“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. “
Agenda

Meeting Objective/Purpose

- NTTG overview and Order 890 Planning “Strawman” update
- Transmission use - understanding the existing system usage
- NTTG “Fast Track” transmission projects update

Summary/Questions
Northern Tier is focused on:

– Implementing existing transmission expansion plans
– Complying with FERC requirements
– Incorporating customer input into processes while maintaining schedule for deliverables
– Avoiding duplication by utilizing existing forums to the extent possible

– Results!
Northern Tier consists of:

- **Steering Committee**
  - State commissioners and government representatives
  - Member utility executives

- **Working Committees**
  - Cost Allocation – determines cost allocation for new transmission projects
  - Transmission Planning – “fast track” and long term planning
  - Transmission Use – “voice of customer” and issues pertaining to the use of the existing transmission system

- **Task forces**
  - Order 890 planning “strawman”
  - Cost allocation “strawman”
  - Targeted administrative issues as required
NTTG Planning Strawman

Nine Principles –

3 Level Coordination
- West wide through WECC/TEPPC
- Sub-Regional, along with neighbors
- Local planning by Transmission Providers

Study cycles
- Provide “intel” to customers/developers

Cost Allocation
- State participation
- define cost types and principles
NTTG Two-Step Process

Step 1: Northern Tier Transmission Group Planning Process


2. Expansion Plan & Projects With Benefits Parsed


4. Draft Annual Expansion Plan

5. NTTG Steering Committee Plan Approval


8. Customer Decision Process
   Informed Customers, Stakeholders, Other Interested Parties


10. Service Request Aggregation Process
    Via NTTG Open Season or Coordination

11. Coordinated Queue & Refined Requests

12. Transmission Provider OATT Process

13. Construction Plan, Permitting, Build

14. TP Regulatory Approval and Rate Process

Step 2: Individual Transmission Provider Project Implementation Process
Transmission Use
Understanding the Capabilities of the Existing Network

ATC Acronyms

- Open Access Same-Time Information System (OASIS)
- Total Transfer Capability (TTC)
- Available Transfer Capability (ATC)
- Transmission Reliability Margin (TRM)
- Capacity Benefit Margin (CBM)
- Existing Transmission Commitments (ETC)
- Points Of Delivery and Points Of Receipt (POD/POR)
Transmission Use
Understanding the Capabilities of the Existing Network

Transmission Customers want:

- Full transparency into ATC, including building blocks
  - Need to ensure customers’ commercial privacy is maintained
- A common place to see ATC components in a common format
- To be able to see ATC for high level understanding without becoming a registered customer
- An understanding of why ATC components are set at the quantities shown
- Simple translations of often technically complicated issues
Transmission Use
Understanding the Capabilities of the Existing Network

Transmission Providers want:
– To sell ATC on a long-term firm basis
– To minimize disputes on ATC related issues
– To meet regulatory requirements while maintaining efficiencies
– To protect customer confidentiality
Status of many OASIS systems today

– ATC transparency is available typically only to registered users (customers) of individual companies’ OASIS sites

– ATC is typically only shown without the full transparency into reserved use amounts

– ATC information, with “building blocks”, is not typically shown in a common place or in a consistent format
Phase 1 of ATC transparency

- Complete
  - Definition of the building blocks of ATC
  - “Road map” of member utilities ATC, and which scheduled paths is applies toward
  - “English name” definition of OASIS POD/PORs

- Coming soon
  - Path by path presentation of compiled ATC and components
  - Posting of long term ATC data on the NTTG website
    - Targeted for June 25, 2007 in Portland, Oregon
    - Announcement to come after stakeholder input at May 23, 2007 meeting
Transmission Use
Understanding the Capabilities of the Existing Network

Path Map

<table>
<thead>
<tr>
<th>POR_POD</th>
<th>POR_POD Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>all other values</td>
<td>all other values</td>
</tr>
</tbody>
</table>

Owner
- Idaho
- NorthWestern
- PacificCorp East
- PacificCorp West

Paths
- all other values

The map illustrates the existing network with various pathways and network names such as Oregon Border Path, Idaho, and Wyoming North. The map also includes labels for specific locations and network systems such as the Northern Tier Transmission Group.
Phase 2 of ATC transparency
  – Federal Energy Regulatory Commission's Order 890 made many changes to ATC processes, specifically regarding ATC transparency
  – Phase 2 will include
    • Establishing a benchmark for ATC numbers (after Phase 1) (Order 890 paragraph 369)
    • Setting up a process to identify changes in TTC greater than 10% and explain to customers (Order 890 paragraph 369)
    • Setting up a process to provide narratives for why ATC remained at zero for over six months (Order 890 paragraph 371)
    • Other input from customers and stakeholders
Phases under initial charter

1. Identify fast track transmission projects by June 30, 2007

2. Establish Order 890 planning process which provides for coordinated transmission plans
Process Summary and Stakeholder Input

- Assemble load forecast from IRPs and other data updates
- Identify potential resource areas
- Review past studies to validate
- Recognize hubs
- Connect load centers, hubs, resource areas
2017 Forecasted "Incremental" Loads and Potential Resources with Transmission Hubs and Candidate Transmission Additions

This information is still being updated. Additions or modifications are welcome.
Please use the PowerPoint version to modify and send your comments
Missing data may be updated from the SSG-WI data base

Candidate Transmission
Fast_Track Projects
- FAST TRACK
- Potential

2017 Load Forecast
- MW Load

Potential Resources
Type
- Coal
- Gas
- Wind

Transmission Hubs

Northern Tier Transmission Group
NTTG Fast Track Projects

Transmission Segments of Interest
Next public stakeholder meeting May 23, 2007
  – 9:00 a.m. – 3:00 p.m. (Mountain Daylight Savings Time)
  – Salt Lake City, Utah
  – Agenda on NTTG web site -> www.NTTG.biz
  – Web conferencing available

  – Embassy Suites Hotel, Salt Lake City
    • 110 West 600 South
    • Salt Lake City, UT 84101
    • Phone: 801-359-7800
    • Fax: 801-538-0305

  – For RSVPs please contact Patty Deas
    • patty.deas@pacificorp.com or
    • (503) 813-5740
Summary

• Northern Tier is committed to transmission expansion and increasing the use and efficiency of the existing transmission system

• Questions?