Transmission Planning
Attachment K Public Input Meeting

FERC 890, 2010-11 Biennial Cycle
3rd Quarter Meeting

October 1, 2010

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Agenda

	Topic	Presenter
9:00 – 9:10	Greetings and Introduction	Austin
9:10 – 9:15	Status of the TSP Process ‣ Discuss status of the local planning process ‣ Draft Transmission System Plan	
9:15– 9:35	Coordination with other Processes on Reliability ‣ Status of ongoing Area Planning Studies • PACE • PACW	Hagen/Tjoelker
9:35 – 9:50	PAC's 5-yrs Studies – High Level Summary of Results	Adams/Frick
9:50 – 10:00	Q & A	All

3rd Quarter Deliverables

Process

- Discuss status of the local planning process and interim iterations of the draft Transmission System Plan:
  - Technical Studies – for designing a reliable system
  - Economic Studies - economic analysis to identify transmission congestion
- Discuss draft Transmission System Plan
  - Criteria, assumptions and database
  - Adjust to make consistent with local planning assumptions and data
  - Schedule and Components
  - Preliminary results
- Review of the Transmission System Plan Outline

Status of the TSP Study

Process

- PacifiCorp has published a "Local Transmission System Planning Process Practices Document", referenced in the Tariff and is posted on OASIS – This document contains rules and practices related to transmission service, and planning activities, covering:
  - Technical Studies – for designing a reliable system
  - Economic Studies - economic analysis to identify transmission congestion
- PacifiCorp has been Providing quarterly updates to Stakeholders on local transmission studies (5-yrs studies; reliability assessment studies)
- Will post a draft TSP in Q4, 2010

Study Requests

- Stakeholders can submit study requests through the OASIS process.
- No study requests were submitted in Q1
- Next chance to submit requests will be in Q5

PacifiCorp 8 Quarter Process

Time Line

PAC BIENNIAL TRANSMISISON PLANNING CYCLE 2010-2011				
	Quarter	Date	Technical Studies	Economic Studies
			Activities	Activities
Year 1 -2010	Q1	Jan - Mar	Data Collection	Data Collection for Economic Studies
	Q2	Apr - Jun	Reference Case Development	Reference Case Development
	Q3	Jul - Sep	Technical Studies to determine System Adequacy	Economic Studies to Identify Congestion
	Q4	Oct - Dec	Draft Report on System Adequacy	Draft Reporting
Year 2 - 2011	Q5	Jan - Mar		Data Collection for Re-Study • Re-Study Requests • Economic Study Second Year Requests
	Q6	Apr - Jun	Draft Report Review	Draft Re-Study Review
	Q7	Jul - Sep	Final Report and Review	
	Q8	Oct - Dec	Final Transmission Plan approval	

Main Grid Transmission Planning Annual Reliability Assessment

Dave Hagen, Tom Tjoelker

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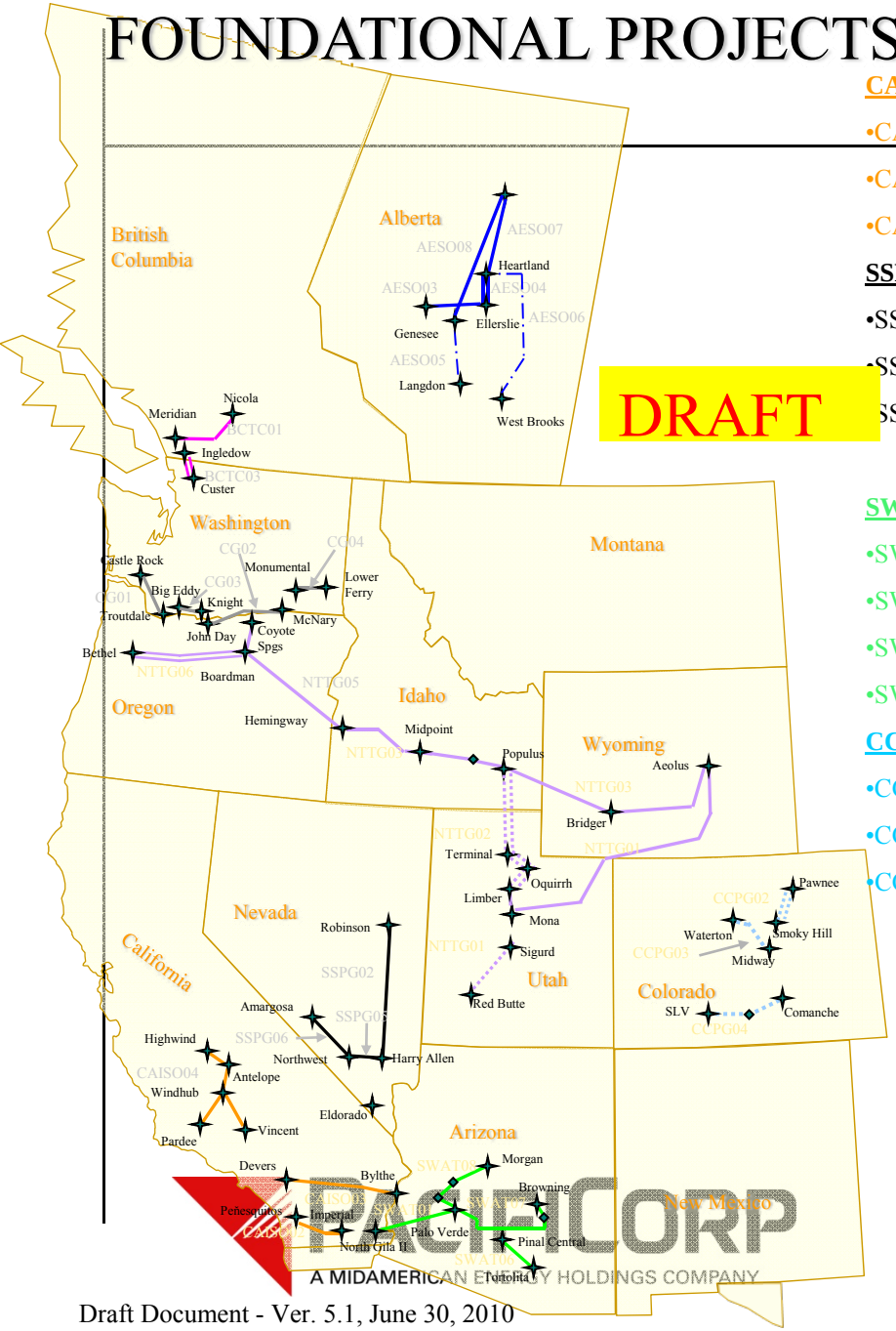
Main Grid Transmission Studies

- PacifiCorp Transmission System Planning
  - Conducts annual transmission reliability assessments
  - Studies are used to determine compliance with the NERC/WECC Transmission Reliability Standards. If a system reliability deficiency is observed a proposed transmission project to correct the deficiency is proposed.
    - Large Generator Interconnection Studies
    - Transmission Service Request Studies
    - Annual Load and Resource Studies
    - **Transmission Planning (TPL) Reliability Studies**
    - Energy Gateway Studies

FOUNDATIONAL PROJECTS BY 2020



DRAFT

CAISO

- CAISO02 Sunrise
- CAISO03 Bylthe-Devers
- CAISO04 Tehachapi Upgrade

SSPG

- SSPG02 SWIP South
- SSPG05 TCP Harry Allen - Northwest
- SSPG06 TCP Northwest – Amargosa

SWAT

- SWAT01 PV-NG#2
- SWAT06 Pinal Central – Tortolita
- SWAT07 Southeast Valley (SEV)
- SWAT08 PV - Morgan

CCPG

- CCPG02 Pawnee – Smoky Hill
- CCPG03 Waterton- Midway
- CCPG04 San Luis Valley

NTTG

- NTTG01 Gateway South Phase 1
- NTTG02 Gateway Central Phase 1
- NTTG03 Gateway West Phase 1
- NTTG05 Hemingway – Boardman
- NTTG06 Cascade Crossing

CG

- CG01 I-5 Corridor
- CG02 West McNary
- CG03 Big Eddy – Knight
- CG04 Little Goose Area Reinforcement

BCTC

- BCTC01 Nicola – Meridian
- BCTC03 BC-US Intertie

Alberta AESO

- AESO03 1202L Conversion
- AESO04 Heartland
- AESO05 West HVDC
- AESO06 East HVDC
- AESO07 Fort McMurray - East Line
- AESO08 Fort McMurray - West Line

(1) Map does not reflect 230 or 240 kV lines that are included in the Foundational Transmission Project List.
(2) Internal reinforcements projects not shown for clarity.
(3) Lines shown are for illustrative purposes only and may not reflect final line routing.

Local Planning

5 yr Studies

Mark Adams, Larry Frick

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Criteria

5-yrs studies – Local System Planning

- 5-year studies provide a plan for the development of the local area transmission. The plan can be used as a guide for developing construction forecasts, capital budgets and operation plans
- The study should identify the most practical and economical means for serving existing and forecasted loads while maintaining high quality transmission service to customers

Time-line

5-yrs studies – West

Study Area	State	Last Studied	Update
Roseburg	OR	Feb-06	Recently completed
Dalreed/Arlington/Sherman County	OR	Jul-06	85% complete
Portland	OR	Feb-06	85% complete
Klamath Falls	OR/CA	Jun-06	5% complete
Lakeview/Alturas	OR/CA	Jun-06	5% complete
Willamette Valley/Cottage Grove	OR	Oct-06	October 2010 start

Time-line

5-yrs studies – East

Study Area	State	Last Studied	Update
Park City/Midway	UT	Oct-08	
Wyoming (West)	WY	Dec-08	
Utah (Southwest)	UT	Dec 09	
Ogden	UT	Dec-08	
Salt Lake Valley	UT	Oct-08	
Goshen	ID	Dec-09	
Utah Valley	UT	Dec-09	
Tooele	UT	Nov-08	
Nebo	UT	Dec-09	
Honeyville/Malad	UT	Jul-06	2nd Q 2010 – Is complete
Powder River	WY	Jul-06	4th Q 2010 -80% complete
Pavant	UT	Oct-06	3rd Q 2010 – Is complete
Smithfield	ID	Dec-06	4th Q 2010 – 70% complete
Montpelier	ID	Oct-07	2nd Q 2010 – Is complete
Price	UT	Oct-07	Scheduled for 2011
Wyoming (Southern)	WY	Nov-07	Scheduled for 2011
Utah (Southeast)	UT	Nov-07	Scheduled for 2011
Grace	ID	Dec-07	Scheduled for 2011
Sigurd	UT	Dec-07	Scheduled for 2011
Vernal	UT	Jan-08	Scheduled for 2011
Big Horn	WY	Mar-08	
North Salt Lake	UT	Jun-08	

Q & A Session

Contact Information – Link to PacifiCorp OASIS: **http://www.oasis.pacificorp.com/oasis/ppw/main.htmlx**

For Attachment K related comments\questions, address your requests to: **TransmissionPlanningProposal@PacifiCorp.com**

Attachment K
Q4 Public Meeting

TRANSMISSION COORDINATION AND PLANNING

Late December, 2010

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Q & A

All