

Transmission Program – Network Open Season Projects

2008 NOS Projects

	<u>Proposed Energization</u>
▪ McNary-John Day 500 kV (70 miles)	Energized November 2011
▪ Big Eddy-Knight 500 kV (28 miles)	2013
▪ Central Ferry-Lower Monumental 500 kV (40 miles)	TBD
▪ I-5 Corridor Reinforcement Project (70 miles)	2016

2009 NOS No additional reinforcement required

2010 NOS

- 2008 NOS Projects
- Colstrip Upgrade (CUP West)
- Northern Intertie Reinforcement



Transmission Program - Network Open Season Projects

McNary-John Day

Project Description: (McNary-John Day - West of McNary Reinforcement Group 1

(Under Construction) 79 miles new 500kV transmission line, McNary and John Day Sub Bay Additions

Schedule

2009 Feb. - Project approved and launched

2009 June - Construction started by Wilson Construction Co., Phase 1 & 2; June 2010 Phase 3

2012 Feb. - Energization

Budget

Total Project cost estimate: \$216 million (revised from \$343M)

Actual costs thru 10/31/11: \$182.5 million

Forecast remaining \$9.0 million

Activities

Completed to date

McNary-John Day Line was energized November 1st, 2011

McNary-Ross upgrade to 70 degree C November 2011

Control and Communications completed November 2011

Jones Canyon Capacitor Yard completed April 2011

John Day-Big Eddy upgrade to 100 degree C November 2010

McNary Transformer RAS completed October 2010

Next Quarter

Complete minor indoor SCADA & DFR work at John Day

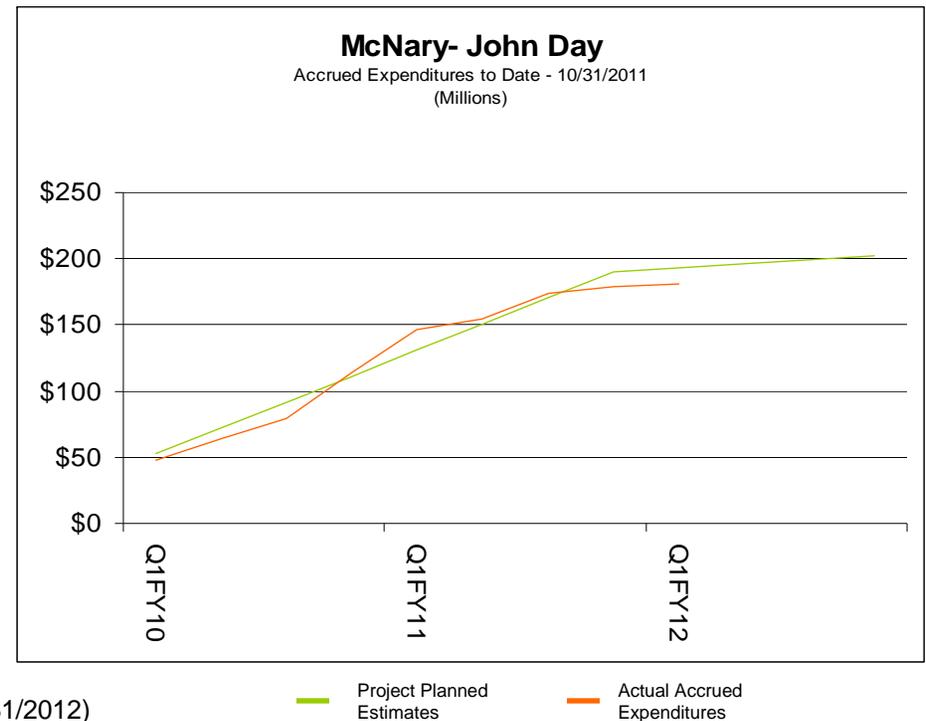
(schedule completion 12/31/2011)

Complete minor cable installation work at McNary & John Day (1/31/2012)

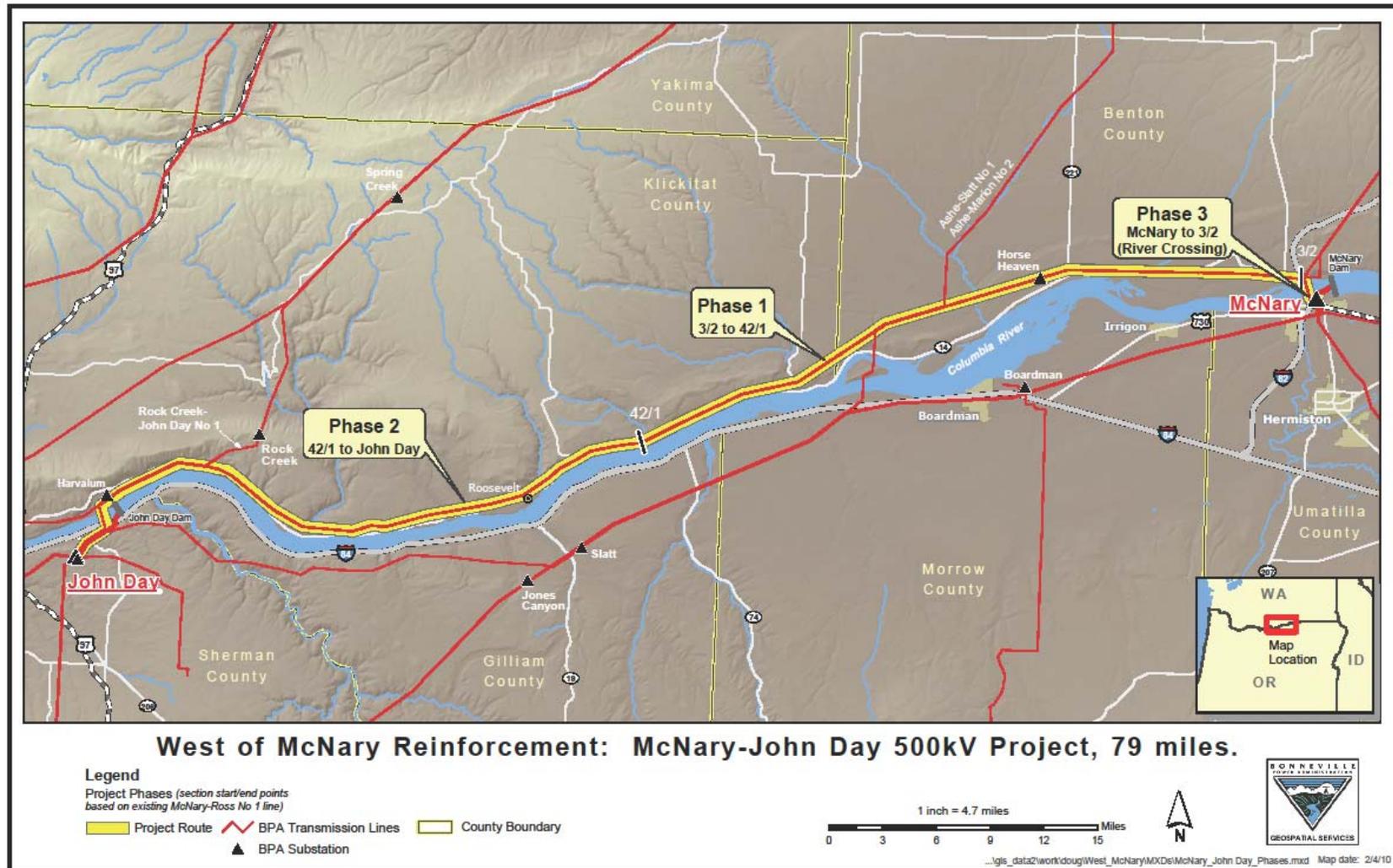
Complete installation of one remaining breaker at McNary (12/31/2011)

Jones Canyon VAR Controller (complete 1/31/2012)

Big Eddy-Ostrander upgrade to 100 degree C (Orchards rights buy back on going)



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Big Eddy-Knight - West of McNary Reinforcement Group 2:

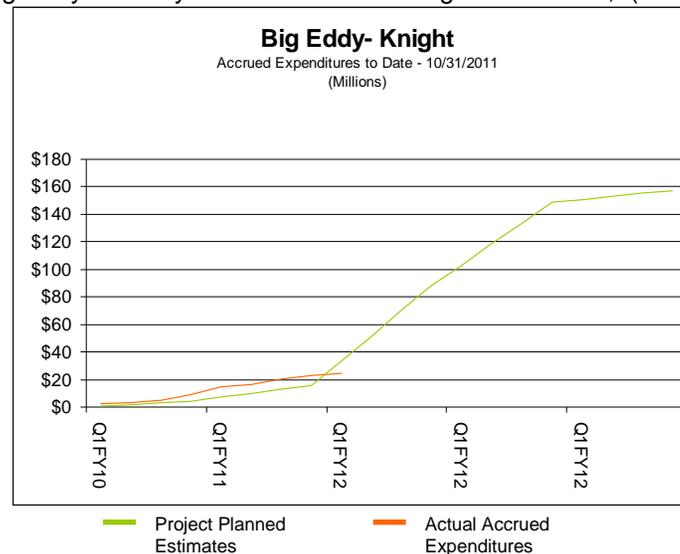
Project Description: 28 miles new 500kV Transmission line, Big Eddy Sub bay addition and new Knight Substation; (Phase 1) Knight-Wautoma: Fiber & new 500kV reactor (Phase II)

Schedule

2009 Feb. Project approved and launched
2011 Sept. (Record of Decision) ROD
2013 Feb. Energization of new
Transmission line

Budget

Total Project costs (Direct): \$180 million
Actual costs to date (Direct as of 10/31/11): \$19.3 million



Activities

Completed to date

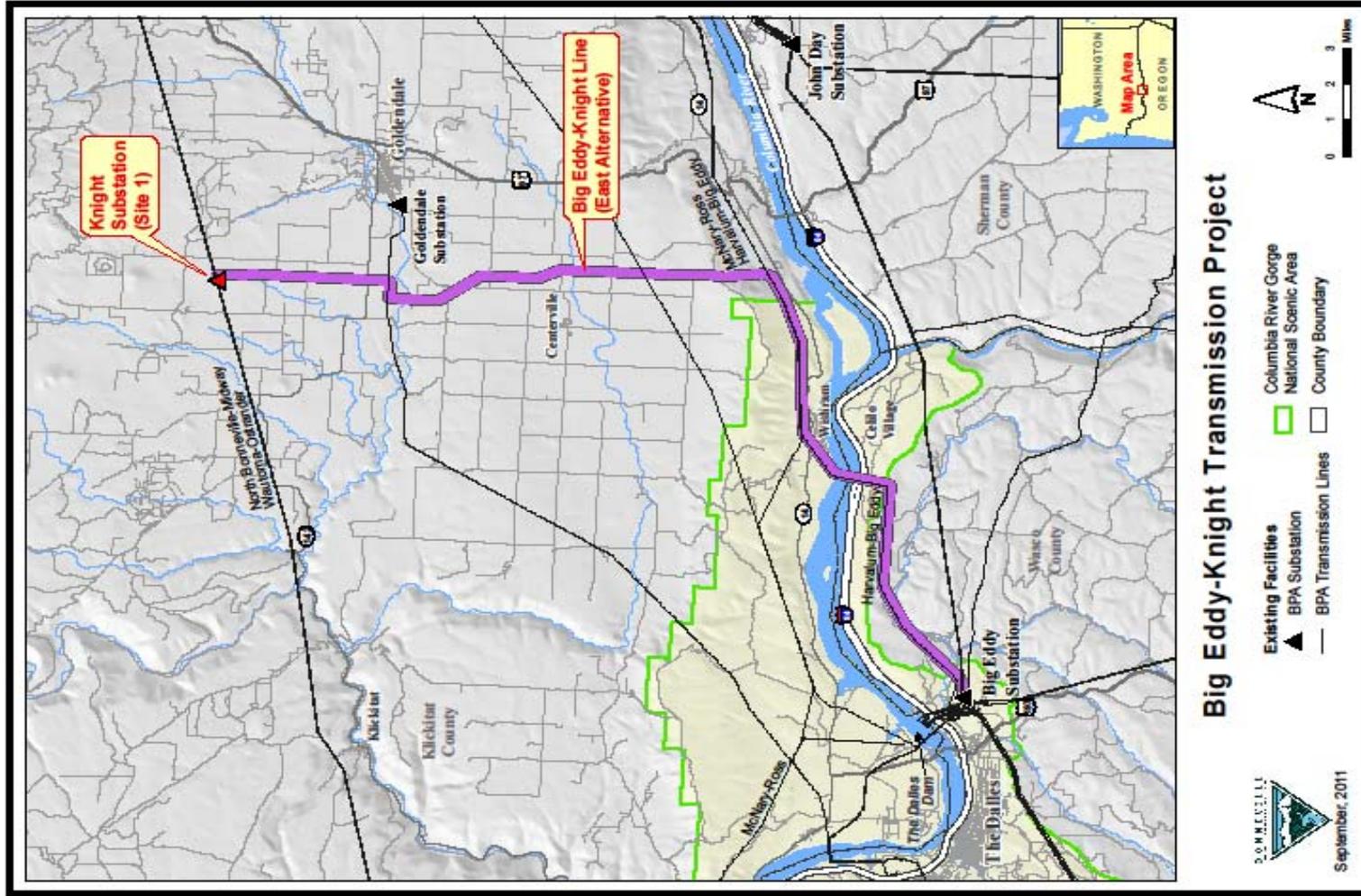
Executed Master Lease Agreement for single and double circuit of the transmission line.
Reached a mitigation settlement with the Friends of The Gorge.
Shoofly activity on the Midway-North Bonneville and Wautoma-Ostrander transmission line completed.
Land parcel appraisal 95% complete.
Appraisal offers to land owners continues.
Us Forest Service consistency determination to occur November 15th.
Control house expansion at Big Eddy 500 kV substation initiated.
Tendered easement agreement with DNR for substation access road.
Construction of the substation access road has commenced.

Next Quarter

Continue to secure land parcels.
Secure river crossing permit with Army Corp. of Engineers.
Complete appraisal offers to all pending landowners.
Commence tower erection and construction in the Scenic Gorge Area.
Conduct stake holder's meeting with Operations.
Execute Master Lease Agreement for the remaining portion of the project applicable i.e., Knight-Wautoma fiber and Wautoma reactor installation.



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2008 NOS Projects - Monthly Status Report – November 2011 (Cont.)

Central Ferry-Lower Monumental

Project Description: 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

Schedule

- 2009 Feb. - Project approved and launched
- 2011 March - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2013 July – Original Energization date

Budget

- Total Project costs (Direct): \$90 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (Direct as of 10/31/11) \$7.8 million

Activities:

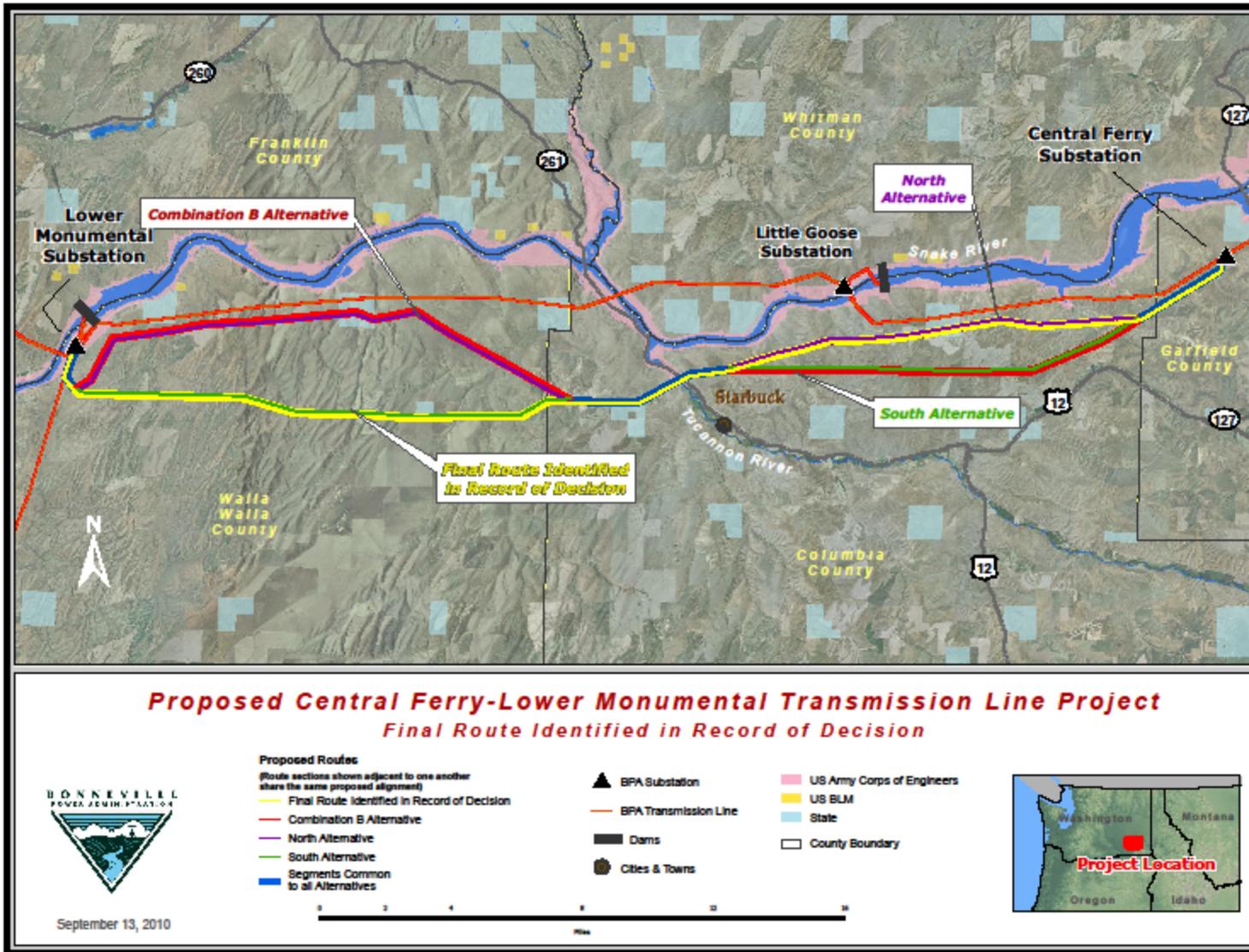
Last 30 days

- Right-of-way negotiations
- Worked on detailed design at Lower Monumental, Central Ferry, McNary, Little Goose and Sacajawea.
- Submitted Real Estate application to Corp. of Engineers.

Next 30 days

- Confirming customer needs for interconnection prior to proceeding with project.
- Construction award decision will be made following customer interaction
- Complete 50% design milestone for substation work.





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I-5 Corridor Reinforcement

Project Description: (In NEPA Review) 70 miles new 500kV transmission line and 2 new substations

Schedule

2009 Feb.	Project approved and launched
2012 Dec.	Final EIS (New Date)
2013 Jan.	ROD (New Date)
2015 Oct.	Energization

Budget

Total Project costs (Direct): \$342 million
Actual costs to date (Direct as of 10/31/11): \$17 million

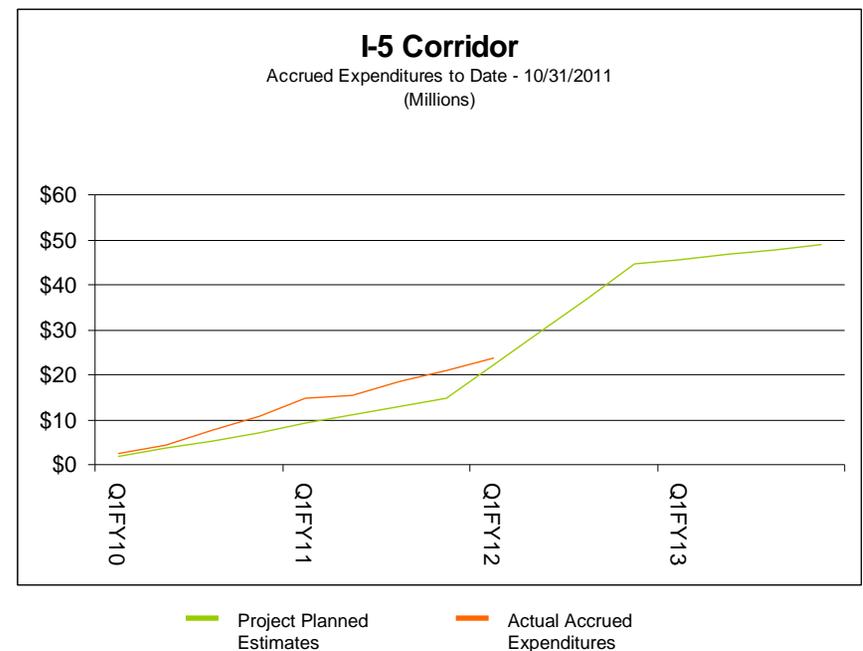
Activities

Completed to Date

- Completed preliminary estimates for 4 alternatives.
- Worked with Port of Portland and local utilities to develop plan for new Sundial Substation and relocation of lines at Troutdale.
- Completed draft of line route data sheet comparing 4 alternatives with over 80 criteria.
- Project Team continues to pursue a preferred route.
- Project Team created a preliminary draft to EIS for internal review.

Next Quarter

- Review draft EIS
- Pursue a preferred route
- Review draft phase 2 non-wires report.
- Convene non-wires round table to discuss options.
- Conduct control surveys on all routes and using Lidar data.
- Maintain good working relationship with large land holders.
- Respond to requests for information from public.



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2010 NOS - Colstrip Upgrade (CUP West)

- Goal is to maximize transfers from Montana to Northwest utilizing existing transmission lines
- The plan includes projects on both the Northwestern Energy and BPA transmission systems
- Increases capacity by approximately 550 MW
- Energization date for Cup West plan is not firm at this time

BPA projects include:

- New series capacitor station between Garrison and Taft Substations
- New series capacitors at Hatwai and Bell Substations
- Upgrade existing series capacitors Garrison, Bell and Dworshak
- Shunt capacitors at Hot Springs, Hatwai and Bell Substations



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2010 NOS - Northern Intertie Upgrades (North to South)

- Monroe-Snohomish 230 kV No.1 & 2 Re-sag
- Olympia-South Tacoma 230 kV Reconductor

