



Southwest Power Pool
TRANSMISSION WORKING GROUP MEETING
July 25, 2018
SPP Corporate Campus – Little Rock, AR

• Summary of Action Items •

1. Approved the meeting agenda
2. Approved the Generator Outlet Facilities (GOFs) for the 2019 ITP Assessment

Southwest Power Pool
TRANSMISSION WORKING GROUP MEETING
July 25, 2018
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• M I N U T E S •

Agenda Item 1 – Administrative Items

Call to Order

TWG Chair Travis Hyde called the meeting to order at 9:00 am. The following members were in attendance (Attachment 1a - Attendance):

Travis Hyde (Chair), Oklahoma Gas & Electric
Scott Benson, Lincoln Electric System
John Boshears, City Utilities of Springfield
Derek Brown, Westar and KCP&L, Evergy Companies
Joe Fultz, Grand River Dam Authority
James Ging, Kansas Power Pool
Kalun Kelley, Western Farmers Electric Cooperative
John Knofczynski, East River Electric Power Cooperative
Dan Lenihan, Omaha Public Power District
Randy Lindstrom, Nebraska Public Power District
Jim McAvoy, Oklahoma Municipal Power Authority
Matt McGee, American Electric Power
Nathan McNeil, Midwest Energy
Nate Morris, Empire District Electric
Michael Mueller, Arkansas Electric Cooperative Corporation
Gayle Nansel, Western Area Power Authority
John Payne, Kansas Electric Power Cooperative
Chris Pink, Tri-State G&T
Jason Shook, GDS Associates, Inc.
Matthew Stoltz, Basin Electric Power Cooperative

Proxies

The following proxies were provided for the meeting (Attachment 1b – Proxies):

- Jence Mandizha (MIDW) partial proxy for Nathan McNeil (MIDW)
- Michael Wegner (ITC GP) proxy for Alan Myers (ITC GP)
- Rachel Hulett (SC MCN) proxy for Noman Williams (SC MCN)

It was noted that there was an update to the 2018 ITPNT Report that was originally posted with the meeting materials. This update was made to include NTC Withdrawal information that was not in the report that was originally posted.

Agenda Item 2 – 2019 ITP

Generator Outlet Facilities

Kirk Hall, SPP staff, began the discussions on the 2019 ITP Generator Outlet Facilities (Attachment 2a – GOF Presentation) by reviewing the overall GOFs process and the list of selected GOFs. The TWG raised questions related to using capacity factor as an indicator of the need for a GOF, which was not

considered as an indicator for the need for a GOF. In response to another question, Kirk informed the TWG that most of the renewable resources included in the resource plan are included in the GI Queue, while the conventional resource plan is not represented in the GI Queue at all. Kirk did inform the TWG that staff planned to discuss a potential siting adjustment with the ESWG the following day to adjust siting for one resource in the renewable resource plan to move from Tulsa North 345 kV to Riverside 345 kV. This adjustment would impact the recommended GOFs. To avoid any schedule impacts, staff proactively developed a GOF for each potential site and asked that the TWG approve the GOFs contingent upon the ESWG decision on the siting adjustment.

Motion: Nate Morris made a motion recommending the TWG approve the inclusion of the identified GOFs for the 2019 ITP Assessment, contingency upon the determination by the ESWG for potential siting adjustment. Joe Fultz seconded the motion, which passed with no opposition.

Constraint Assessment

Clayton Mayfield, SPP staff, gave a presentation (Attachment 2b – Constraint Assessment) about the background and methodology utilized during the Constraint Assessment that will be performed as part of the 2019 ITP. Members asked a question about how temporary flowgates related to temporary outages will be vetted and considered for the 2019 ITP. Clayton explained that SPP Staff will be compiling previous versions of temp flowgates that will be looked into on a case by case basis. These will then be vetted with the stakeholders and they can review and provide feedback. Clayton also identified the specific dates where the TWG would be requested to provide feedback to staff.

Pass 5c Base Reliability Models

Eddie Watson, SPP staff, gave a presentation (Attachment 2c – 2019 ITP Model Update Additional Evaluations) providing updates on the 2019 ITP models. He provided information on the changes that have been implemented in the latest pass, including the details of the ~40 submitted changes that would be included. There was no further discussion.

Base Reliability Needs Assessment P3 Event Schedule

Jason Speer, SPP staff, provided an updated on the P3 process as well as presented the schedule that will be utilized for the P3 analysis on the Base Reliability models (Attachment 2d – 2019 ITP P3 Events Process). Matt McGee asked a question regarding the 2% differentiator for violations and further clarification was provided.

Agenda Item 3 – RR 261 and Materially Modified Business Practice

Micha Bailey, SPP staff, provided the group with updates regarding comments to RR 261 Sponsored Upgrade Clarification and a revision request for the Business Practice definition of Material Modification (Attachment 3a, 3b – BP Definition of Material Modification for Network Upgrades, RR 261 SPP Comments TWG Revisions). TWG members asked if this definition of 'materially modified' would be leveraged for FAC-002. Staff suggested that it should be used to meet some of the requirements for FAC-002-2 because SPP will be using the Sponsored Upgrade process and language to meet FAC-002 compliance for new facilities. Language was modified to account for TWG discussion on the removal of new facilities and potential for proactive rehabilitation to be considered system maintenance. The TWG had a significant amount of discussion about how the definition of material modification accounted for aging infrastructure. Discussion concluded with a staff and TWG consensus these documents could be sent to the RTWG for further review and discussion. Kirk suggested for TWG members or other stakeholders that disagreed with some of the unapproved language to review their concerns with their RTWG representative or to participate in the RTWG discussion.

Agenda Item 4 – Updated Map Request Process

Due to time constraints, this item was tabled until the August TWG meeting.

Seeing there was no further business, the meeting was adjourned at 11:03 am.

Respectfully Submitted,

Kirk Hall
Secretary



Southwest Power Pool, Inc.
TRANSMISSION WORKING GROUP MEETING
July 25, 2018
SPP Corporate Campus – Little Rock, AR

• A G E N D A •

9:00 – 11:00 am

1. Administrative ItemsTravis Hyde(10 min.)
 - a. Call to Order
 - b. Proxies
2. 2019 ITP Staff (90 min.)
 - a. Generator Outlet Facilities – Kirk Hall (Action Item)
 - b. Constraint Assessment – Clayton Mayfield
 - c. Pass 5d Base Reliability Models – Eddie Watson
 - d. Base Reliability Needs Assessment P3 Event Schedule – Jason Speer
3. RR 261 and Materially Modified Business Practice..... Micha Bailey (20 min.)
4. Updated Map Request Process.....Justin Fultz (10 min.)

Antitrust: SPP strictly prohibits use of participation in SPP activities as a forum for engaging in practices or communications that violate the antitrust laws. Please avoid discussion of topics or behavior that would result in anti-competitive behavior, including but not limited to, agreements between or among competitors regarding prices, bid and offer practices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that might unreasonably restrain competition.

All sessions in Central Daylight Time (Chicago, GMT-05:00)

Session detail for 'TWG Net Conference':

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7 Ryan Yokley	ryokley@sunflower.net
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83 Sherri Maxey	smaxey@spp.org

Kirk,

I have another commitment this morning at 10 am, so I will only be on the TWG call for the first hour. Jence Mandizha will have my proxy when I need to leave the call.

Thanks,
Nathan

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HELPING OUR MEMBERS WORK TOGETHER
TO KEEP THE LIGHTS ON... TODAY AND IN THE FUTURE.

2019 ITP Generator Outlet Facilities Review

Kirk Hall

July 25, 2018

Overview

- Process Review
- GOF Indicators
- Potential Siting Adjustment
- GOF Results
 - Wind
 - Conventional and Solar
 - Engineering Judgments
 - Potential GOF Updates
- Recommendation

Process Review

- Review site prioritization and Siting Availability results for potential need for GOFs
- Resources in GI Queue
 - Leverage GI Queue as appropriate
 - Review resource and GI Upgrade for right sizing of GOF
- Work closely with incumbent TO during development of potential upgrades
 - Keep stakeholders involved in the process
 - Use member feedback to ensure upgrades modeled realistically
- Validate potential GOF addresses the FCITC results with a verification run

GOF Indicators

- **GI Queue**
 - Definitive assigned network upgrade(s) identified in GI Queue
 - Identified network upgrades not yet assigned do not guarantee GOF is recommended
- **Siting Availability < Sited Resource Amount and**
 - N-0: 3% TDF
 - N-1: 20% TDF
 - FCITC results show transfer capability at a site
 - Siting Availability = FCITC – existing generation at a site
 - GOFs not recommended based upon limited Siting Availability alone

Potential Siting Adjustment

- **Original Site at Tulsa North 345 kV**
 - Requested interconnection moved to Riverside 345 kV (South Tulsa) in GI Queue
 - GI Queue has identified upgrades for ERIS, however not definitive results
- **POI amounts by model**
 - Future 1: 2024 → 855 MW, 2029 → 1357 MW
 - Future 2: 2000 MW for both years
- **Siting milestone owned by ESWG**
 - Discussion will occur during 7/26 ESWG meeting to discuss possibility of siting adjustments
 - TWG requested to approve upgrades for either site contingent upon ESWG direction for Siting

GOFs for Wind Resources

GOF Description	Site	MW Sited*	GOF Source
2 nd Tande – Neset 230 line, New 230/115 kV transformer at Neset	Tande 345 kV	604	Siting Availability
Terminal Upgrades Cleo Corner – Cleo Tap 138 kV (GI Queue)	Cleo Corner 138 kV	200	GI Queue
Terminal Upgrades Carl Jct – Asbury Plant – Purcell 161 kV line	Asbury Plant 161kV	250	Siting Availability
Terminal Upgrades Carthage – LaRussell – Monett 161 kV line	LaRussell Energy Center 161 kV	250	Siting Availability
2 nd Tolk 345/230 kV Transformer	Crossroads 345 kV	522	Siting Availability

*Sited amount for all futures/years, thus GOFs needed in 2024

GOF Description	Site	MW Sited	GOF Source
2 nd Tulsa North 345/230 kV transformer (F2 2024 & 2029)	Tulsa North 345 kV	2000	Both
Rebuild 21 st Street – Tulsa SE 138 kV line (F1 2029, F2 2024 & 2029)	Riverside 345 kV	1357/2000	Siting Availability

Wind Resources with No GOFs Recommended

Site	MW Sited*	Reasons
Utica 230 kV	200	<ul style="list-style-type: none"> • Requests associated with definitive previously assigned upgrades withdrawn from GI Queue • Siting Availability > Resource size
Woodring 345 kV	250	<ul style="list-style-type: none"> • Raising structures to increase line rating (not definitive) • Siting Availability > Resource size
Cleo Corner 138 kV	200	<ul style="list-style-type: none"> • Short 69 kV lines around Cleo may show up as constraints • Potential for rebuilding in models as GOFs
Mooreland Windfarm 138 kV/Mooreland – Knob Hill 138 kV	150/176	<ul style="list-style-type: none"> • No definitive upgrades • Concerned with masking issues
Chisholm – Gracemont 345 kV	300	<ul style="list-style-type: none"> • GI study considering large cluster, study results not definitive • Siting Availability > Resource size

Solar and Conventional GOF

- **No GOFs needed for Conventional or Solar Resource**
 - Conventional Resource Plan showed no correlation to resources in the GI Queue
 - No site bus included more MW than Siting Availability results showed
 - Siting Availability results only measure for GOF need for individual resources
 - 3 Sites included resources on both sides of a transformer (Plant X, Hobbs, Nichols)
 - Siting Availability considers existing generators and FCITC results

Potential GOF Updates

- Staff may invalidate constraints or identify additional network upgrades that should be considered GOFs later in the study
 - Upon identification, staff will review justification with TWG/ESWG
- Milestones affected
 - Constraint Assessment
 - Solution Development

GlobalScape Data Paths

- ITP → ITP → CD (CEII) → NDA → 2019 ITP
→ Siting Plan
- ITP → ITP → NCD (RSD, CEII) → NDA → 2019
ITP → 2019 ITP Siting Plan

Recommendation

- Staff recommends the TWG approve the inclusion of the identified GOFs for the 2019 ITP Assessment, contingent upon the determination by the ESWG for potential siting adjustment



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Constraint Assessment

Clayton Mayfield

July 25, 2018

Objective

- Review Constraint Assessment background & methodology

Background

Constraint Assessment

Constraint Assessment Background

- Method of determining elements that limit the incremental transfer of power throughout the system both under system intact and contingency situations.
- SPP utilizes constraints to reliably manage the flow of energy across the physical bottlenecks of the transmission system in the least costly manner.
- Developing study-specific constraints plays a critical part in determining transmission needs, as the Constraint Assessment identifies future bottlenecks as well as fine tunes the PROMOD models
- Due to PROMOD limitations, it is not possible to monitor all combinations of transmission elements for issues, so the Constraint Assessment narrows constraint focus to most impactful as determined by ITP Future assumptions

Governing Language

ITP Manual

2.2.3 CONSTRAINT ASSESSMENT

SPP maintains a list of flowgates to monitor based on reliability and economic issues seen in real-time. The constraint assessment is used to identify potential future constraints for each future and year of study.

To create these additional constraints, SPP will perform economic simulations to identify additional or breaching elements in the system that occur during the reliability peak and off-peak hours²². System flows under two levels of constraint will be analyzed:

- Copper Plate: No defined constraints.
- Initial constraint list based on NERC and SPP flowgates.

Governing Language

ITP Manual

2.2.3.1 Contingency Screening

Due to software and time limitations, large contingency lists are not feasible. The contingency lists will be created with the goal of including the most impactful contingencies for constraint identification.

After the initial economic simulation dispatch results have been created, the resulting contingencies will be limited to the following types of planning events identified in the NERC Standard TPL-001 for the 100 kV-and-above transmission system:

- P1.2 and P1.3 single-branch contingencies on the 100 kV and above system exceeding 50 percent loading in the peak and off-peak hours under system intact conditions for the translated areas.
- P1.2 and P1.3 single-branch contingencies on the 200 kV and above system exceeding 25 percent loading in the peak and off-peak hours under system intact conditions for the SPP footprint.
- Contingencies included in the SPP permanent and temporary flowgates, including P7 events.
- Other P1, P2, P4 and P5 events as potential contingencies.

Contingencies meeting these criteria that are inconsistent with operation of the SPP Integrated Marketplace or create simulation anomalies may be excluded from further evaluation.

Governing Language

ITP Manual

2.2.3.2 Constraint Identification

Facilities exceeding their thermal limits under system intact and contingency conditions will be assessed for potential inclusion as constraints. Flow violations occurring in either of the reliability hours will be automatically included unless SPP and stakeholders deem otherwise during the constraint review. Flow violations occurring in the annual hourly simulations will be considered for inclusion based on the following information, at a minimum:

²² Defined in the Base Reliability Model Overview section

- Number of violation hours and/or violation loading thresholds.
- The ability of the simulation to reach a valid²³ dispatch solution due to a given constraint²⁴.
- Preliminary economic model simulation results.
- Performance of constraints in prior SPP expansion plan studies.

The ESWG and TWG will be given the opportunity to review the resulting constraints. After the review is completed, TWG approval will be requested before completion of the milestone.

In addition to the approved list of constraints, some 69 kV constraints may be included in the constraint list as needed to properly control the dispatch of resources on the 69 kV system and capture congestion in developing 100 kV and above solutions. These constraints will be suggested or provided by SPP stakeholders.

PROMOD Analysis Tool (PAT)

- Primary tool utilized for Constraint Assessment
 - Includes a tool that develops outages and associated monitored branches utilizing PROMOD dispatch and other criteria
 - Includes a tool that creates and analyzes event files to reduce errors and PROMOD run times
- Software developed specifically for in-depth analysis of PROMOD results by utilizing the following output files generated by PROMOD
 - HRX, HRY, EVE, PFF, LIB

Methodology

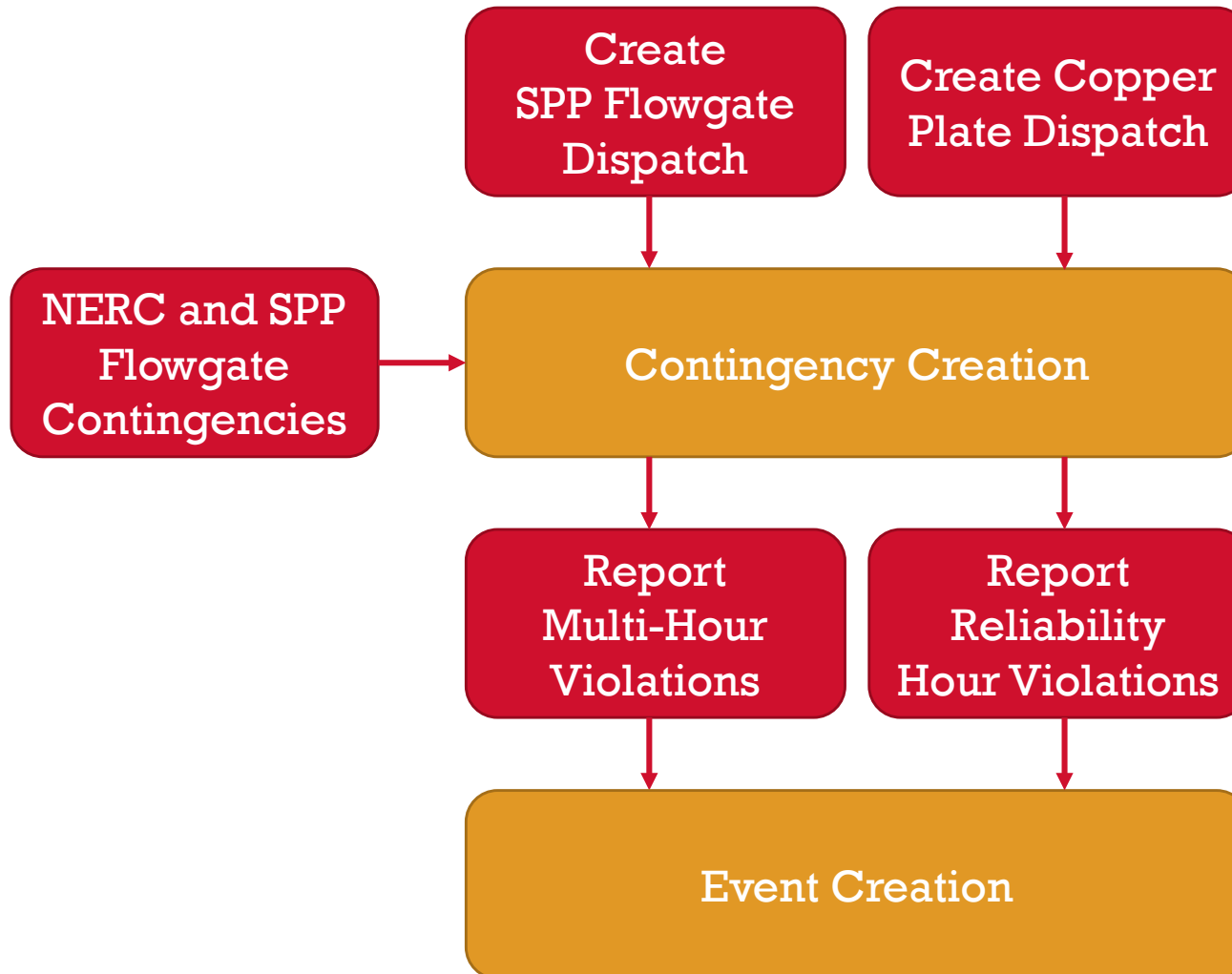
Constraint Assessment

Methodology Overview

- ITP Scenarios (5 total):
 - Future 1 Y2, Y5, Y10
 - Future 2 Y5, Y10
 - Assessment types:
 - Peak
 - Off-Peak
 - Annual (8760/8784)
 - Constraint files:
 - SPP Permanent Flowgates
 - Copper Plate (unconstrained)

Methodology Overview

By Scenario



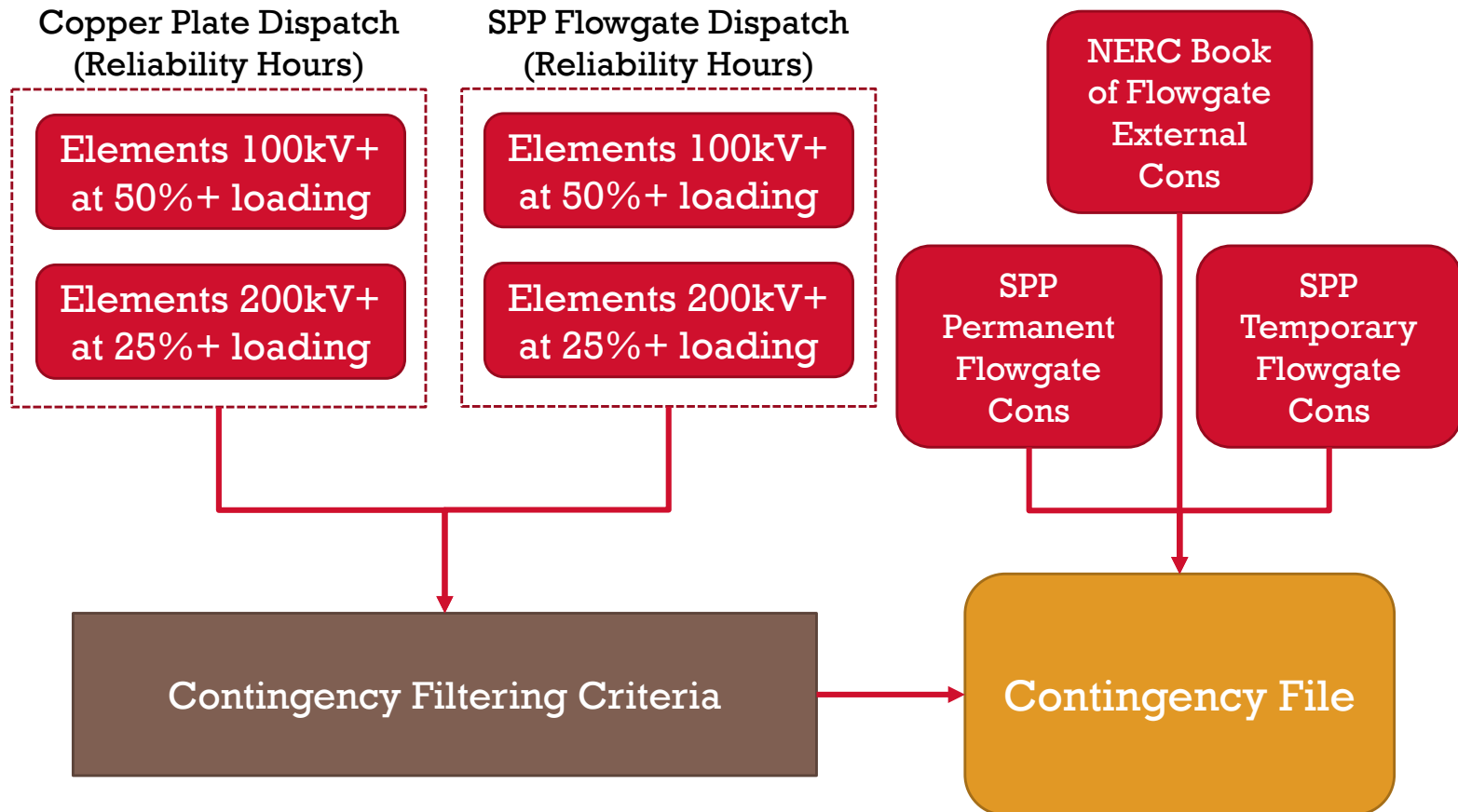
Initial Set-Up By Scenario

- Create two PROMOD annual dispatches
 - Copper Plate Event File
 - Event file containing the SPP Permanent Flowgate events (as of July 3, 2018)
- Determine reliability hours
 - Peak: Highest load hour in SPP
 - Off-peak: Highest SPP wind to SPP load (wind penetration) in April or May between 12 AM and 6 AM

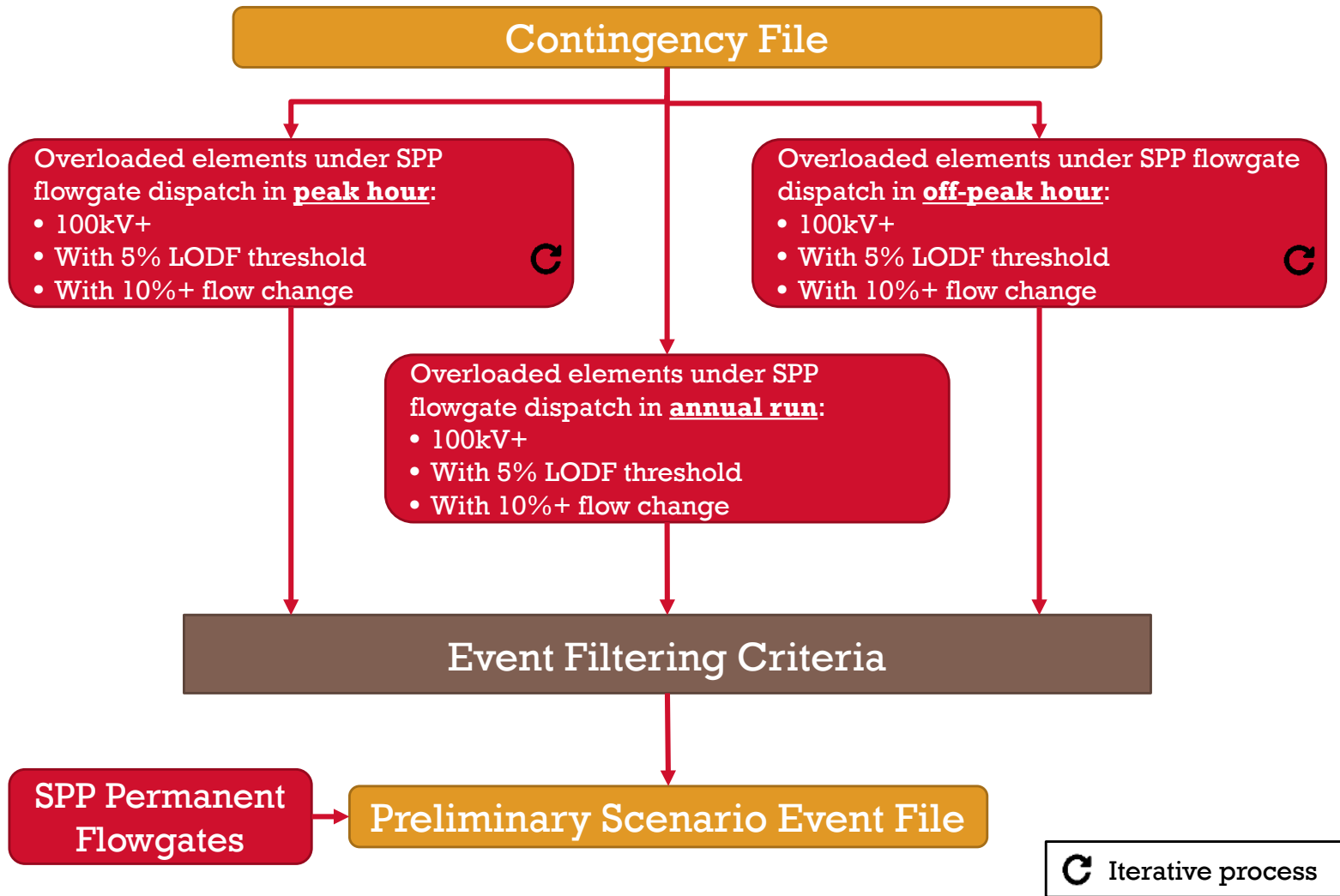
*Wind Penetration*_{hour,%}

$$= \frac{\text{Contract Participation Energy (MW)} + \text{Contract Curtailed Energy (MW)}}{\text{Load (MW)}}$$

Contingency Creation By Scenario

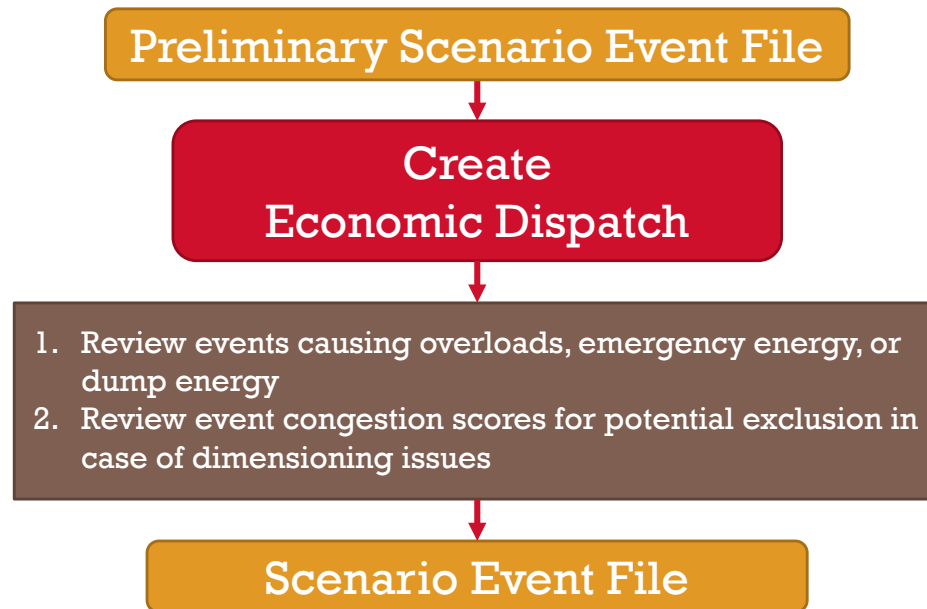


Event Creation By Scenario



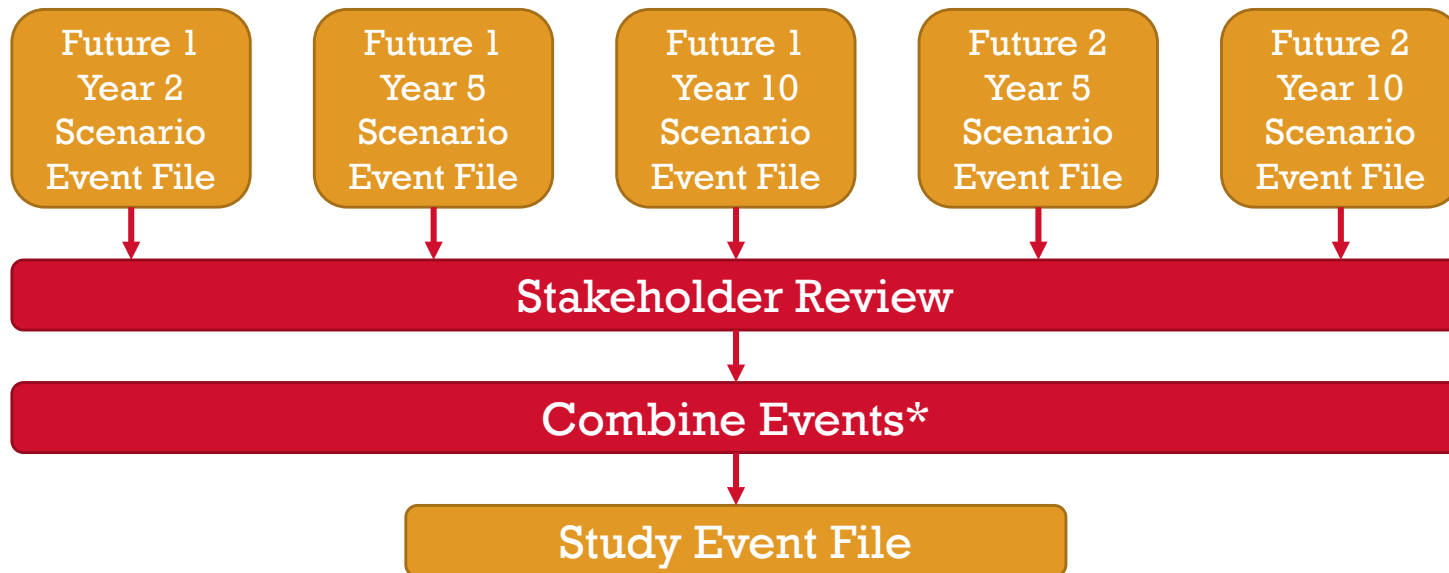
Event Creation II

By Scenario



Methodology Overview

Event Creation – Study-specific



*To the extent possible with topology changes amongst scenarios

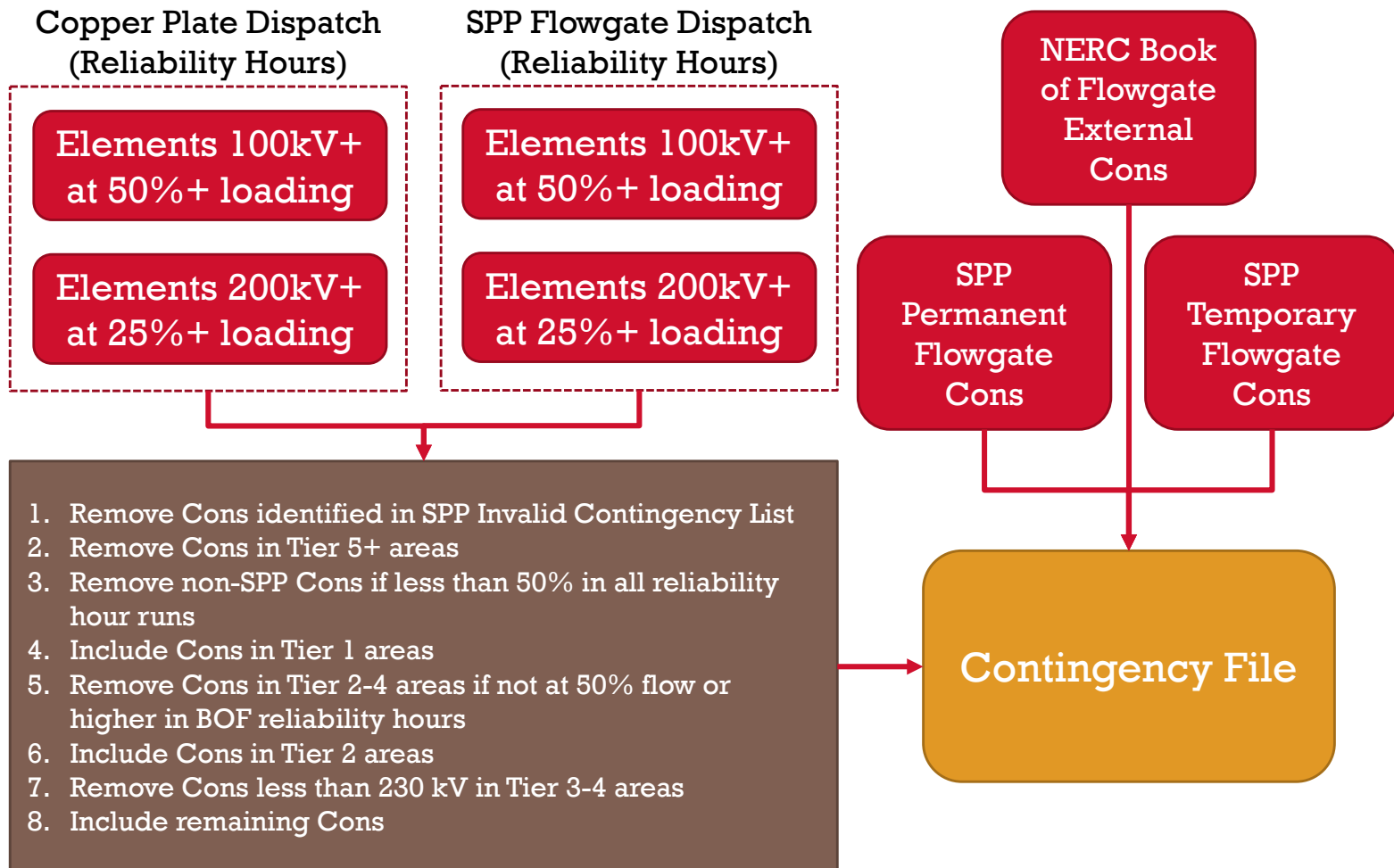
Stakeholder Review Period

- Review Period: 8/24/2018 – 8/31/2018
 - Consistent with the ITP Manual,
 - Events with following contingencies assumed included unless directed by stakeholders during this review:
 - P1.2 and P1.3 single-branch 100kV+ with 50% loading in peak or off-peak
 - P1.2 and P1.3 SPP single-branch 200kV+ with 25% loading in peak or off-peak
 - NERC, SPP permanent, and SPP temporary flowgates
 - Events with following contingencies assumed excluded unless directed by stakeholders during this review:
 - Other P1, P2, P4, and P5 events **not included in NERC or SPP permanent flowgates**
 - Solicit additional 69kV events
- TWG Approval Review: 9/06/2018 – 9/13/2018
- TWG Approval: 9/14/2018
 - Email or conference call

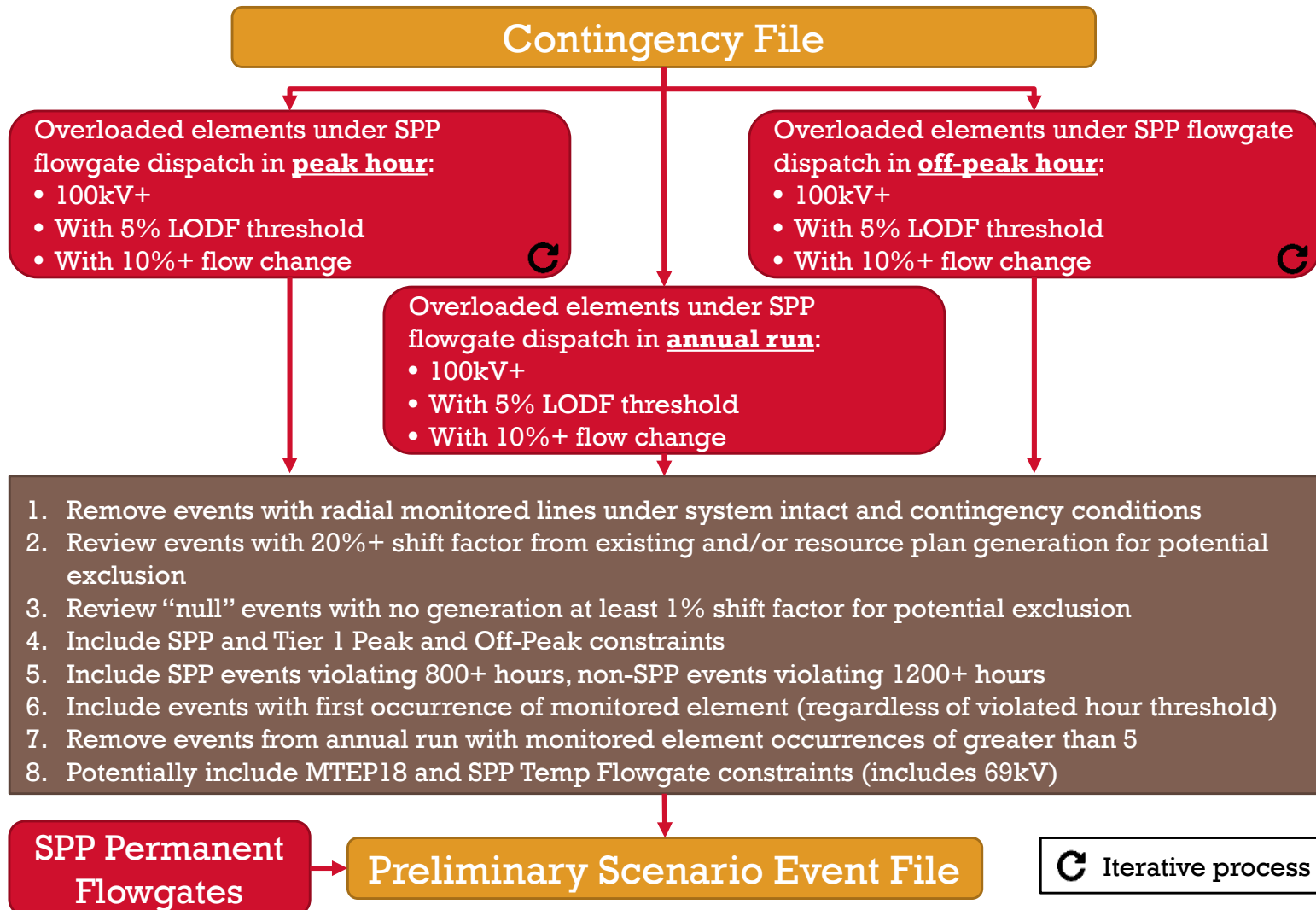
Appendix

Constraint Assessment

Contingency Creation By Scenario



Event Creation By Scenario





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2019 ITP P3 Events Process

TPL P3 Events Background

- P3 events are loss of generator followed by system adjustments, and loss of another facility
- System adjustment idevs are required to address P3 events
- The models considered in the P3 event analysis will be in accordance with Tables 5 and 7 of the ITP Manual.

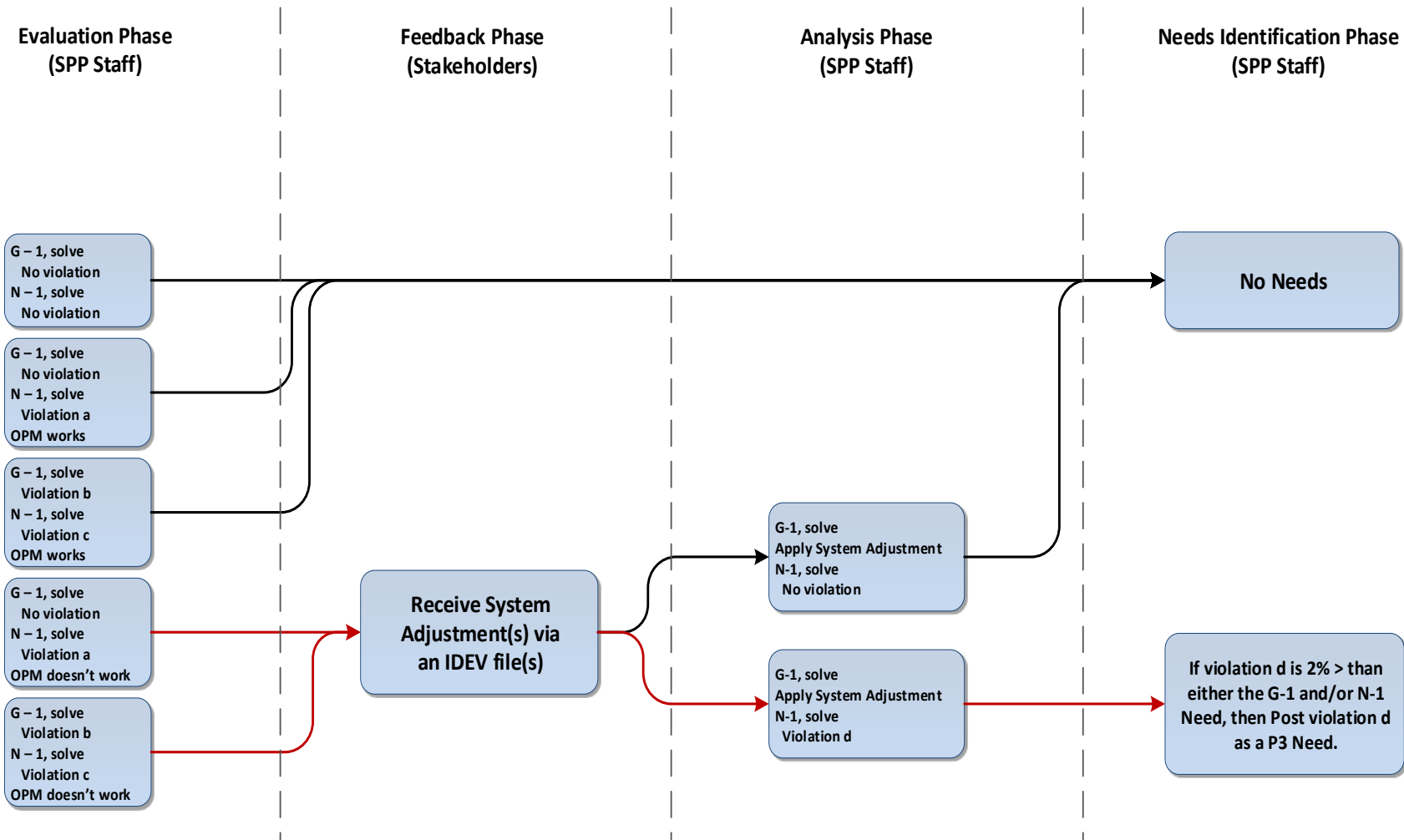
		Other Planning Events	
		Monitored Element	Contingent Element
BR Models	Year 2 Summer	100 kV+	100kV/300 kV+
	Year 2 Light Load	100 kV+	100kV/300 kV+
	Year 5 Summer	100 kV+	100kV/300 kV+
	Year 10 Summer	100 kV+	100kV/300 kV+
BA Models	Reference Case Year 2 Peak	100 kV+	100kV/300 kV+
	Reference Case Year 2 Off-Peak	100 kV+	100kV/300 kV+
	Reference Case Year 5 Peak	100 kV+	100kV/300 kV+

TPL P3 Preliminary Grouping

- **Generation Shift Factor (GSF) Grouping:**
 - Gen_x & All Generators: $\geq 5\%$ on same facilities
 - Gen_x & Branches: $\geq 5\%$ GSF
 - Gen_x & Transformers: $\geq 5\%$ GSF
 - Gen_x & Shunts: 10 Nodes out from Gen_x
- If paired branch is part of a submitted P1.2 (breaker-to-breaker) event, the generator will also be paired with that P1.2 event.

TPL P3 Analysis Process

Need Identification for P1.1 and P3.x Events



TPL P3 Analysis Process Cont'd

- SPP Staff will verify that each potential violation is mitigated by applying the system adjustment between the G-1 and N-1 event and then performing a limit check on the monitored element
- For potential violations in the BA models a prescreening of system adjustment idevs submitted for the BR models will be performed

TPL P3 BR Models Key Dates and Timeline*

Item	Start Date	Completion Date
Final 2019 ITP BR Models Posted	July 31, 2018	August 6, 2018
Begin P3 Analysis POM-OPM Runs	August 6, 2018	September 4, 2018
Send out workbooks with Potential Violations sent to applicable TOs	September 5, 2018	September 18, 2018
Populated workbooks and system adjustment idevs due back to SPP Staff	September 18, 2018	
SPP Staff verification of system adjustments	September 18, 2018	December 14, 2018
2019 ITP DPP Window Opening	January 7, 2019	

* Dates subject to change pending TWG approval of final 2019 ITP BR Models

Revision Request Form

SPP STAFF TO COMPLETE THIS SECTION

RR #:		Date: xx/xx/2018
RR Title: BP Definition of Material Modification for Network Upgrades		
System Changes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Process Changes? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Impact Analysis Required? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
SUBMITTER INFORMATION		
Name: Micha Bailey	Company: Southwest Power Pool	
Email: mcbailey@spp.org	Phone: 501.688.2522	
<i>Only Qualified Entities may submit Revision Requests. Please select at least one applicable option below, as it applies to the named submitter(s).</i>		
<input checked="" type="checkbox"/> SPP Staff <input type="checkbox"/> SPP Market Participant <input type="checkbox"/> SPP Member <input type="checkbox"/> An entity designated by a Qualified Entity to submit a Revision Request "on their behalf"	<input type="checkbox"/> SPP Market Monitor <input type="checkbox"/> Staff of government authority with jurisdiction over SPP/SPP member <input type="checkbox"/> Rostered individual of SPP Committee, Task Force or Working Group <input type="checkbox"/> Transmission Customers or other entities that are parties to transactions under the Tariff	
REVISION REQUEST DETAILS		
Requested Resolution Timing: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Expedited <input type="checkbox"/> Urgent Action Reason for Expedited/Urgent Resolution:		
Type of Revision (select all that apply): <input type="checkbox"/> Correction <input checked="" type="checkbox"/> NERC Standard Impact (<i>Specifically state if revision relates to/or impacts NERC Standards, list standard(s)</i>) <input type="checkbox"/> Clarification FAC-002-2 <input type="checkbox"/> Design Enhancement <input type="checkbox"/> FERC Mandate (<i>List order number(s)</i>) <input checked="" type="checkbox"/> New Protocol, Business Practice, Criteria, Tariff		
REVISION REQUEST RISK DRIVERS		
Are there existing risks to one or more SPP Members or the BES driving the need for this RR? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, provided details to explain the risk and timelines associated: <input checked="" type="checkbox"/> Compliance (Tariff, NERC, Other) FAC-002 <input type="checkbox"/> Reliability/Operations <input type="checkbox"/> Financial		
SPP Documents Requiring Revision: <i>Please select your primary intended document(s) as well as all others known that could be impacted by the requested revision (e.g. a change to a protocol that would necessitate a criteria or business practice revision).</i>		
<input type="checkbox"/> Market Protocols	Section(s):	Protocol Version:
<input type="checkbox"/> Operating Criteria	Section(s):	Criteria Date:
<input type="checkbox"/> Planning Criteria	Section(s):	Criteria Date:
<input type="checkbox"/> Tariff (OATT)	Section(s):	
<input checked="" type="checkbox"/> Business Practice	Business Practice Number: (new) Definition of Material Modification for Network Upgrades	

<input type="checkbox"/> Integrated Transmission Planning (ITP) Manual	Section(s):
<input type="checkbox"/> Revision Request Process	Section(s):
<input type="checkbox"/> Minimum Transmission Design Standards for Competitive Upgrades (MTDS)	Section(s):
<input type="checkbox"/> Reliability Coordinator and Balancing Authority Data Specifications (RDS)	Section(s):
<input type="checkbox"/> SPP Communications Protocols	Section(s):
OBJECTIVE OF REVISION	
<p>Objectives of Revision Request: <i>Describe the problem/issue this revision request will resolve.</i></p> <p>FAC-002 - Facility Interconnection Studies, Application Guidelines page 8 states, “Entities should have documentation to support the technical rationale for determining whether an existing interconnection was “materially modified.” Recognizing that what constitutes a “material modification” will vary from entity to entity, the intent is for this determination to be based on engineering judgment.” SPP is creating this business practice as a guideline to help support the technical rationale of what constitutes a “material modification” for the Network Upgrade definition.</p> <p><i>Describe the benefits that will be realized from this revision.</i></p> <p>Determining what constitutes a “material modification” for Network Upgrades, creates more transparency. The reader will be able to use this business practice as a guideline to determine what modifications to existing transmission facilities that are connected on the Bulk Electric System are deemed “material”.</p>	
REVISIONS TO SPP DOCUMENTS	
<p><i>In the appropriate sections below, please provide the language from the current document(s) for which you are requesting revision(s), with all edits redlined.</i></p>	

SPP Business Practices

Definition of Material Modification for Network Upgrades

NERC FAC-002 - Facility Interconnection Studies, Application Guidelines page 8 states, “Entities should have documentation to support the technical rationale for determining whether an existing interconnection was “materially modified.” Recognizing that what constitutes a “material modification” will vary from entity to entity, the intent is for this determination to be based on engineering judgment.”

This Business Practice shall define “material modification” for the Network Upgrade definition. If one or more “material modification” criteria have been met, SPP, as the Planning Coordinator, will require analysis of these changes under its OATT Planning Processes.

Material Modifications

Change(s) to the Bulk Electric System and/or SPP tariff facilities that have not been previously studied and approved by the Transmission Provider including ~~new lines, new transformer branches,~~ re-conductors, changes in line operating voltage, ~~connection or connection~~ of new or existing branches (whether lines or transformer branches) to stations or lines to which they are not connected for greater than 12 months, or disconnection of branches (whether lines or transformer branches) from the stations or lines to which they are connected for greater than 12 months.

Revision Request Comment Form

RR #: 261	Date: 2/13/2018
RR Title: Sponsored Upgrade Clarification	
SUBMITTER INFORMATION	
Name: Micha Bailey	Company: Southwest Power Pool
Email: mcbailey@spp.org	Phone: 501.688.2522
OBJECTIVE OF REVISION	
<i>Provide the objective language from the revision request for which you are submitting comments.</i>	
COMMENTS	
<p>The RTWG recommended SPP to draft some comments during the 20180125 meeting. Below are the following comments:</p> <ol style="list-style-type: none"> 1. Upon further review of the definition of “Network Upgrades”, SPP added the word “material” to match the NERC FAC-002 language. A Business Practice will need to be created to define “material modifications”. 2. “Transmission Maintenance Plans” section is deleted out and will be discussed at a future time with the RTWG. 3. “Any entity that seeks construction” is deleted out. This is replaced by the clarification that any Network Upgrade that is not part of a FERC-approval local planning process and has not been identified through any of the defined SPP transmission planning processes will be a Sponsored Upgrade. 4. Correction to the strike through word “may” that inadvertently got deleted before RR261 was posted to spp.org <p>All changes are highlighted in yellow.</p> <p>Comments 2018xxxx</p> <p>Added the exclusion of transmission maintenance from the definition of Sponsored Upgrades.</p> <p>All changes are highlighted in green.</p>	
PROPOSED REVISION	
<i>Provide proposed modifications (redlined) to the revision request for which you are providing comments. Use language from the revision request and redline with your additional edits.</i>	
SPP Tariff (OATT)	

Section 1.1 Definitions

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Network Upgrades: All or a portion of the **material** modifications or additions to transmission-related facilities that are integrated with and support the Transmission Provider's overall Transmission System for the general benefit of all Users of such Transmission System.

Sponsored Upgrades: Network Upgrades, requested by a Transmission Customer or other entity, which do not meet the definition of any other category of Network Upgrades and at the time requested, have not been identified as required by any of the following SPP transmission planning studies as defined in Attachment O of this tariff **excluding any transmission maintenance (including proactive rehabilitation) Force Majeure as defined in Section 10.1 of this tariff, or NERC compliance.**

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ATTACHMENT O TRANSMISSION PLANNING PROCESS

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II. Roles and Responsibilities

References to the “stakeholder working group” is a generic term that references those working group(s) as defined in the SPP Bylaws, Sections 3 through 6 that are charged with the transmission planning process. The current names of all the working groups shall be posted on the SPP website.

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6) Transmission Maintenance Plans

i) Individual Transmission Owners within the SPP Region shall submit transmission maintenance plans to the Transmission Provider

ii) For each annual planning cycle, Transmission Owners must provide to the Transmission Provider their transmission maintenance plans by April 1st.

IV. Other Planning Studies

1) Sponsored Upgrade Studies

Any entity that seeks construction of Network Upgrades that are not approved using one of the SPP transmission planning processes or a FERC-approved local planning process as described in Attachment O of this tariff shall be considered first request that a Sponsored Upgrade and shall be evaluated by the Transmission Provider. These planning processes include the following: 1) Aggregate Transmission Service Study; 2) Generator Interconnection Request; 3) the Integrated Transmission Planning Assessment; 4) the Balanced Portfolio process; 5) the high priority study process; 6) the 20-Year Assessment; 7) the evaluation of proposed Interregional Projects; and 8) the Delivery Point Addition Process in Attachment AQ of this Tariff may request that a Sponsored Upgrade be built. The Transmission Provider SPP will evaluate potential reliability impacts and, where appropriate, potential congestion the impacts of any proposed Sponsored Upgrade on the Transmission System reliability, and the Transmission Provider shall identify any necessary mitigation of these impacts. The proposed Sponsored Upgrade shall not be approved as a Sponsored Upgrade if it has been previously identified and included in the current SPP Transmission Expansion Plan transmission planning processes, as either 1) an upgrade required to satisfy requests

~~for Transmission Service; 2) an upgrade required to satisfy requests for generation interconnection; 3) an approved ITP Upgrade; 4) an upgrade within approved Balanced Portfolios; or 5) an approved high priority upgrade.~~ Such entity must be willing to assume the cost of such Sponsored Upgrade, study costs, and any cost associated with such necessary mitigation. The proposed Sponsored Upgrade will be submitted to the proper stakeholder working group for their review as a part of the transmission planning process.

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