4/3/22 3:00	4	1.11
F1 Y5	On-Peak	7/23/25 18:00	19	1.15
	Off-Peak	4/5/25 1:00	2	1.17
F2 Y5	On-Peak	7/23/25 18:00	19	1.15
	Off-Peak	4/5/25 1:00	2	1.16
F1 Y10	On-Peak	7/24/30 18:00	19	1.31
	Off-Peak	4/1/30 1:00	2	1.34
F2 Y10	On-Peak	7/24/30 18:00	19	1.33
	Off-Peak	4/1/30 2:00	3	1.34

- **This resolution is consistent with Market Powerflow Model Reclassification (ITP Manual Section 4.2)** and additional instances of reclassification may also be identified during the MPM reliability needs assessment
- SPP will post the 2020 Needs Assessment with an updated Market Economic Model and an updated event file with the included interface as well as other warranted reclassification instances
- SPP will be posting a document with guidelines for addressing congested interface (similar to 2017 ITP10)

- **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:

These files can be found on GlobalScape under: ITP → ITP → NCD (CEII, RSD) → NDA → 2020 ITP → 2020 ITP Market Powerflow Models → in the “[2020 ITP MPM – Final](#)” folder.

File Name	Description
2020 ITP MPM-Updated Final Raw V33.zip	Models in .RAW file format
2020 ITP MPM-Updated Final Sav V33.zip	Models in .SAV file format
2020 ITP MPM-Updated Final Docucheck.xlsx	SPP Docucheck

- **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](#).