

2020 ITP Economic Generation and Load Review – Pass 3

SPP Staff is requesting review of generation parameters and load data utilized in the 2020 ITP Powerbase model. Please submit all changes by **December 7, 2018 by 2pm**, through the SPP Request Management System ([RMS](#)) using the “Integrated Transmission Planning (ITP)” Quick Pick and “Data Submission” Subtype.

This is the third of three (3) passes for review of the datasets. The posted data includes all updates from Pass 2 of the 2020 ITP BR Powerflow and Generation and Load Review. Updates submitted during Pass 3 and 4 of the ITP powerflow build that impact the Generation and Load Review will be incorporated prior to final approval of the 2020 ITP Generation and Load Review milestones.

Workbook Updates since 10/17 Posting:

- Generation Review Workbook
 - Simplified Instructions tab
 - Renamed Retirements Columns in Economic Model Gen tab
 - Implemented Future retirements per working group approvals in Economic Model Gen tab
 - Implemented Must Run Criteria in Must Run tab
 - Added Must Run Exception Column in Must Run tab
- Load Review Workbook
 - Simplified Instructions tab

SPP staff is explicitly requesting age based retirement exceptions for the 2020 ITP. Per the approved 2020 ITP Futures definitions, stakeholders may provide retirement exceptions for the Reference Case Future (Future 1), as well as the Emerging Technologies Future (Future 2) for repowering or emissions upgrades. Please note that the age based retirement criteria will not be applied to Future 1 Year 2. The Future 1 Year 2 retirement dates, and the calculated age based retirements are currently based on Pass 2 Generation Review commission dates, which include Fall 2017 ABB Simulation Ready Data and Stakeholder feedback. Note that this date may be different from the approved retirements in the 2019 ITP.

SPP Staff is also explicitly requesting must run criteria exceptions to the 2020 ITP. The must run criteria will be applied to co-generation, hydro, and nuclear units. Per the must run criteria stakeholders may request exceptions through the generation review process. Please note that all must run criteria exception requests must include rationale and are subject to working group approval.

Review Data is provided to SPP Stakeholders for review and does not require updates. Survey Data is data which is requested to be updated and is provided by SPP Stakeholders to SPP. The workbooks contain the following parameters:

Generation Data to be reviewed:

- Pmax value¹
- Bus and ID Mapping¹
- Maximum Capacity and Annual Profiles
- Curtailment

¹ Originates from the ITP Base Reliability Powerflow models
11/21/2018

- Variable O&M
- Fixed O&M
- Must Run
- Annual Maintenance Hours
- Minimum Run Times
- Minimum Capacity
- Effluents
- Effluents (% Removed)
- Fuel Forecast Usage
- Energy Limits and Hydro Energy Limits
- Heat Rate & Heat Rate Profiles
- Capacity Segment

Generation Data to be surveyed:

- Commission/Retirement Dates
- Unit Ownership Percentages
- Renewable Accreditation
- Fleet Purchase Power Agreements
- Must Run criteria exceptions

Load Data to be reviewed:

- Bus and ID Mapping¹
- Demand Group Mapping
- Peak Load¹
- Monthly Peak & Energy Percentages
- Non-scalable and Scalable Loads
- Hourly Load Profile Assignments

Load Data to be surveyed:

- Station Service Loads
- Annual Load Factor
- Annual Loss Factor
- Resource Planning Load

Non-future specific/BR generation review retirements (column P in the Economic Model Gen tab) should be consistent with the 2020 ITP Base Reliability powerflow model generation retirements. The 2020 ITP Base Reliability powerflow model retirements are designated as having P_{max} , P_{min} , Q_{max} , $Q_{min} = 0$.

Material Disclaimer

CONTAINS CONFIDENTIAL AND PROTECTED MATERIAL NOT AVAILABLE TO COMPETITIVE DUTY PERSONNEL – DO NOT RELEASE

Information for obtaining the 2020 ITP Economic Generation and Load Data

The generation and load workbooks are posted on [GlobalScape](#).

For users who have signed an NDA please look under “ITP → ITP → NCD (CEII, RSD) → License_NDA → 2020 ITP”

File Information

File Name	Description
2020_ITP_Economic_Generation_Data_Submittal_20181121.xlsx	Generation Data
2020_ITP_Economic_Load_Data_Submittal_20181121.xlsx	Load Data
ITP_Economic_Model_Data_Requests_Approved 20181121.docx	Details pertaining to all data request for generation and load review
2020_ITP_Gen_Load_Stakeholder_Feedback_Score_Card.xlsx	Stakeholder feedback score card

For users who have signed an ABB NDA please look under “ITP → ITP → NCD (CEII, RSD) → ABBNDA_NDA → 2020 ITP”

File Information

File Name	Description
2020_ITP_Economic_Generation_Data_Submittal_20181121.xlsx	Generation Data
2020_ITP_Economic_Load_Data_Submittal_20181121.xlsx	Load Data
ITP_Economic_Model_Data_Requests_Approved 20181121.docx	Details pertaining to all data request for generation and load review
2020_ITP_Gen_Load_Stakeholder_Feedback_Score_Card.xlsx	Stakeholder feedback score card

For users who have signed NCD NDA please look under “ITP → ITP → NCD (CEII, RSD) → NDA → 2020 ITP”

File Information

File Name	Description
2020_ITP_Economic_Load_Data_Submittal_20181121.xlsx	Load Data
ITP_Economic_Model_Data_Requests_Approved 20181121.docx	Details pertaining to all data request for generation and load review
2020_ITP_Gen_Load_Stakeholder_Feedback_Score_Card.xlsx	Stakeholder feedback score card

For users who have signed a CD NDA please look under “ITP → ITP → CD (CEII, RSD) → NDA → 2020 ITP”

File Information

File Name	Description
2020_ITP_Economic_Load_Data_Submittal_20181121.xlsx	Load Data
ITP_Economic_Model_Data_Requests_Approved 20181121.docx	Details pertaining to all data request for generation and load review
2020_ITP_Gen_Load_Stakeholder_Feedback_Score_Card.xlsx	Stakeholder feedback score card

In order to obtain access to these documents in [GlobalScape](#), 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 “GlobalScape Access Request” Quick Pick. After the executed confidentiality agreement is received, an account will be created for the requester on [GlobalScape](#). An email with instructions for logging in will be sent to the requester. For those that already have a [GlobalScape](#), no additional action is necessary.

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 \(formerly in Order 1000 Documents folder\)](#)
- 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:
 - **“GlobalScape Access Request”** Quick Pick for access to GlobalScape for models
 - **“ITP-Project Inquiry”** Quick Pick for questions/comments regarding projects
 - **“ITP-Modeling Inquiry”** Quick Pick for input regarding modeling
 - **“ITP-DPP Submittal”** Quick Pick for DPP submissions
 - **“ITP-Data Submission”** Quick Pick for responses to ITP data requests and surveys from SPP
- [SPP RMS](#) is the preferred method for receiving all inquiries and solution submittals.