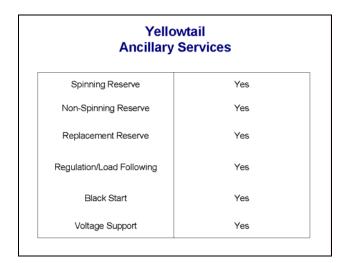
# Yellowtail Powerplant Pick-Sloan Missouri Basin Program

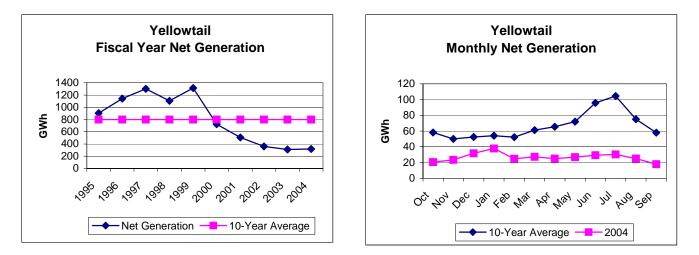
## **Ancillary Services**

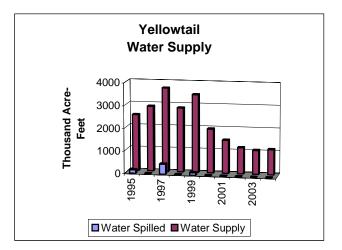


## Generators

Yellowtail Generators Existing Number and Capacity								
Unit#	Jnit # Original Capacity Capacity Increase (kW) (kW)		Present Capacity (KW)					
1	62,500	0	62,500					
2	62,500	0	62,500					
3	62,500	0	62,500					
4	62,500	0	62,500					
4 Units	250,000	0	250,000					

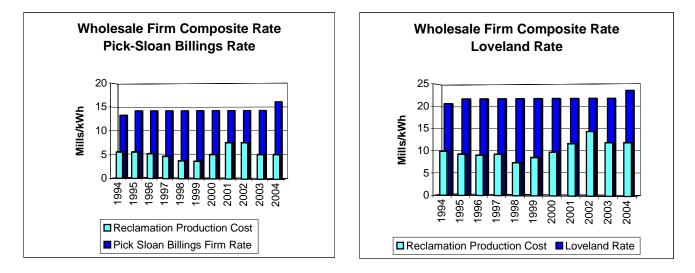
#### Generation





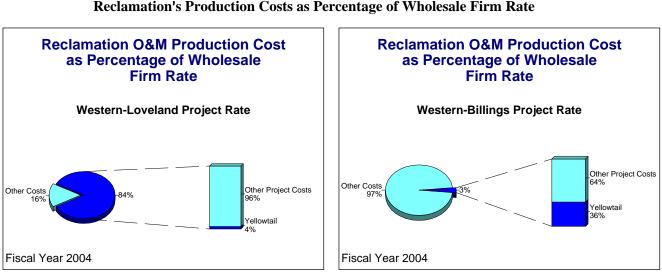
Drought conditions encountered for the fifth consecutive year.

### **Prime Laboratory Benchmarks**



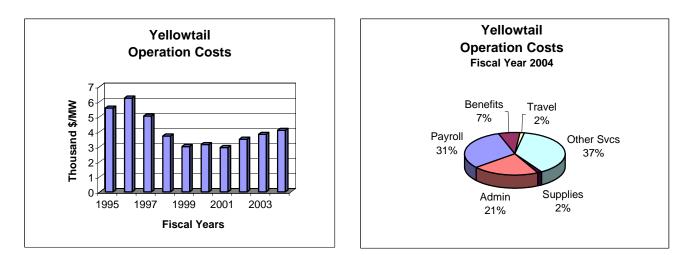
#### Benchmark 1 Wholesale Firm Rate

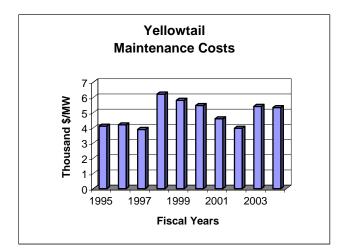
Yellowtail Units 1 and 2 are part of the Pick-Sloan Billings Rate and Yellowtail Units 3 and 4 are part of the Pick-Sloan Loveland Rate.

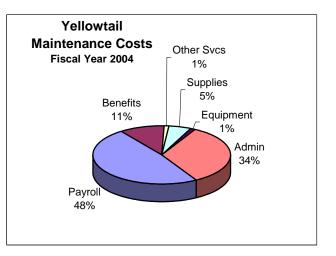


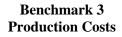
Benchmark 2 Reclamation's Production Costs as Percentage of Wholesale Firm Rate

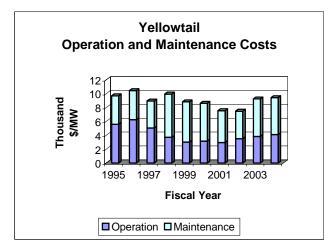
#### Benchmark 3 Production Costs

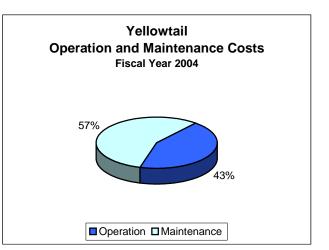


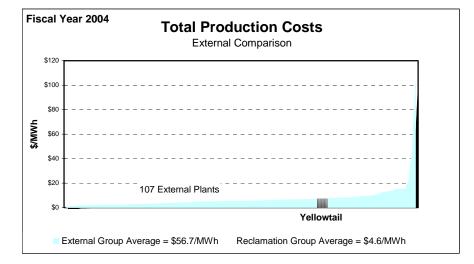


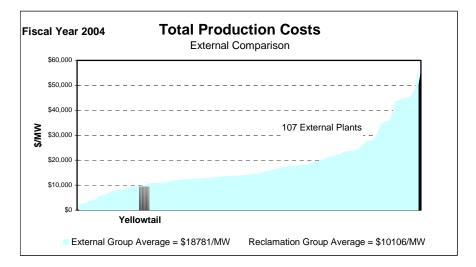






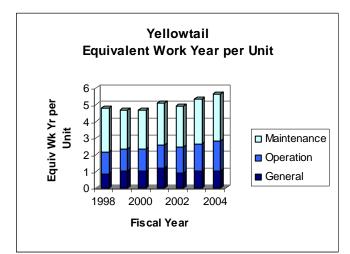


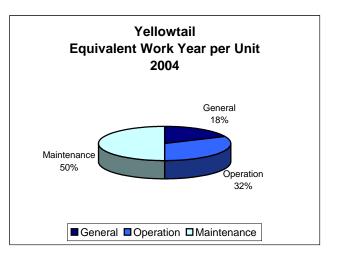


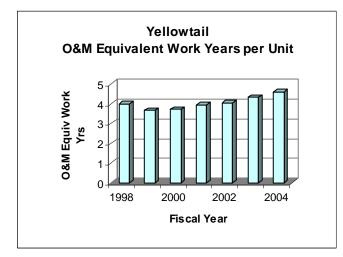


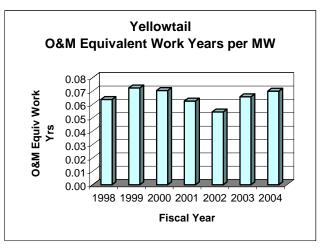
Yellowtail 2004 Equivalent Work Year Levels									
	Equiv Work Year Charged to Powerplant	Leave Additive	Denver and Washington Equiv Work Year Additive	Total Equiv Work Year Allocated to Powerplant	Total Equiv Work Year per Generating Unit	Total Equiv Work Year per Megawatt			
General	3.66	0.42	0.07	4.15	1.04	0.02			
Operation	6.36	0.73	0.00	7.09	1.77	0.03			
Maintenance	9.30	1.07	0.00	10.38	2.81	0.04			
Total Staffing	19.32	2.23	0.07	21.61	5.62	0.09			

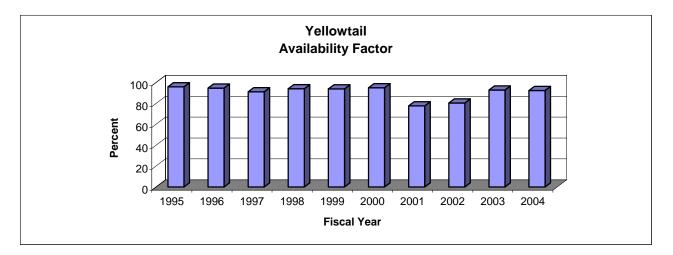
#### Benchmark 4 Workforce Deployment







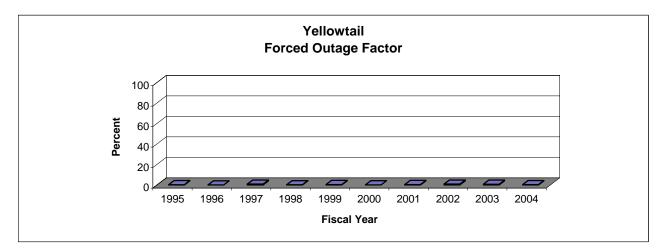


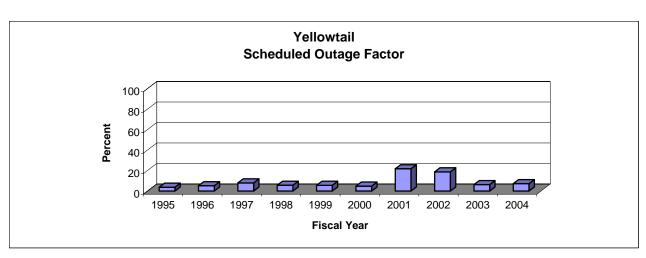


Benchmark 5 Plant Availability Factor

FY-2001 and FY-2002 – Extended outages occurred for replacing of the turbine runners on Units 3 and 4, and for replacing the governors and excitation systems on Units 1, 2, 3, and 4.

Benchmark 6 Plant Forced Outage Factor

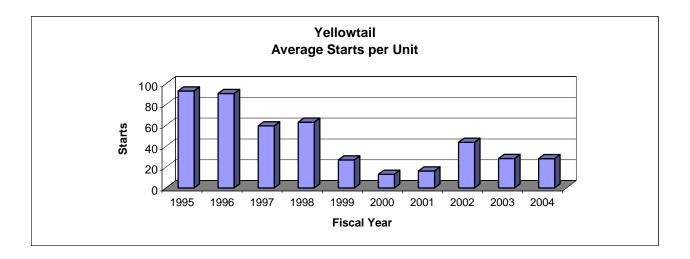




Benchmark 7 Plant Scheduled Outage Factor

FY-2001 and FY-2002 – Extended outages occurred for replacing the turbine runners on Units 3 and 4, and for replacing the governors and excitation systems on Units 1, 2, 3, and 4.





Benchmark Data Comparison								
Fiscal Year 2004	Yellowtail Powerplant	Reclamation Average 100-500 MW Group	Total Reclamation Average	Industry Average	Best Performers			
Wholesale Firm Rate (Mills/kWh)	U 1&2 21.7 <mark>?</mark> U 3&4 14.2 <mark>?</mark>	Not Applicable	*21.06	Not Applicable	Not Applicable			
Production Costs as Percentage of Wholesale Firm Rate	U 1&2 3.4? U 3&4 0.9?	Not Applicable	13.5 <mark>?</mark> %	Not Applicable	Not Applicable			
O&M Costs (\$/MWh)	7.37	3.59	2.77	56.68	1.23			
O&M Costs (\$/MW)	9,424.67	8,960.28	7,316.97	18,781.34	2,951.22			
O&M Equivalent Work Year (Staffing per MW)	0.07	0.05	0.04	Not Available	0.00			
Availability Factor (%)	92.44	91.0 <mark>?</mark>	86.9 <mark>?</mark>	**89.2 <mark>?</mark>	99.97			
Forced Outage Factor (%)	0.33	0.6 <mark>?</mark>	0.7 <mark>?</mark>	**1.9 <mark>?</mark>	0.00			
Scheduled Outage Factor (%)	7.23	8.4 <mark>?</mark>	12.4 <mark>?</mark>	**8.9 <mark>?</mark>	0.02			

### \*Weighted by Net Generation \*\*2003 NERC Average

The Bighorn River Basin experienced its fifth consecutive year of drought conditions in FY-2004, which resulted in below average generation.

Yellowtail Units 1 and 2 are part of the Pick-Sloan Billings Rate and Yellowtail Units 3 and 4 are part of the Pick-Sloan Loveland Rate.