

2017 ITP 10-Year Assessment (ITP10) Economic Models Pass 3

Preliminary 2017 ITP10 economic models Pass 3 have been posted to Trueshare, in an effort to validate the input into the Constraint Assessment and Benchmarking milestones. The models will run in PROMOD, but SPP staff would ask stakeholders to continue focusing efforts on reviewing the model *inputs*. Staff is looking for feedback regarding the *application* of stakeholder approved items, the external resource plans, and generator outlet facilities (GOFs). Details regarding the current state of the PROMOD models are listed below. The economic models posted are representative of all three (3) Futures in 2020 and 2025. We are posting a preliminary event (EVE) file along with the model that is based on the NERC Book of Flowgates. SPP Staff is utilizing PROMOD IV 11.1.7 for the 2017 ITP10.

Staff will be seeking an email vote for approval of the use of these models for the Constraint Assessment and Benchmarking milestones on January 29 via a separate email. Final economic models will be posted and approved after the Constraint Assessment and Benchmarking milestones.

Special Notice Regarding New Requirement for Model Access

Due to the inclusion of MISO Critical Energy Infrastructure Information (CEII) data in these model, stakeholders will be required to complete and sign a MISO-SPP [CEII Non-Disclosure Agreement](#), in addition to the [standard SPP Confidentiality Agreement](#). The current models include MISO CEII data to enhance the modeling of regions external to SPP. Stakeholders that have already completed the joint CEII form due to participation in past studies are not required to re-execute. To obtain access to the applicable TrueShare folder identified below, please sign and return the MISO-SPP Non-Disclosure Agreement via the [SPP Request Management System](#) (RMS) using the "Request TrueShare Access" Quick Pick. The MISO-SPP Non-Disclosure Agreement is located on the [SPP website](#)¹ and does not supplant the requirement to also complete the SPP Confidentiality Agreement if you have not already done so, as described below.

The following has been incorporated into the PROMOD model:

- Final area structure
- SPP load and generation review data
- DC tie profiles
- Fuel prices (coal, natural gas, oil, uranium)
- Emissions/effluent prices
- External load and generation review data
- Transactions
- Final hurdle rates
- Custom Tables and Reporting Flags
- Updated generator and fuel data approved at October 22 ESWG meeting
- Approved Resource Plan – Phase 1 (RP1) and Resource Plan – Phase 2 (RP2) units and Siting Plans
- External Resource and Siting Plans
- Generator maintenance and forced outages
- Powerflow with TWG-approved Generator Outlet Facilities (GOF)
- Regional and State Carbon taxes for Futures 1 and 2

¹ http://www.spp.org/documents/22878/miso-spp_joint_ceii_nda.pdf

The following has **not** been incorporated into the PROMOD model:

- Benchmarking updates
- Constraints beyond the NERC Book of Flowgates

These files can be found on TrueShare under:

Trueshare >> Integrated Transmission Planning--Confidential and Protected Material and or Critical Energy Infrastructure Information-Do Not Release >> 2017 ITP10 >> Joint NDA – 2017 ITP10 Models

Files posted on TrueShare:

For users who license ABB nodal simulation ready software:

Folder or File Name	Description
ITP11720F1JAN12BAAJ	2020 Future 1 PROMOD Pass 3 Database (Staging Year)
ITP11725F1JAN12BAAK	2025 Future 1 PROMOD Pass 3 Database (Study Year)
ITP11720F2JAN12BAAL	2020 Future 2 PROMOD Pass 3 Database (Staging Year)
ITP11725F2JAN12BAAM	2025 Future 2 PROMOD Pass 3 Database (Study Year)
ITP11720F3JAN12BAAN	2020 Future 3 PROMOD Pass 3 Database (Staging Year)
ITP11725F3JAN12BAAO	2025 Future 3 PROMOD Pass 3 Database (Study Year)
2017ITP10 F1 2020 Forced Outages.LIB	Forced Outage File for 2020 Future 1 Model
2017ITP10 F1 2025 Forced Outages.LIB	Forced Outage File for 2020 Future 1 Model
2017ITP10 F2 2020 Forced Outages.LIB	Forced Outage File for 2020 Future 2 Model
2017ITP10 F2 2025 Forced Outages.LIB	Forced Outage File for 2020 Future 2 Model
2017ITP10 F3 2020 Forced Outages.LIB	Forced Outage File for 2020 Future 3 Model
2017ITP10 F3 2025 Forced Outages.LIB	Forced Outage File for 2020 Future 3 Model
2017ITP10_Constraint List_20151001_v2.eve	Preliminary Event File (compatible with all Futures and years)

These files can be found on TrueShare under:

Trueshare >> Integrated Transmission Planning--Confidential and Protected Material and or Critical Energy Infrastructure Information-Do Not Release >> 2017 ITP10 >> Joint NDA – 2017 ITP10 Modeling Data

For users who have signed an ABB NDA:

File Name	Description
2017 ITP10 F1 Economic Model Inputs_Pass 3.xlsx	Spreadsheet containing 2020 and 2025 PROMOD Database inputs for Future 1
2017 ITP10 F2 Economic Model Inputs_Pass 3.xlsx	Spreadsheet containing 2020 and 2025 PROMOD Database inputs for Future 2
2017 ITP10 F3 Economic Model Inputs_Pass 3.xlsx	Spreadsheet containing 2020 and 2025 PROMOD Database inputs for Future 3

Information for obtaining the 2017 ITP10 models

In order to obtain access to these documents in TrueShare, stakeholders must provide SPP with a signed [confidentiality agreement](#). Instructions can be obtained by clicking on the link. Please submit these forms via **RMS** through the “Request TrueShare Access” Quick Pick. After the executed confidentiality agreement is

received, an account will be created for the requester on TrueShare. An email with instructions for logging on will be sent to requester. For those that already have a TrueShare account, no additional action is necessary.

As a reminder, instructions for accessing the model information can be found on the SPP website [here](#).

Helpful Links

- [Transmission Owner Selection Process \(formerly Order 1000\) home page](#)
 - [Order 1000 Documents](#)
 - [Detailed Project Proposal \(DPP\) page](#)
- [SPP Transmission Planning Page](#)
 - All notice postings previously on the SPP.org home page are now on this page
 - ITP Postings (formerly in Order 1000 Documents folder) [here](#)
 - 2016 ITPNT updated schedule dates are included [here](#)
 - 2017 ITP10 schedule dates are [here](#)
- SPP Request Management System ([SPP RMS](#)) is the preferred method for inquiries and data submissions. Click on this link and then “Register Now” if you are not already registered.
 - Quick Picks to use in RMS:
 - “**ITP-DPP Submittal**” Quick Pick for DPP submissions
 - “**Request TrueShare Access**” Quick Pick for access to TrueShare for models
 - “**ITP – Modeling**” Quick Pick for input regarding modeling
 - “**ITP – Project Inquiry**” Quick Pick for questions/comments regarding projects
- [SPP RMS](#) is the preferred method for receiving all inquiries and solution submittals.