



## 2017 ITP10 Needs Assessment Posted

**DPP Transmission Planning Response Window opens tonight at 12:01 a.m. – June 2, 2016 – and will close at midnight on July 1, 2016.**

The 2017 ITP10 Needs Assessment can be found on TrueShare under “Integrated Transmission Planning – Confidential and Protected Material and or Critical Energy Infrastructure Information-Do Not Release → 2017 ITP10 →” in the “[2017 ITP10 Needs Assessment](#)” folder.

For potential transmission solutions to be submitted as DPPs and for those not submitted as DPPs (non-DPPs, such as operating guides, or Order 890 submittals), **all** submittals need to be received by **midnight CDT on Friday, July 1, 2016**, in order to meet study timelines. Any solution submittals received after that date are not guaranteed to be evaluated in the 2017 ITP10. The updated [DPP Submittal Form](#) is the preferred method for receiving all solution submittals, including non-DPP and Order 890 solutions.

### ***Potential Invalidation of Select AC Thermal Needs***

The Transmission Working Group (TWG) and Economic Studies Working Group (ESWG) approved a process by which a thermal overload identified in the AC-based reliability needs assessment that is also a transmission constraint, or related to a transmission constraint, during the DC-based simulation of the SPP Balancing Authority (SPP BA) market dispatch will not be defined as a need for the 2017 ITP10. However, this needs assessment includes needs identified by SPP that fit this criterion by referencing the DC-based constraint or related constraints in the reliability overload needs list (See “DC Constraint or Related” tab in the 2017 ITP10 Needs Assessment). In light of other SPP initiatives (*i.e.*, RCAR II and seams projects) and identified chronic operational issues not previously addressed in the long-term planning processes, SPP determined it is necessary to perform further analysis on the identified needs and to provide an opportunity for the submission of solutions. Pending this additional analysis, these needs may subsequently be determined invalid.

### ***Process for Defining Economic Needs***

The economic needs per Future were determined by filtering the congested flowgates and applying the following criteria:

1. Greater than \$50,000 in annual congestion score ( = annual average shadow price x number of binding hours)
2. For flowgates with monitored elements not interconnected to the SPP transmission system: the flowgate must provide greater than \$1,000,000 in potential one-year APC benefit to SPP (potential benefit is determined by relaxing the rating of the monitored element of a flowgate)
3. Most congested unique monitored element (the lesser congested flowgates in the top 25 for which the monitored element is congested for multiple contingencies are excluded)
4. In the top 25 of all congested flowgates

### ***Direction for Evaluation of Power Transfer Distribution Factor (PTDF) Flowgates***

As part of 2017 ITP10 Assessment, SPP has identified congested PTDF flowgates defined as interfaces that require additional analysis in order for Stakeholders to properly evaluate and develop solutions to address



congestion. SPP has posted two (2) scope documents for the specific needs identified in this Assessment with information on how the interfaces should be evaluated for potential solutions.

**Scope Documents for Identified Interface Needs:**

File Name	Need ID	Description
Scope_FtCalhoun_South_Interface.pdf	2017ITP10-E1N0015 2017ITP10-E2N0014	Scope defining information needed for evaluating potential solutions submitted in the DPP Window for this interface.
Scope_Western_NE_KS_Interface.pdf, with file attached as Addendum A: "AddendumA_Western_NE_KS_Interface.xlsx"	2017ITP10-E3N0015	Scope defining information needed for evaluating potential solutions submitted in the DPP Window for this interface.

**Direction for Evaluation of Select Needs**

When evaluating need IDs 2017ITP10-E1N0001, 2017ITP10-E2N0003 and 2017ITP10-E3N0001, the load served through the Watford 230/115 kV transformers must remain radial, but can be served from one or more radial connections to the SPP transmission system. SPP will be investigating the reasonableness of any APC benefit provided by relieving the aforementioned needs due to the amount of emergency generation artificially injected into the load pocket.

**Informational Purposes – 69 kV Overloads/Voltages**

The 69 kV overload and voltage violations are provided for informational purposes only. The scope of the 2017 ITP10 Assessment is for 100 kV and above solutions to address 100 kV and above needs.

**SPP Evaluation of Model Changes Not Included in the Approved Model Set**

SPP will be evaluating the impacts of any model changes submitted during the solution development phase of the 2017 ITP10. This includes any model corrections submitted after the October 1, 2015 model build deadline, any known Notification to Construct (NTC) projects not included in the approved model set, and any modeled NTCs that have been withdrawn or will be withdrawn during the development of transmission portfolios.

- No changes will be made to the current base models to capture the impacts of model changes, specifically:
  - Defined needs will be based on the current approved models
  - All solutions will be screened against the approved reliability and economic models without consideration of model changes
  - The impacts of all model changes will be captured and considered in development of transmission portfolios
  - No new needs will be identified due to the impact of any model changes; any new violations will be assessed in future studies
- Model corrections will be evaluated to determine the impact on posted transmission needs and utilized as solutions in development of transmission portfolios
- Current NTCs not already modeled will be evaluated and utilized as potential solutions to transmission needs. This is not to be considered a re-evaluation of those existing NTCs.



- NTCs modeled but withdrawn will be evaluated to determine impact on posted transmission needs. No new needs will be identified due to the impact of a withdrawn NTC.

**Information for obtaining the 2017 ITP10 Needs Assessment**

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.

**Files posted on TrueShare:**

File Name	Description
2017 ITP10 Needs Assessment.xlsx	2017 ITP10 Needs Assessment workbook
SolveDevs.zip	IDEV files for use with ACCC Load Flow Parameters

*SUB/MON/CON Data:*

File Name	Description
AuxiliaryFiles.zip	Subsystem, monitored elements, and contingency files

**\*Note:** If PSS/E 32 is used for analysis, the contingency file will need to be split into at least two separate contingency files due to a known PTI file size limit of 2 GB for the .acc file.

All data can be found on TrueShare under “Integrated Transmission Planning – Confidential and Protected Material and or Critical Energy Infrastructure Information-Do Not Release → 2017 ITP10 →” in the “2017 ITP10 Models”, “2017 ITP10 Models Confidential”, and “2017 ITP10 Powerflow Models” folders.

The auxiliary files are available for the 2017 ITP10 in TrueShare under “Integrated Transmission Planning – Confidential and Protected Material and or Critical Energy Infrastructure Information-Do Not Release → 2017 ITP10 →” in the “ACCC Aux Files” folder.

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

Description	Deadline
DPP Transmission Planning Response Window	July 1, 2016, midnight CDT
Non-DPP/Order 890 Submissions	July 1, 2016, midnight CDT

**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](#)



- 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.