

Transmission Use Committee

Available Transfer Capability Phase 1

Portland, OR July 10, 2007

"To ensure efficient, effective, coordinated use & expansion of the member's transmission systems in the Western Interconnection to best meet the needs of customers & stakeholders."



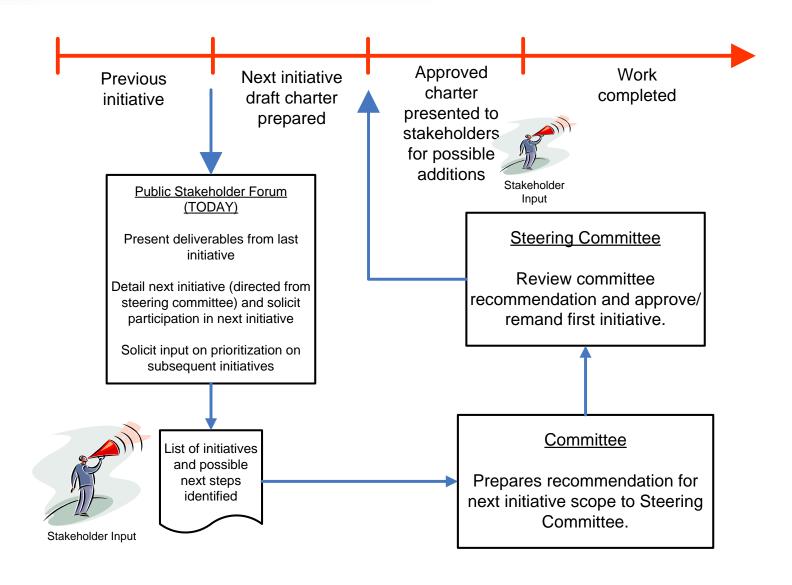
Brian Weber, PacifiCorp (Chair)

Jim Tucker, Deseret Power Electric Cooperative

John Canavan, NorthWestern Energy

Pat Monson, Idaho Power Company

Overview of Northern Tier project charter process





- Steering Committee representatives
 - State commissioners and government representatives
 - Commissioner Marsha Smith Co-Chair, Idaho Public Utilities Commission
 - Commissioner Lee Beyer Oregon Public Utility Commission
 - Commissioner Doug Mood Montana Public Service Commission
 - Larry Nordell Montana Consumer Counsel
 - Commissioner Steve Oxley Wyoming Public Service Commission
 - Commissioner Ric Campbell Utah Public Service Commission
 - Utility executives
 - John Cupparo Co-Chair, PacifiCorp
 - Curt Winterfeld Deseret Power Electric Cooperative
 - Lisa Grow Idaho Power Company
 - Ray Brush NorthWestern Energy
 - Doug Hunter Utah Associated Municipal Power Systems (UAMPS)



Phase 1 Charter Review

- Posting a map on the NTTG website that identifies the transmission paths of NTTG participants, along with the following information:
 - Various Points of Delivery/Receipt, along with the OASIS schedule for designated paths,
 - Associated transmission provider, and
 - Long-term firm annual TTC and ATC
- An agreed to process and schedule for maintaining this data once it has been posted.
- Providing a map legend containing locational definition of Points of Delivery (PODs) and Points of Receipt (PORs) used to schedule paths on each OASeS
- Providing a definition of each building block of ATC provided in the ATC transparency initiative
- Adding disclaimer to the information provided to ensure that customers ultimately rely on the each OASeS for the latest ATC data
- Providing instructions on how to get to each provider's ATC data on their respective OASeS
- Establish a schedule for updating the ATC information provided.



Available Transfer Capability (ATC)*

 A measure of the transfer capability remaining in the physical transmission network for further commercial activity over and above already committed uses

ATC = TTC - TRM - CBM - ETC

* Subject to change from ongoing NERC/NAESB processes



Total Transfer Capability (TTC)*

 The amount of electric power that can be transferred over the interconnected transmission network in a reliable manner while meeting all of a specific set of defined pre- and post-contingency system conditions.

Existing Transmission Commitments (ETC)*

 Reservations of transmission capacity by network and point-to-point customers.

* Subject to change from ongoing NERC/NAESB processes



Transmission Reliability Margin (TRM)*

 The amount of transmission transfer capability to provide a reasonable level of assurance that the interconnected transmission network will be secure

Capacity Benefit Margin (CBM)*

 The amount of firm transmission transfer capability preserved for Load Serving Entities (LSEs) on the host transmission system where their load is located, to enable access to generation from interconnected systems to meet generation reliability requirements

^{*} Subject to change from ongoing NERC/NAESB processes



All ATC (Available Transmission Capacity) related information, including any information used to calculate ATC, contained on

- (1) the Northern Tier Transmission Group (NTTG) Website,
- (2) the NTTG section of any individual transmission provider's Open Access Same-time Information System (OASIS) website, or
- (3) in any NTTG related electronic or paper documentation

represents information at a specific point in time and therefore, because of the dynamic nature of ATC, should not be relied on as current ATC. Current ATC numbers are contained on the Desert Power Electric Cooperative, Idaho Power Company, PacifiCorp and NorthWestern Energy OASIS sites. Desert Power Electric Cooperative, Idaho Power Company, PacifiCorp and NorthWestern Energy expressly state that the ATC information on the (1) NTTG Website, (2) the NTTG section of any transmission provider's OASIS website, or (3) in any other non-OASIS documentation is only informational in nature and shall not be honored in conducting transmission business. All transmission business shall be conducted on the individual OASIS sites using the ATC information posted on those sites.



Company specific TRM and CBM discussion

 Supporting documentation posted on NTTG website and individual transmission providers' websites



- Pat Monson
 - Idaho Power Company existing scheduled paths
 - Idaho Northwest joint facilities



Pat Monson

- Idaho Power Company existing scheduled paths
 - PATH 16 Idaho to Sierra (POR/POD is M345)
 Scheduling capability based on Sierra's (SPPC) system import and export limits and the flows on their other tie lines.

North to South

Year round rating of 500 MW

Year round OTC/TTC of 500 MW

South to North

Year round rating of 360 MW

Year round OTC/TTC of 262 MW



PATH 17 – Borah West (POR/POD is BOBR)
 TTC based on thermal limitations of the Path
 East to West

Year round rating of 2557 MW
Year round OTC/TTC of 2557 MW

West to East

Capacity not defined



Idaho – Northwest joint facilities
 PATH 14 – Idaho to Northwest
 OTC/TTC based on thermal limitations of the Path

West to East (POR/POD of LaGrande/ENPR/LOLO)

Summer rating and breakdown (June thru October)

BPA to IPC interconnection 350 MW

PacifiCorp to IPC interconnection 400 MW

AVA to IPC interconnection 340 MW

Total -----

1090 MW

Summer OTC/TTC of 1090 MW



Spring rating and breakdown (April thru May)

BPA to IPC interconnection 350 MW

PacifiCorp to IPC interconnection 400 MW

AVA to IPC interconnection 400 MW

Total -----

1150 MW

Spring OTC/TTC of 1150 MW



Winter rating and breakdown (November thru March)

BPA to IPC interconnection 350 MW

PacifiCorp to IPC interconnection 400 MW

AVA to IPC interconnection 450 MW

Total -----

1200 MW

Winter OTC/TTC of 1200 MW



PATH 14 – Idaho to Northwest

East to West (POR/POD of LaGrande/ENPR/LOLO & POD M500)

Year round rating and breakdown

IPC to PacifiCorp interconnection 1587 MW

IPC to BPA interconnection 413 MW

IPC to AVA interconnection 400 MW

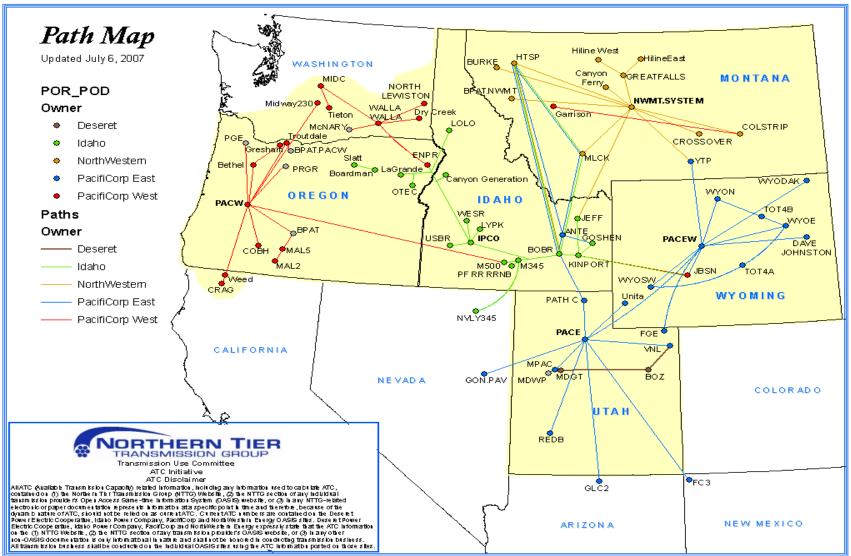
Total -----

2400 MW

Year round OTC/TTC of 2304 MW



Idaho Power Company

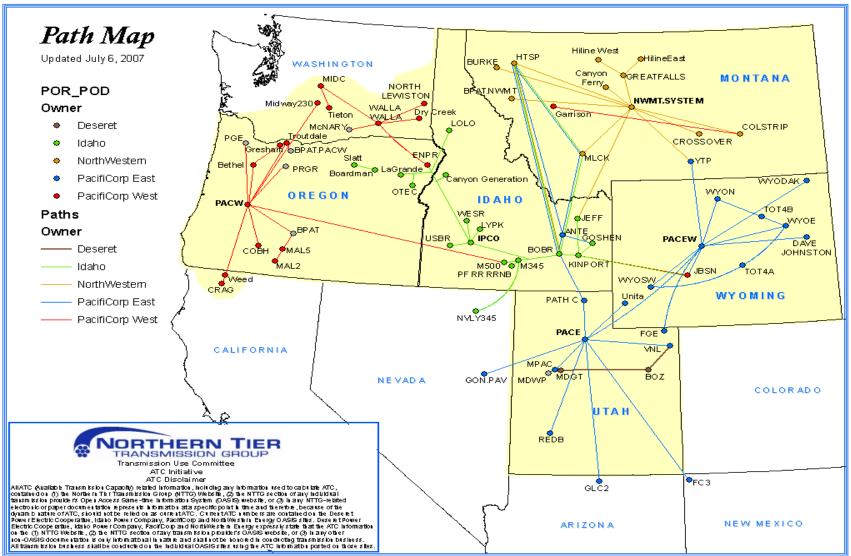




- NorthWestern Energy Company
 - NorthWestern Energy Company existing scheduled paths
 - AMPS (Hot Springs to Borah/Brady) joint facilities



NorthWestern Energy

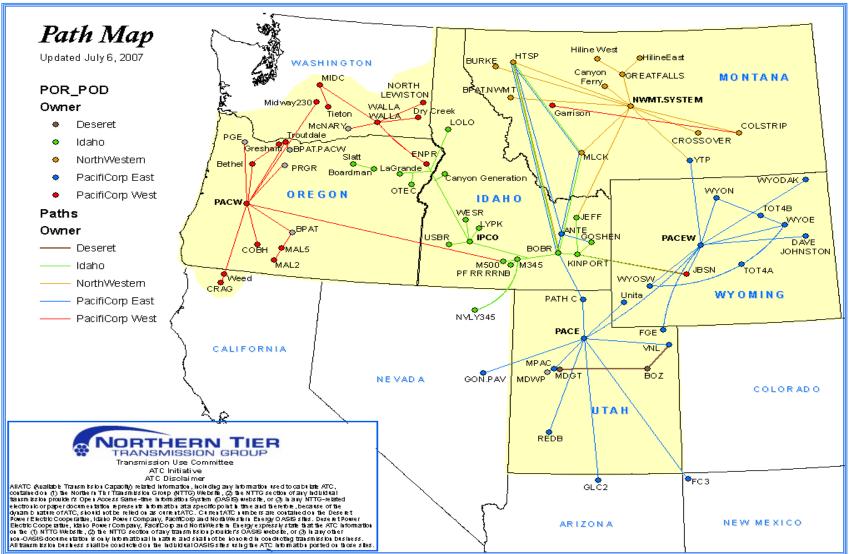




- Brian Weber
 - PacifiCorp (East and West) existing scheduled paths
 - Bridger West joint facilities



PacifiCorp

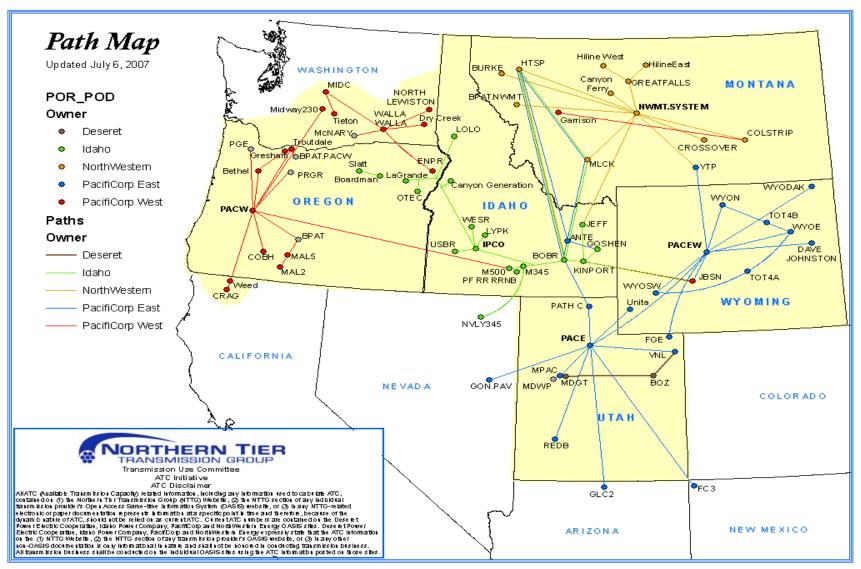


Deseret Power Electric Cooperative

- Jim Tucker
 - Deserte Power Electric Cooperative existing scheduled paths



Deseret Power Electric Cooperative





Phase 2 Charter

- Posting narratives for all scheduled paths meeting the requirements of Order 890 on the NTTG website,
- Discussing reasons for unchanging monthly and yearly ATC values on paths currently having a value of zero ATC,
- Discussing reasons for monthly and yearly ATC values changing more than 10%,
- Providing a regular forum for public selection and prioritization of economic congestion study areas based on ATC values presented, and
- Establishing a 6 month recurring schedule for ATC review and customer input through NTTG.



Phase 2 Charter



- Your input needed!
- Schedule for recurring ATC and narratives
 - Before summer/winter? -> When?
- Depth of narratives for ATC
 - High level costs?
 - Constraining segments?
 - Specific equipment/facilities?
 - How to make sure Critical Energy Infrastructure Information (CEII) is secure?



Phase 2 Charter



Your input needed!

Stakeholder Input

- Economic congestion studies
 - Potentially overlapping and duplicate requests
 - Limited resources to study requests
 - Best value for the most customers
 - Defined as only high level value of resource "nodes" ->
 Reference WECC/TEPPC work
 - Voting via public forums is suggested approach to prioritize



Phase 3 Charter



Stakeholder Input

Your input needed!

Possible next initiatives (from previous meetings)

- Transparency into the derivations of ATC building blocks, and specifically TTC, including assumptions for load, transfers, and generation utilization
- 2) Standardization of the calculation method for ATC building blocks, including TTC, TRM, and CBM across NTTG footprint
- 3) Standardization of the assumptions used in the derivation of ATC, including load, transfers and generation utilization
- 4) Regular forum for updates on the projected current year/season short term availability and impacts of scheduled outages or other irregularities
- 5) Public forum for customer input into the ATC study schedule
- 6) Public schedule based on customer input for ATC re-evaluation on scheduled paths
- 7) Tracking transmission queue request quantities to identify interest in congestion relief
- 8) Establish a public forum to review transmission usage and path utilization factor compared to ATC



Phase 3 Charter



Your input needed!

Stakeholder Input

Possible next initiatives (from previous meetings) (continued)

- 9) Development of a linked spreadsheet to the map that identifies Total Transmission Capacity (TTC) being decremented by various uses and network requirements including subscribed obligations
- 10) Dynamic linked alignment with specific providers OASIS data and service requests mechanism and the NTTG website data and map
- 11) ATC estimates for integration of non traditional OATT "firm like" products, such as a possible conditional firm product
- 12) Addition of discussions and posting for ATC on outbound or inbound paths to adjacent footprints
- 13) Combination of individual ATCs into "multiple path" ATCs across multiple control areas
- 14) Providing historical non-firm ATC derived from actual schedule data, by hourly increments, for certain paths
- 15) Historical summary of the amount of time TRM reserves are called upon
- 16) Establishing new scheduled internal paths based on stakeholder input





• OTHERS?



- Phase 1 deliverable complete
- Phase 2 charter revision and meeting schedule
 - Incorporate reasonable additions and changes, subject to Steering Committee approval
- Phase 3 Will post charter for review at next public meeting with recommended next step
- Thank you!