TP CFR
Annual Customer Workshop
September 1, 2022
Welcome TP CFR Customers
Agenda

- Welcome/Introductions
- 2023 TP CFR Cost Allocation
- TPL-001-5 Update/Data Request
- Key Dates
- Standards Update
- Customer Compliance Packet
- TPIP Changes
- External Site Update
Overall operating budget:

- 1.8% increase

Total Project Cost Distribution

Note:
These percentages change based on number of customers, elements and MW sizes.
Annually, during the month of April, BPA will send a TPL-001 Data Request to TP CFR Customers. The TP CFR Customer will have 30 days from the time the request was sent to respond to the data request. The intent of the data request is to collect the information required to complete the annual Planning Assessment, taking into account specific TP CFR Customer requests and requirements. BPA will use default assumptions and existing data to complete the annual Planning Assessment in the event of a non response to the TPL-001 Data Request.

<table>
<thead>
<tr>
<th>Standard</th>
<th>Requirement</th>
<th>Request Title</th>
<th>Request Date</th>
<th>Response Due By</th>
<th>Frequency of Request</th>
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<tbody>
<tr>
<td>TPL-001-5</td>
<td>R1.1.4</td>
<td>Firm Commitments</td>
<td>April</td>
<td>May</td>
<td>Annual</td>
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<td>TPL-001-5</td>
<td>R2.1.3</td>
<td>System Sensitivities (Steady State Studies)</td>
<td>April</td>
<td>May</td>
<td>Annual</td>
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<td>TPL-001-5</td>
<td>R2.1.4 &amp; R2.4.4</td>
<td>Selected known outages in the Near-Term Planning Horizon</td>
<td>April</td>
<td>May</td>
<td>Annual</td>
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<td>TPL-001-5</td>
<td>R2.1.5 &amp; R2.4.5</td>
<td>Spare Equipment Strategy Table</td>
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<td>May</td>
<td>Annual</td>
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<td>TPL-001-5</td>
<td>R2.3</td>
<td>Short Circuit Analysis</td>
<td>April</td>
<td>May</td>
<td>Annual</td>
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<td>TPL-001-5</td>
<td>R2.4.3</td>
<td>Suggested Sensitivity Cases (Stability Studies)</td>
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<td>May</td>
<td>Annual</td>
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<td>TPL-001-5</td>
<td>R4.1.1</td>
<td>Remedial Action Schemes</td>
<td>April</td>
<td>May</td>
<td>Annual</td>
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<td>TPL-001-5</td>
<td>R4.3</td>
<td>Operation of Automatic Controls</td>
<td>April</td>
<td>May</td>
<td>Annual</td>
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<tr>
<td>Table 1 – P5</td>
<td>NA</td>
<td>Non-redundant Protection System Components</td>
<td>April</td>
<td>May</td>
<td>Annual</td>
</tr>
</tbody>
</table>
TPL-001-5 R2.6 Material Changes

TPL-001-5:

2.6. Past studies may be used to support the Planning Assessment if they meet the following requirements:

2.6.1. For steady state, short circuit, or Stability analysis: the study shall be five calendar years old or less, unless a technical rationale can be provided to demonstrate that the results of an older study are still valid.

2.6.2. For steady state, short circuit, or Stability analysis: no material changes have occurred to the System represented in the study. Documentation to support the technical rationale for determining material changes shall be included.

[R2.6] Past Studies (TPIP, p. 26)
BPA utilizes past studies where appropriate to complete the annual Planning Assessment. This is consistent with R2.6 of TPL-001-5 and BPA will ask TP CFR Customers annually whether there have been changes to their transmission systems.
(R2.7) Corrective Action Plan(s), (TPIP, p. 24)
A Corrective Action Plan (CAP) is a list of actions, and an associated timetable for implementation, to remedy a specific problem identified in a Planning Assessment.
# Standard Updates

**Standards Subject to Future Enforcement**

Please refer to the [U.S. Effective Dates page](#) for the most up-to-date information on effective dates and for more detail on the below.

<table>
<thead>
<tr>
<th>U.S. Effective Date</th>
<th>Standard(s)</th>
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</table>
| October 1, 2022     | CIP-005-7 – Cyber Security — Electronic Security Perimeter(s)  
CIP-010-4 – Cyber Security — Configuration Change Management and Vulnerability Assessments  
CIP-013-2 – Cyber Security — Supply Chain Risk Management  
PRC-024-3 – Frequency and Voltage Protection Settings for Generating Resources |
| April 1, 2023       | EOP-011-2 – Emergency Preparedness and Operations  
IRQ-019-4 – Reliability Coordinator Data Specification and Collection  
TOP-003-5 – Operational Reliability Data |
| July 1, 2023        | TPL-001-5.1 – Transmission System Planning Performance Requirements | Implementation Plan |
| January 1, 2024     | CIP-004-7 – Cyber Security — Personnel & Training  
CIP-011-3 – Cyber Security - Information Protection  
TPL-007-4 – Transmission System Planned Performance for Geomagnetic Disturbance Events (Requirements R7, 7.1–7.3, 7.3.1–7.3.2, 7.4, 7.4.1–7.4.3, 7.5, 7.5.1, R11, 11.1–11.3, 11.3.1–11.3.2, 11.4, 11.4.1–11.4.3, 11.5, and 11.5.1) |
| April 1, 2024       | FAC-003-5 – Transmission Vegetation Management  
FAC-011-4 – System Operating Limits Methodology for the Operations Horizon  
FAC-014-3 – Establish and Communicate System Operating Limits  
IRQ-008-3 – Reliability Coordinator Operational Analyses and Real-Time Assessments  
PRC-023-5 – Transmission Relay Loadability | Implementation Plan  
PRC-002-3 – Disturbance Monitoring and Reporting Requirements | Implementation Plan  
PRC-026-2 – Relay Performance During Stable Power Swings | Implementation Plan  
TOP-001-6 – Transmission Operations |

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**TPL-007-4 (TPIP, p. 29)**

BPA will assume the Transmission Planner role for this standard, except for the requirements pertaining to the Corrective Action Plans (CAP). It is the TP CFR Customer’s responsibility to ensure that all qualified transformers are included in the applicable models through the Annual Data Exchange (ADE) process.
Customer Compliance Packet

2022 Customer Compliance Packet

2022 Compliance Packet Document List:

a. TP CFR 2022 System Planning Summary Appendix
b. TP CFR 2022 Bus Fault Summary
c. TP CFR 2022 TPL-001-4 Data Submittal
d. TP CFR Corrective Action Plan (if applicable)
e. TP CFR Implementation Plan (if applicable)

2022 System Assessment Summary Report

Customer Compliance Packet (TPIP, p. 25)

CSRP will consolidate the TP CFR Customer’s Planning Assessment Appendix, Short Circuit Study, CAPs (when applicable) and TPL-001 Data Request response annually and distribute to the customer. The timing of the Compliance Packet will coincide with the completion and distribution of the annual Planning Assessment.
Upcoming “draft” Changes/Schedule:

- Comment period October 2022
- Matrix update timing for Standard changes (Removed “Within 45 days of FERC notice…”)
- Removal of MOD-020 (standard retired)
- TPL-001-4 to TPL-001-5 (many changes)
- Data request table (TPL-001-5 changes)
- Exhibit A update description (matches TOPIC 210 day notification requirement)
Reliability Program Contacts
Customer Service Reliability Program
Lorilee Cardoza
CSR@bpa.gov
360-418-8777

Reliability Officer
Jeff Cook
reliability@bpa.gov
360-418-6981

Please submit your WECC/NERC reliability or compliance questions and or events & dates to the Customer Service Reliability Program at: CSR@bpa.gov

Projects

- Transmission Planner
  - Transmission Operator
  - Planning Coordinator
  - Annual System Review (ASR)
  - Other Utility Worker (OUW) Unescorted Access Process
Updated External Site

Projects

Transmission Planner

BPA has analyzed the Transmission Planner (TP) function and how we interact with connected systems and entities. BPA has determined the most efficient and effective approach to maintain compliance requirements in a combination of Coordinated Functional Registration (CFR) agreements where warranted, and TP acting as the "TP" for applicable entities on a case-by-case basis. This page is for interested parties who wish to learn more about BPA's approach to the TP function. Please see contact link below for further information or if you have specific questions.

Transmission Planner Implementation Procedures (TPIP)
Transmission Planner Implementation Procedures (TPIP), final version

Reliability Program Contact

Customer Service Reliability Program Phone: 360-418-8777 Email: csp@bpa.gov

TP Generator Owners

In 2018, WECC undertook efforts to close a "registration gap" where Generator Owners (GO) were required to map to a registered Transmission Planner (TP). BPA has more than 60 foreign owned generator facilities attached to their transmission system and agreed to show these GOs how to map to BPA as the TP. This page provides useful information for GOs that BPA has agreed to provide TP services for. GO entities are expected to abide by applicable processes in BPA's Transmission Planning and Implementation Procedures (TPIP), located at the "Customer Documents Link.

Documents

Implementation Plan

G0 Customer Meetings

12/18/2019 - WesCo meeting

TP Coordinated Functional Registration (CFR)

BPA has entered into a NERC CFR contract with several Transmission Owners (TO) within our Planning Coordinator (PC) footprint. The TP CFR allows BPA and the TOs to share compliance responsibility for all of the TP NERC standards. The TOs benefit from the TP CFR by having BPA perform the studies and system assessment, plus other activities as required by standards. BPA benefits by being able to plan out Transmission systems in a more holistic way through cooperation with all TOs. The TP CFR is a pay for service contract arrangement administered by BPA's Coordinated Reliability Program (CRP).

CFR Customer Meetings

9/1/2022 - 1:00-3:00 PDT

Annual TP CFR Customer Workshop

- Agenda

Documents

- TP Roadmap Analysis
- This document contains a sample of derivation of TP requirements between BPA and Customers
- CFR Contract Template
- Sample CFR Contract template
- TP CFR Cost Breakdown
- 2022 Cost breakdown of TP CFR services
- Sample Customer Implementation Plan

TP CFR Timeline

Timeline

Exhibit Update Forms

- Notices Change Form
- System/Equipment Change Form

Business Operations

- Transmission Operator

Business Operations

- Planning Coordinator

Business Operations

- Annual System Review (ASR)

Business Operations

- Other Utility Worker (OUW) Unescorted Access Process

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Questions?
Contact Us

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Debbie Miller (CSRP) – dxmiller@bpa.gov
Kendall Rydell (BPA Planning SME) – karydell@bpa.gov
Team Mailbox - CSRP@bpa.gov