



Order 890 Requirements regarding Planning Re-Dispatch & Conditional firm

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Portland Airport Sheraton

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**“To insure efficient, effective, coordinated use & expansion
of the member’s transmission systems in the Western
Interconnection to best meet the needs of customers &
stakeholders. “**



Order 890 Planning Requirements PN 418 – 602: Principles related to Re-Dispatch & Conditional Firm

- Comparability Principle 5
 - Similarly situated customers must be treated comparably
 - Doesn't specifically site re-dispatch but implies same as native load treatment (re-dispatch is defined as a comparable service in Paragraph 911)
- Planning Principle 8 – Economic Planning Studies
 - Coordinated region wide congestion studies are required to:
 - Identify congested portions of the transmission system
 - Locations & magnitude
 - Identify costs of congestion (re-dispatch)
 - Re-dispatch cost information to be provided by customers
 - Regional & Local detail required
 - Evaluate & inform on the need for transmission expansion to reduce congestion
 - Facilitate planning of the integration of new resources (inc DSM) to relieve congestion
 - Informs stakeholders to facilitate clustered, aggregated, or study requests on regional basis without the requirement for individual service requests.



Order 890 Non-Rate Terms & Conditions

PN 901-1164

Firm PTP Service Requirements

- Existing OATT
 - Planning Re-dispatch: Can be requested by customer if less expensive than expansion
 - Identified in system impact & facility studies
 - If re-dispatch is economic & customer chooses, it replaces expansion, customers pay the cost of re-dispatch
 - Can be long term
 - Reliability Re-Dispatch: Re-dispatch of network resources to avoid curtailment of network load
 - Network customers pay load ratio share of re-dispatch costs



Non-Rate Terms & Conditions #901

Firm PTP Service Requirements

- 890 New Pro Forma Requires
 - TP is obligated to offer Planning Re-Dispatch and/or Conditional Firm
 - If Long term Firm ATC is not available
 - TP to provide estimates for re-dispatch, conditional firm, & expansion
 - Ex-Ante estimates required for:
 - Planning Re-Dispatch costs (non-binding)
 - Hours & conditions for firm service for Conditional Firm
 - *Ex ante is Latin for "beforehand". In models where there is uncertainty that is resolved during the course of events, the ex antes values (e.g. of expected gain) are those that are calculated in advance of the resolution of uncertainty*



Non-Rate Terms & Conditions, cont. Firm PTP Service Requirements

- TP required to provide Planning Re-Dispatch with owned generation
 - If Re-dispatch is insufficient from owned generation:
 - Must identify re-dispatch options on others generation within & outside Control Area
 - Must Coordinate between TP, third party generator & customer
- If Planning Re-dispatch is insufficient (or doesn't meet customer requirements) from TP owned resources, TP also obligated to offer Conditional Firm
 - Interim product for service requests for 1 year or longer
 - Bridge product - customers must agree to upgrade the system or
 - Service is re-assessed every two years & can be reduced
 - 5 Year contracts can be rolled over up to 10 years (subject to above) TP obligated to post
- Re-dispatch & Conditional Firm requirements are required to be identified in System Impact study process
- TP is required to post:
 - Re-dispatch costs
 - Offers of re-dispatch from other generation
- Reconciliation of Posted actual costs with Congestion Studies



Issues

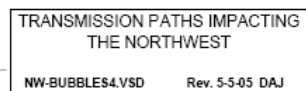
- TPs need to:
 - predict accurate re-dispatch requirements & curtailment hours on marketed, scheduled, & desired paths.
 - to identify & provide info on other's resources to provide effective re-dispatch
 - Location & constraining paths, distribution factors
 - Costs
 - Effects of re-dispatch on external parallel paths
- Differences between areas in the NWPP
 - Thermal based transmission systems & hydro based systems
 - Transmission sizing
 - Location of re-dispatchable resources
 - Control Areas & effective re-dispatchable generation
- Need to align products such as conditional firm & planning re-dispatch across multiple paths & systems in series
 - Especially in eastern part of the system where marketed & desired contract paths are flowgates
 - Need to align
 - Type of service
 - Hours of conditional firm
 - Other 888 products (NT & non-firm) with new products



Northern Tier Solutions

- Transmission Use & Planning Work Groups coordination
 - Consistent definitions of products
 - Service types, margins, POD & PORs, ATC definitions
 - Among NTTG Companies
 - Between NTTG Planning & Use analysis
 - ATC Coordination
 - analysis generated study requests & study request aggregation
 - Frequency of ATC determination and coordination with planning cycles
 - Website posting of re-dispatch costs & generation re-dispatch availability
 - Compilation & validation of re-dispatch costs for NTTG resources & modeling for TEPPC/SRPG database
 - Coordination and Development of:
 - Data submittal processes and standards for use with WECC and TPs
 - Subregional TP Re-dispatch & Conditional Firm system impact studies with Regional congestion studies
 - Pooling of re-dispatch & CF studies

Identified Pa



Path Map

POR_POD

• <all other values>

Owner

- Idaho
- NorthWestern
- PacifiCorp East
- PacifiCorp West

Paths

— <all other values>

Owner

- Idaho
- NorthWestern
- PacifiCorp East
- PacifiCorp West

