

Fiscal Year 2013 Budget and Long Range Plan Columbia Generating Station

Brad Sawatzke VP, Nuclear Generation/CNO March 20, 2012

Introduction

- Our goal is to provide safe, reliable, cost effective power to the region.
- The FY 2013 budget for O&M and capital is within the constraints of the long range plan.
- Energy Northwest headcount is down by 16 in FY 2013, with additional reductions in the long range plan.
- Capital investment is a priority.
- × Fukushima estimates are preliminary.





Fiscal Year 2013 Budget Columbia Generating Station

Mark Reed Asset Manager/Controller March 20, 2012

Overview

- The FY 2013 budget meets the O&M and Capital constraints of the FY 2012 long range plan.
- The Amortized Fuel Costs exceed the FY 2012 long range plan because of the extended R20 outage.
- Total budget is \$368.3 million
- Industry Cost of Power is \$43.47/MWh



Objectives

- Continue to Invest in Long-term Plant Reliability While Continuing to Ensure Affordable, Reliable Power for the Region
- Improved Long Range Plan that Meets the Needs of the Plant and the Region
- Continue to Improve Cost Predictability
- Continue to Improve the Efficiency of Work Execution
- Continue to Improve the Performance and Accountability of Plant Management



Key Assumptions

- Cost of Power is Based on Net Generation of 8,473 GWh
- Fuel Costs are Based on Fiscal Year 2013 10-Year Plan
- ▼ Issued bonds to finance capital
- Excludes unknown Nuclear Regulatory Commission (NRC) mandates
- ➤ No Forced Outage Budget
- Includes preliminary estimates for Fukushima impacts



Escalation

Weighted average escalation is 3.7%
Regulatory fees are up an average of 10.6%
Contractor rates are up an average of 3.5%



Risk Reserve

- \$1.0 million O&M risk reserve is 0.4% of the total O&M budget
 - No additional budget for forced outage
 - No additional budget for unknown regulatory mandates
- \$4.4 million capital risk reserve is 8.8% of the total capital budget
- Total risk reserve is 1.7% of the total O&M and capital budget



Budget Versus Prior Year Long Range Plan (LRP) (Dollars in Thousands)

<u>Description</u>	FY 2013 Budget	FY 2012 LRP for FY 2013		Variance
Baseline	\$ 126,308	\$ 124,559	\$	1,749
O&M A&G	73,479	73,622		(143)
Incremental Outage	25,028	23,377		1,651
Expense Projects	44,613	46,652		(2,039)
Risk Reserve	 1,000	2,218	_	<u>(1,218</u>)
Operations & Maintenance Total	270,428	270,428		-
Capital Projects	40,520	41,326		(806)
Capital A&G	5,507	4,800		707
Risk Reserve	 4,414	 4,315		99
Capital Total	50,441	50,441		-
Nuclear Fuel Related Costs	47,455	 43,297		4,158
Fuel Total	 47,455	 43,297		4,158
Total	\$ 368,324	\$ 364,166	\$	4,158
Net Generation (GWh)	8,473	 8,473		-
Cost of Power (\$/MWh)	\$ 43.47	\$ 42.98	\$	0.49



Fiscal Year 2013 Risks

- Emergent Equipment Reliability Issues
- Refueling Outage Duration
- × Regulatory Fees
- ▼ Forced Outage
- Benefits Increase
- **×** Unknown Regulatory Mandates



Columbia FY 2013 Budget Comparison to Escalated FY 2011 Actual

(Dollars in Thousands)

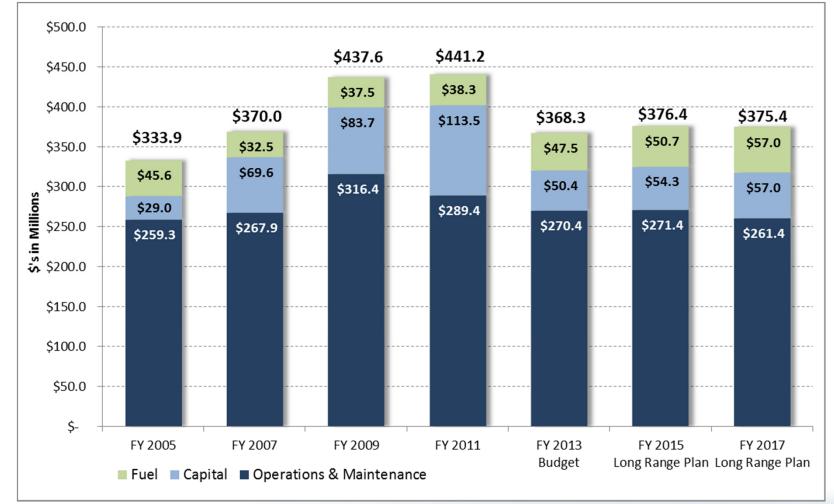
	FY 2013	FY 2013 FY 2011					
Budget Line Item	Budget	Actual*	Variance				
Controllable Costs							
Energy NW Labor	\$78,776	\$79,168	(\$392)				
Baseline Non-Labor	54,609	58,380	(3,771)				
Incremental Outage Non-Labor	25,028	36,661	(11,633)				
Projects - Expense Non-Labor	41,641	59,514	(17,873)				
Projects - Capital Non-Labor**	36,415	49,843	(13,428)				
Corporate Allocations	78,986	71,210	7,776				
Risk Reserve	5,414	0	5,414				
Subtotal Controllable	\$320,869	\$354,776	(\$33,907)				
Fuel Related Costs							
Fuel Amortization	\$39,532	\$30,979	\$8,553				
Spent Fuel Fee	7,923	7,333	590				
Subtotal Fuel Related Costs	\$47,455	\$38,312	\$9,143				
Total CGS Costs	\$368,324	\$393,088	(\$24,764)				
Net Generation (GWh)	8,473	7,247	1,226				
Cost of Power (\$/MWh)	\$43.47	\$54.24	(\$10.77)				

*Escalated to FY 2013 \$'s and excludes reactor building siding claim payment **Excludes Condenser project non-labor



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Columbia Outage Year Costs



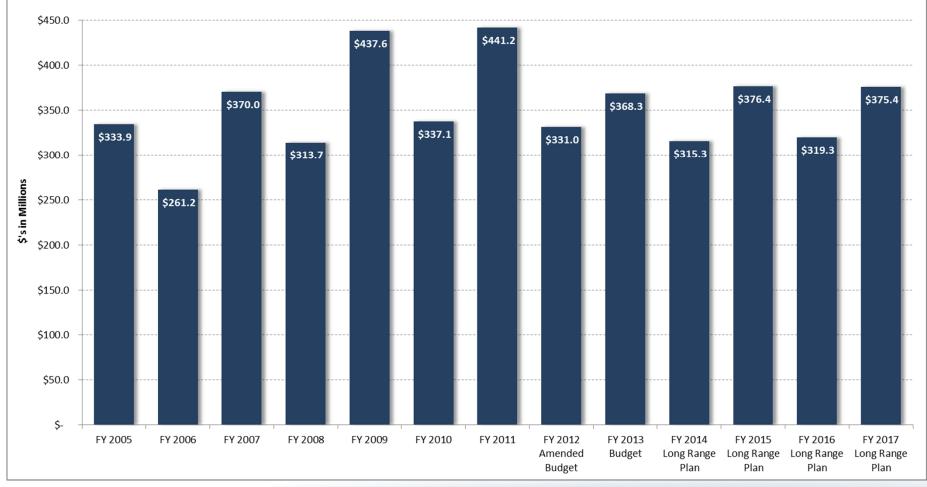




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Columbia Total Costs

(Operations & Maintenance, Capital, and Fuel)







Columbia Budgeted Positions

(Full Time Equivalents*)

Organization	FY 2013 Budget	FY 2012 Budget	Full Time Equivalent Change
CEO	18	18	-
VP Employee Development & Corporate Services	184	186	(2)
VP Nuclear Generation	890	902	(12)
VP Energy Business Services**	24	24	-
VP Chief Financial Officer/Chief Risk Officer	32	34	(2)
Total CGS	1,148	1,164	(16)

* Includes allocation of Corporate Full Time Equivalent Positions (94%)

* Includes project positions

* Excludes temporary positions

**Includes Environmental & Cal Lab support (19 Full Time Equivalent Positions)



Baseline Non-Labor

FY 2013 Non-Labor	\$54,609
FY 2012 Non-Labor (escalated)	\$55,943
Variance	(\$1,334)
Major Changes:	
Nuclear Regulatory Commission Fees	\$830
Chemicals/Gases	210
Software Maintenance Fees	113
Equipment	107
Radwaste Disposal	(131)
Temporary Labor	(167)
Overtime	(382)
Travel/Training	(457)
Materials	(1,143)
All Other	(314)



Incremental Outage

(Dollars in Thousands)

Site Support Contractor	\$7,600
Energy Northwest Overtime	5,490
Contract Support	4,776
Energy Northwest Temporary Labor	3,729
Materials & Supplies	2,926
Equipment & Leases	507
	\$25,028



Operations & Maintenance Projects Non-Labor Over \$850 Thousand

(Dollars in Thousands)

Plant Valve Project	\$9,441
Vessel Services	5,809
In-Service Inspection Programs	4,814
Main Turbine Inspection	4,137
Main Generator Maintenance	1,641
Flow Accelerated Corrosion Inspection	1,513
Annual Transformer Yard Maintenance	1,330
Outage Temporary Power	1,112
Cooling Tower & Circulation Water Preventative Maintenance	891



Capital Projects Non-Labor Over \$1.0 Million

(Dollars in Thousands)

Fukushima Project*	\$4,477
Transformer M2 Replacement	3,608
Radio Obsolescence	3,394
Marathon Control Rod Blades	3,240
Control Rod Drive Repair / Refurbishment	2,862
Storm Water Runoff Pond	1,930
Keep Fill Pump Replacement	1,460
Local Power Range Monitoring Replacement	1,212
Plant Telephone Obsolescence	1,058
Main Transformer Online Gas	1,003

*Preliminary estimate for FY 2013 Fukushima impacts





Long Range Plan Columbia Generating Station

Jim Gaston Business Planning Manager March 20, 2012

Long Range Plan - Objective

The CGS Long Range Plan (LRP) will identify and levelize resource requirements to maintain Columbia safety and reliability over a ten year planning horizon.



Long Range Plan - Methodology

- Updated Annually Rolling 10-Year Forecast
- Potential Needs are Evaluated:
 - Action Request Evaluation (AR-EVAL), Technical Evaluation, Priority Ranking Matrix
 - Design Sub-Committee (DSC) screens for need, technical justification, rank, and timing. Approves, Cancels, or Returns for additional information
 - DSC assigns to Project Owner; Project Owner develops Project Proposal Form (PPF); Rough Order of Magnitude (ROM) estimate developed
 - Project Review Committee (PRC), reviews PPF presentations; approves for entry to LRP; defines timing; may cancel
- PRC Approved Projects are entered into the LRP
- Projects are "levelized" to available budgets by rank and or Management Discretion
- LRP process is proceduralized (SWP-PJM-01, 02)



Long Range Plan - Assumptions

- Reduction of 70 positions in FY 2014, 20 positions in FY 2015, and 16 positions in FY 2017
- Baseline non-labor based on FY 2013 costs
- Approved long range plans from the Project Review Committee, Information Technology Project Review Committee, and Facilities Project Review Committee
- Includes estimated Fukushima impacts
- Excludes extraordinary facility projects
- ▲ 4.0% average escalation



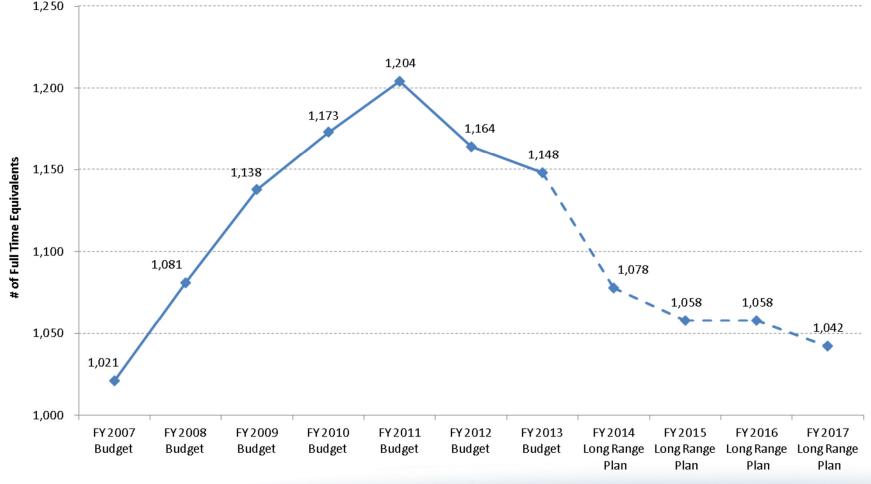
Long Range Plan - Escalation

- Operations and Maintenance / Capital average escalation is 4.0%
 - Regulatory fees 5.5%
 - Flex benefits in corporate allocations 9.0%
 - Software maintenance fees 7.0%
 - Utilities 5.5%
 - All other categories 3.5%



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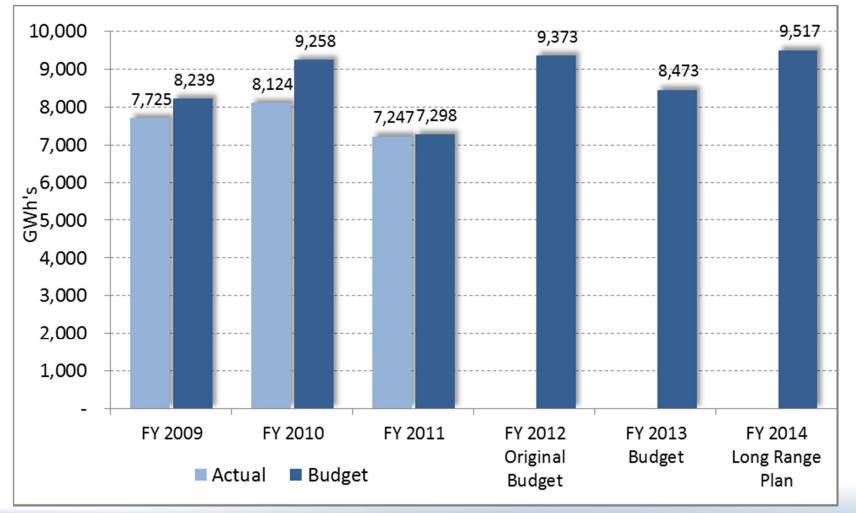
Columbia Full Time Equivalent Staffing



* Includes allocation of Corporate Full Time Equivalent Positions.



Columbia Generation





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Columbia Long Range Plan

Item Description		FY13		FY14		FY15		FY16		FY17	F	FY18		FY19		FY20		FY21		FY22		FY23	
	BF	PA Rate Pe	riod	BP/	A Ra	Rate Period BPA			Rat	ate Period BPA				e Period		BPA	Rate Period			BPA R		Rate Period	
Direct and Indirect O&M Costs																							
Baseline Costs	\$	126,308	\$	124,333	\$	120,138	\$	122,926	\$	119,588	\$1	21,786	\$	119,988	\$	123,186	\$	119,988	\$	122,786	\$ 1	119,988	
Outage Costs (Incremental)		25,028		150		29,750		150		25,200		150		25,200		150		25,200		150		25,200	
Admin / General (A&G)		73,479		69,903		70,349		69,444		69,560		68,700		69,634		69,070		69,819		68,752		69,317	
O&M Projects		44,024		10,965		46,889		13,052		42,993		11,148		44,054		13,514		42,788		11,082		46,273	
Facilities O&M Projects		589		780		890		890		890		890		890		890		890		890		890	
O&M Risk Reserve		1,000		1,532		3,336		1,532		3,186		1,294		2,694		1,242		2,694		1,123		2,694	
Subtotal Direct & Indirect O&M Costs	\$	270,428	\$	207,663	\$	271,352	\$	207,994	\$	261,417	\$	203,968	\$	262,460	\$	208,052	\$	261,379	\$	204,783	\$	264,362	
Escalation on Direct & Indirect		-		8,447		21,785		26,491		43,952		45,476		69,213		67,908		96,337		89,041		127,465	
Subtotal Direct & Indirect O&M Costs	\$	270,428	\$	216,110	\$	293,137	\$	234,485	\$	305,369	\$	249,444	\$	331,673	\$	275,960	\$	357,716	\$	293,824	\$	391,827	
Capital Costs																							
PRC Capital Projects	\$	29,818	\$		\$		\$	25,142	\$	34,690	\$	25,980	\$		\$	25,746	\$		\$	21,037	\$	42,526	
Moveable Capital & Downtown Capital Projects		1,644		1,507		1,507		1,507		1,507		1,507		1,507		1,507		1,507		1,507		1,507	
Facilities Capital Projects		537		500		530		535		565		565		565		565		565		565		565	
Information Technology Capital Projects		3,001		7,772		6,230		5,789		5,706		9,141		6,115		6,168		5,808		7,555		6,465	
Admin / General (A&G)		5,507		3,954		3,846		3,514		4,805		3,214		4,147		3,005		3,724		3,757		3,916	
Capital Risk Reserve		4,414		2,412		3,508		2,052		3,641		1,989		4,002		2,142		3,848		2,142		3,848	
Fukushima Impacts		5,520		11,600		9,300		6,300		6,100		-		-		-		-		-		-	
Subtotal Capital Costs	\$	50,441	\$	49,967	\$	54,268	\$	44,839	\$	57,014	\$	42,396	\$	57,105	\$	39,133	\$	43,723	\$	36,563	\$	58,827	
Escalation on Capital Costs		-		1,775		3,917		4,945		8,567		8,069		13,311		10,821		14,145		13,649		24,627	
Subtotal Capital Costs	\$	50,441	\$	51,742	\$	58,185	\$	49,784	\$	65,582	\$	50,465	\$	70,416	\$	49,954	\$	57,868	\$	50,212	\$	83,454	
Fuel Related Costs																							
Nuclear Fuel Amortization	\$	39,532		50,732		46,252		64,739		57,477		63,684		56,560		69,672		61,856		74,419		67,090	
Spent Fuel Fee		7,923		8,847		8,047		8,956		7,901		8,932		7,899		8,918		7,867		8,894		7,989	
Subtotal Fuel Related Costs	\$	47,455	\$	59,579	\$	54,299	\$	73,695	\$	65,378	\$	72,616	\$	64,459	\$	78,590	\$	69,723	\$	83,313	\$	75,079	
Total Upgeoglated Budget		368,324	\$	247 200	\$	379,919	•	326,528	\$	383,809	\$	318,980	\$	384,024	\$	325,775	\$	374,825	\$	224 650	\$	398,268	
Total Unescalated Budget Total Escalation	2	308,324	3	317,209 10.222	3	25,702	\$	326,528	3	52,519	3	53,545	3	384,024 82,524	2	78,729	3	374,825 110,482	3	324,659 102,690	3	398,268 152,092	
	\$	368,324		327,431	*		\$		\$	436,329	•	53,545 372,525	•	82,524 466,548	*	404,504	•	485,307	\$	427,349	\$	152,092	
Total Costs - Industry basis	>	308,324	\$	321,431	>	400,021	3	357,904	3	430,329	3	512,525	>	400,048	3	404,504	\$	485,307	2	421,349	2	550,360	
Total Net Generation (Gwh)		8,473		9,517		8,291		9,517		8,473		9,517		8,473		9,517		8,473		9,517		8,473	
Outage Days		40		-		47		-		40		-		40		-		40		-		40	
Cost of Power (Cents per kWh, constant FY13\$)		4.347		3.333		4.582		3.431		4.530		3.352		4.532		3.423		4.424		3.411		4.700	
Cost of Power (Cents per kWh, escalated)		4.347		3.440		4.892		3.761		5.150		3.914		5.506		4.250		5.728		4.490		6.495	



Long Range Plan Challenges

- × Fukushima
- **×** Turbine Replacement
- Plant Aging / Obsolescence
- Increased investment in equipment reliability projects
- License Extension Implementation
- Regulatory Oversight of Columbia
- Benefits expected to escalate dramatically
- A managed attrition plan will be required to meet commitments
- Fuel Costs



Detailed Long Range Plan

× See handout





Bonneville Rate Case Impacts Columbia Generating Station

Mark Reed Asset Manager/Controller March 20, 2012

Columbia Impact on Bonneville Rates

- The budget discussion on all previous slides has been about Columbia <u>cost</u>. However, Bonneville's rate case is based on <u>cash</u> requirements.
- The key differences between Columbia cost and cash requirements is 1) fuel related expenditures vs. amortized cost of fuel, and 2) all capital costs are financed and are included in Bonneville's total debt service numbers.



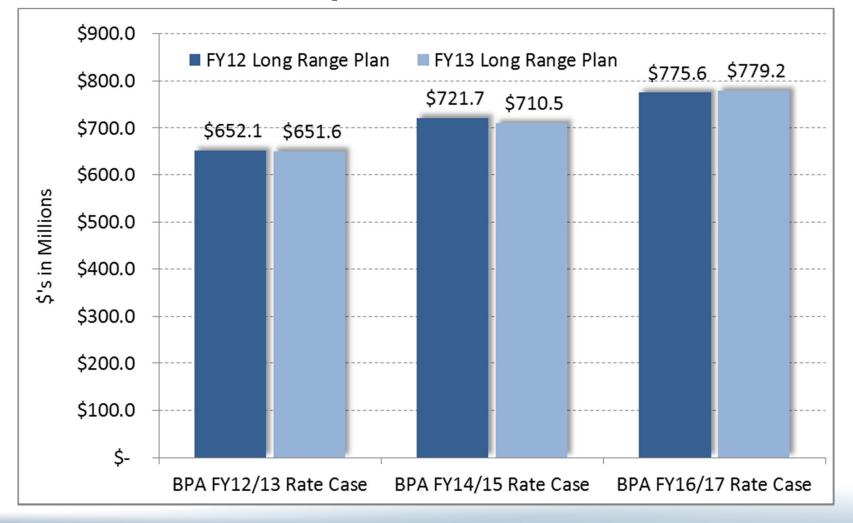
Overview

- Columbia's impact to Bonneville's next rate case period (BPA FY 2014 and FY 2015) is estimated to be \$11 million less than was anticipated last year.
- The driver for the reduction is the cost of nuclear fuel procurement.
- Decommissioning costs will be reduced (\$20 million in BPA FY 2014-FY 2015 & \$40 million in BPA FY 2016-FY 2017) after license extension.



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Columbia Impact on Rate Cases





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Questions?

