



WESTERN ENERGY IMBALANCE SERVICE BUSINESS PRACTICES

Maintained by Southwest Power Pool Staff

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REVISION HISTORY

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INTRODUCTION, REVISIONS, AND SPP CONTACTS

The statements included in this document reflect administrative practices of Southwest Power Pool (“SPP”) in the facilitation of energy imbalance service provided in accordance with the rates, terms, and conditions contained in the Western Energy Imbalance Service (“WEIS”) Tariff. The WEIS Tariff is posted on the SPP public website, under WEIS Governing Documents¹.

The WEIS Business Practices are administrative elaborations and clarification of the WEIS Tariff for the purpose of administering the services provided for in the WEIS Tariff. The WEIS Business Practices establish a basis for consistent application of WEIS Tariff provisions.

From time to time, it may be necessary to implement new WEIS Business Practices or revise existing WEIS Business Practices. Any revisions to this document, including the implementation of a new WEIS Business Practice, will be subject to the WEIS Revision Request Process².

Customers are encouraged to submit questions related to WEIS Business Practices to the SPP Request Management System (“RMS”)³.

The format for each WEIS Business Practice includes some or all of the following sections:

- **Purpose** – statement of purpose for the business practice.
- **Business Practice** – the official statement of the SPP practice. WEIS Business Practices are Staff interpretations of the applicable provision or policy. All other wording is complimentary to the Practice.
- **Explanation / Rationale** – background and principle(s) that guided the development of the specific WEIS Business Practice.
- **Examples** – situational application of the specific WEIS Business Practice.
- **Terms and Acronyms** – Terms and acronyms that may be found in the specific WEIS Business Practice.

Related policies and practices may be referenced by footnote. The footnote will include the Internet address as a hyperlink, or bookmark to the location in this document, whichever is

¹ Link to WEIS Tariff - <https://www.spp.org/spp-documents-filings/?id=208907>

² Link to WEIS Revision Requests - <https://www.spp.org/western-services/weis-revision-requests/>

³ Link to SPP RMS - <https://spprms.issuetrak.com/login.asp>

applicable. For example, a reference to the WEIS Tariff may be made as (WEIS Tariff⁴). The Internet address for the WEIS Tariff is listed as a footnote at the bottom of the page. Selecting the hyperlink (blue lettering) will take the reader to the Internet site. Selecting the back arrow from the Internet site will return the reader to this document.

⁴ Link to WEIS Tariff - <https://www.spp.org/spp-documents-filings/?id=200844>

WEIS BUSINESS PRACTICES

1050 - SERVICE FLOW CONSTRAINTS

PURPOSE

This business practice describes how the Western Energy Imbalance Service ("WEIS") Market will manage Service Flow Constraints in the WEIS Security Constrained Economic Dispatch ("SCED") solution.

BUSINESS PRACTICE

GENERAL

For the purposes of this Business Practice, the constraints on the transmission system are separated into two categories: physical transmission constraints and non-physical transmission constraints.

A physical transmission constraint is a physical limitation on the transmission system represented by a System Operating Limit ("SOL") or Interconnection Reliability Operating Limit ("IROL"). When a physical transmission constraint exists, the Reliability Coordinator ("RC") in the Western Interconnection may provide a relief obligation to the WEIS Market in accordance with its congestion management procedures or the participating Balancing Authority will provide a relief obligation in accordance with the Western Interconnect Unscheduled Flow Mitigation Procedure ("WIUFMP")⁵.

A Service Flow Constraint ("SFC") is a non-physical transmission limitation that represents the transmission rights that one or more WEIS Market Participants, Joint Dispatch Transmission Service Providers, or participating Balancing Authorities have to utilize the capacity on certain transmission facilities. SFCs represent the transmission rights that may be a result of full or partial ownership of certain transmission facilities or be a result of executed agreements or contracts which include provisions for rights for the WEIS Market to use certain transmission facilities. By continuously activating SFCs in the SCED algorithm, SPP ensures that the WEIS Market dispatch does not exceed the transmission rights provided to SPP by WEIS Market Participants, Joint Dispatch Transmission Service Providers, or participating Balancing Authorities or permitted by other agreements or contracts.

MANAGING SERVICE FLOW CONSTRAINTS IN THE WEIS MARKET

SFCs are continuously activated in the WEIS Market. It will be the responsibility of the WEIS Market Operator to ensure the constraints are activated. This ensures that the WEIS Market SCED does not allow the WEIS Market economic dispatch to exceed an SFC limit. The list of SFCs

⁵ Link to WIUFMP - <https://www.spp.org/spp-documents-filings/?id=175276>

monitored by the WEIS Market Operator, along with the limit and shadow price of each SFC, will be posted on the SPP Portal.

SETTING LIMITS FOR SERVICE FLOW CONSTRAINTS

Prior to beginning participation in the WEIS Market, WEIS Market Participants and Joint Dispatch Transmission Service Providers, in coordination with their WEIS Participating Balancing Authority, are required to provide information to SPP as necessary to model SFCs. After initial modeling of an SFC, it is expected that changes regarding the limit or status of an SFC will be provided to SPP by the WEIS Participating Balancing Authority through the ICCP connection between SPP and the WEIS Participating Balancing Authority or through communication directly with the WEIS Market Operator. In the event that a Market Participant communicates to SPP through their Balancing Authority changes in their transmission rights that result in a new SFC, the new SFC will be added to the WEIS Market at that time. SPP maintains a list of activated SFCs on the SPP Portal. Incremental Transmission Rights as a Result of Reserving Long-Term Transmission Service or Short-Term Transmission Service

When a WEIS Market Participant reserves long-term transmission service (one year or longer in duration) or short-term transmission service (less than one year in duration) which results in incremental transmission rights for the WEIS Market across an SFC, the WEIS Market Participant which has reserved the long-term transmission service or short-term transmission service, in coordination with the WEIS Participating Balancing Authority, will include the incremental rights in the submission of the SFC limit to SPP by the WEIS Participating Balancing Authority through the ICCP connection between SPP and the WEIS Participating Balancing Authority or through communication directly with the WEIS Market Operator.

LIMITING WEIS MARKET FLOWS ON SERVICE FLOW CONSTRAINTS

SPP will incorporate all SFC limitations communicated to SPP by Participating Balancing Authorities into the SCED solution by ensuring the constraints are continuously activated. Activating an SFC in the SCED forces the algorithm to maintain the WEIS Market economic dispatch at or below the limit provided by the Participating Balancing Authority.

The impacts of WEIS Market flows on SFC limitations are based on the most recent network topology from the SPP Energy Management System ("EMS"). WEIS Resource and Load impacts (generator and load shift factors) are based on powerflow analysis to determine the impact of incremental injections or withdrawals at those locations on the SFC limitation. Because these are not considered WEIS Market flows, SPP does not consider impacts from external resources and loads or imbedded non-participating resources and loads (PPR and PPL) when performing the SCED.

TERMS AND ACRONYMS

ACRONYM	TERM
IROL	Interconnection Reliability Operating Limit
EMS	Energy Management System
RC	Reliability Coordinator
SCED	Security Constrained Economic Dispatch
SFC	Service Flow Constraint
SOL	System Operating Limit
SPP	Southwest Power Pool
WEIS	Western Energy Imbalance Service
WIUFMP	Western Interconnect Unscheduled Flow Mitigation Procedure