

Grand Coulee Powerplant Columbia Basin Project

Ancillary Services

Grand Coulee Ancillary Services	
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	Yes
Black Start	Yes
Voltage Support	Yes

Grand Coulee Powerplant
> 500 MW

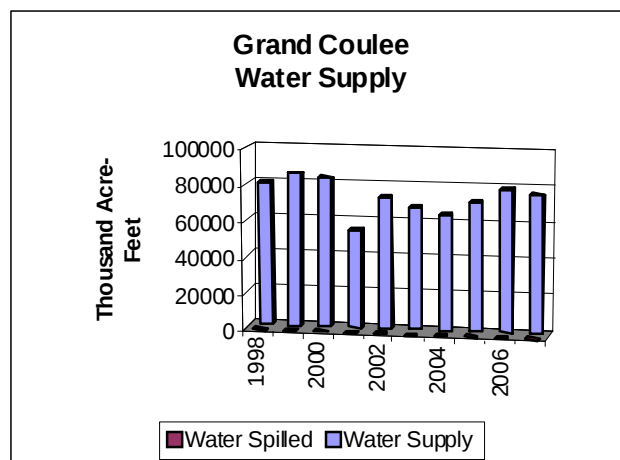
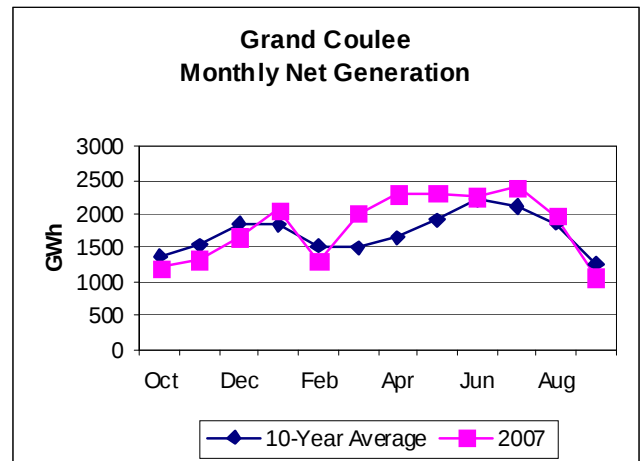
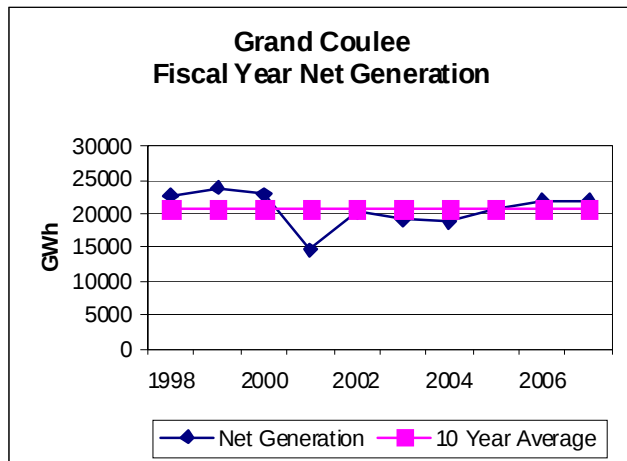
Grand Coulee Generators			
Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
01	108,000	17,000	125,000
02	108,000	17,000	125,000
03	108,000	17,000	125,000
04	108,000	17,000	125,000
05	108,000	17,000	125,000
06	108,000	17,000	125,000
07	108,000	17,000	125,000
08	108,000	17,000	125,000
09	108,000	17,000	125,000
10	108,000	17,000	125,000
11	108,000	17,000	125,000
12	108,000	17,000	125,000
13	108,000	17,000	125,000
14	108,000	17,000	125,000
15	108,000	17,000	125,000
16	108,000	17,000	125,000
17	108,000	17,000	125,000
18	108,000	17,000	125,000
19	600,000	-	600,000
20	600,000	-	600,000
21	600,000	-	600,000
22	700,000	105,000	805,000
23	700,000	105,000	805,000
24	700,000	105,000	805,000
LS1	10,000	-	10,000
LS2	10,000	-	10,000
LS3	10,000	-	10,000
27 units	5,874,000	621,000	6,495,000

G-19, G-20, G-21 have an operating capability of 690 MW.

Grand Coulee Powerplant
> 500 MW

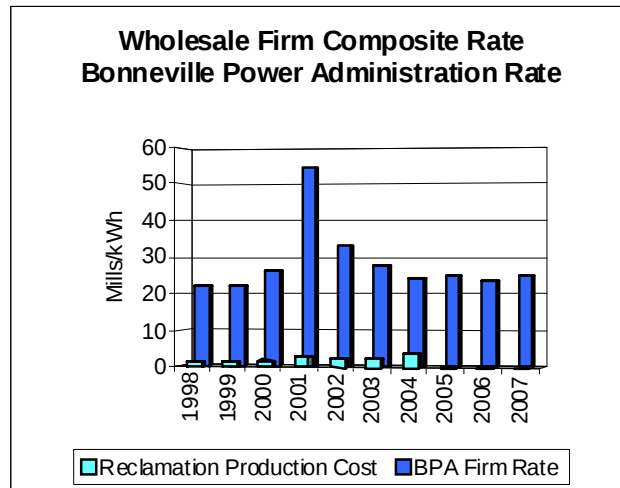
Grand Coulee P/G Generators			
Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
PG07	50,000	-	50,000
PG08	50,000	-	50,000
PG09	53,500	-	53,500
PG10	53,500	-	53,500
PG11	53,500	-	53,500
PG12	53,500	-	53,500
6 units	160,500	-	160,500

Generation

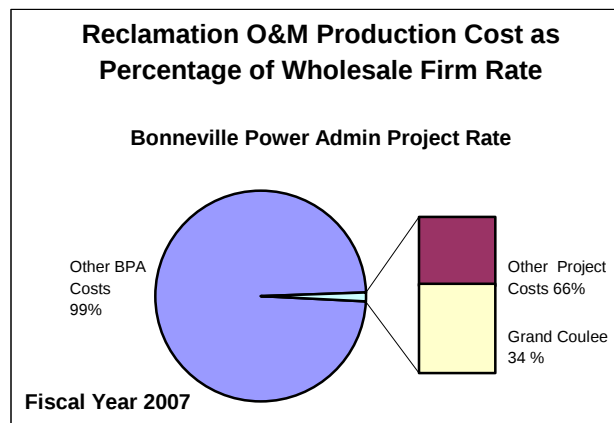


Prime Laboratory Benchmarks

Benchmark 1 Wholesale Firm Rate

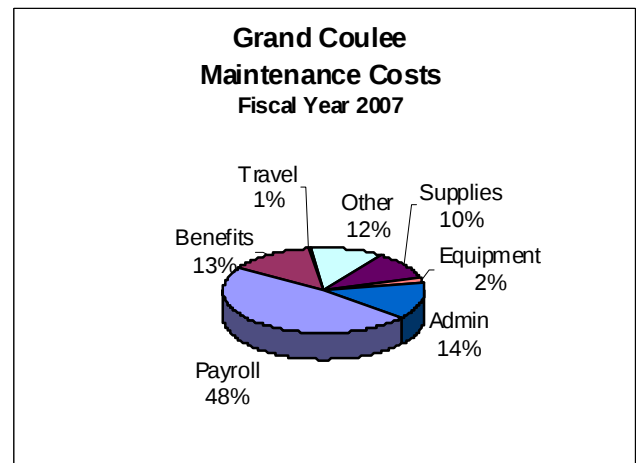
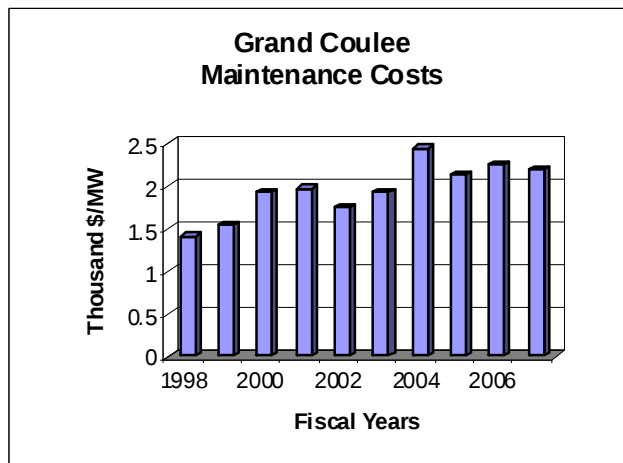
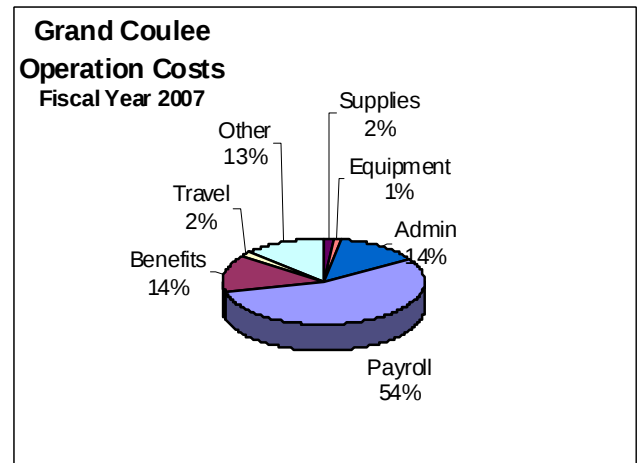
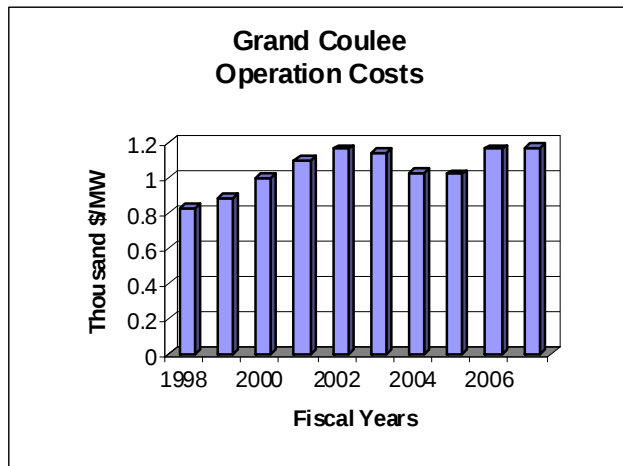


Benchmark 2 Reclamation's Production Cost as Percentage of Wholesale Firm Rate

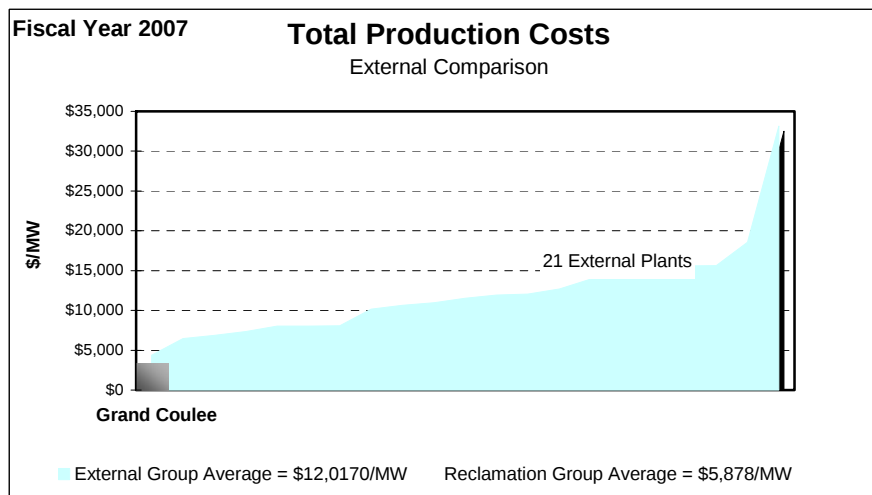
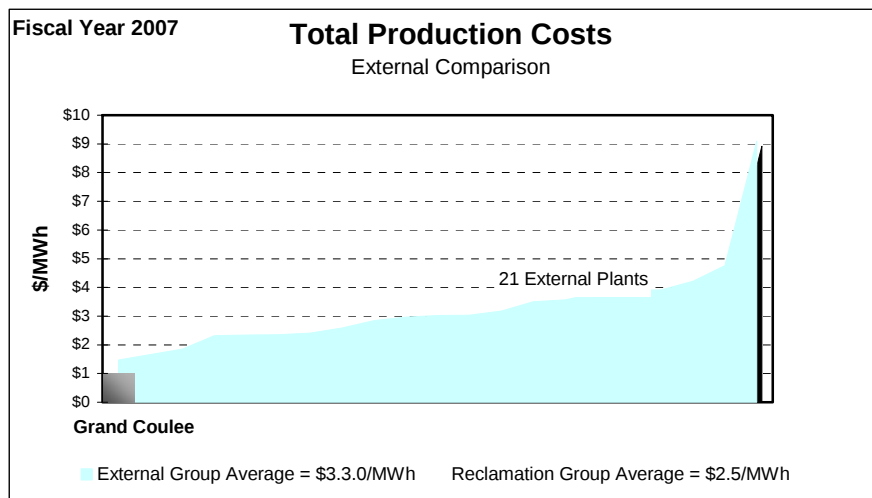
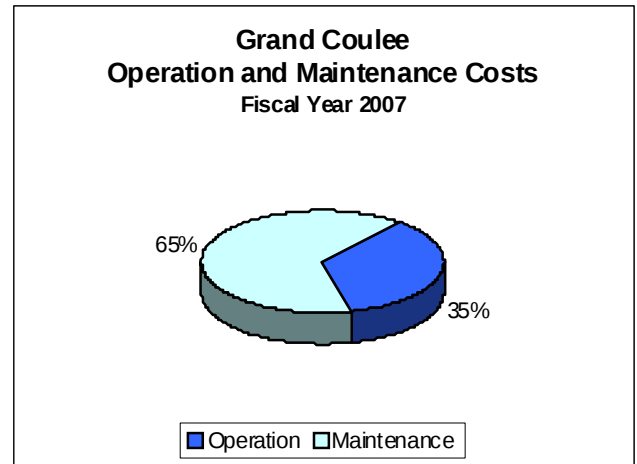
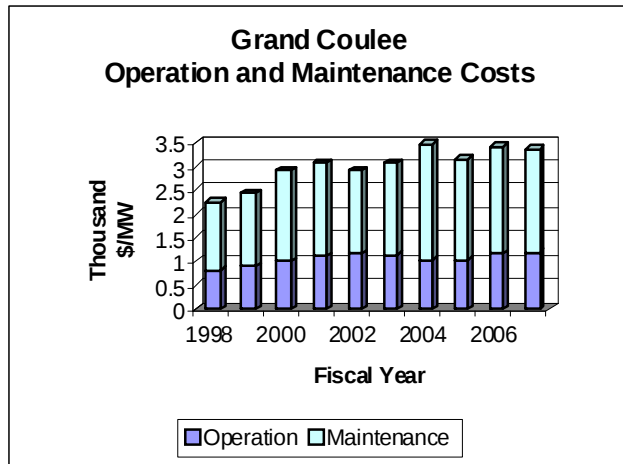


**Grand Coulee Powerplant
> 500 MW**

**Benchmark 3
Production Cost**

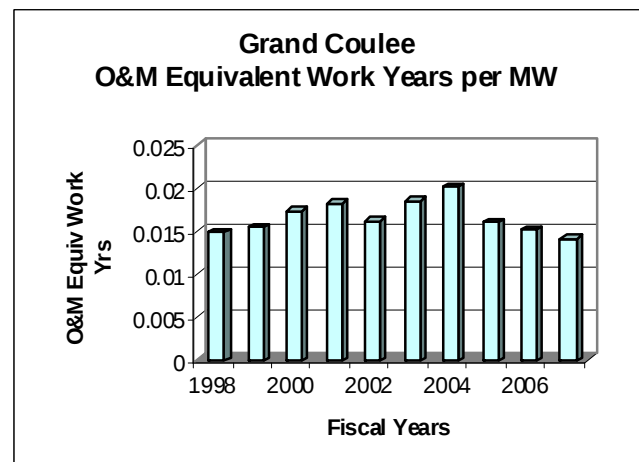
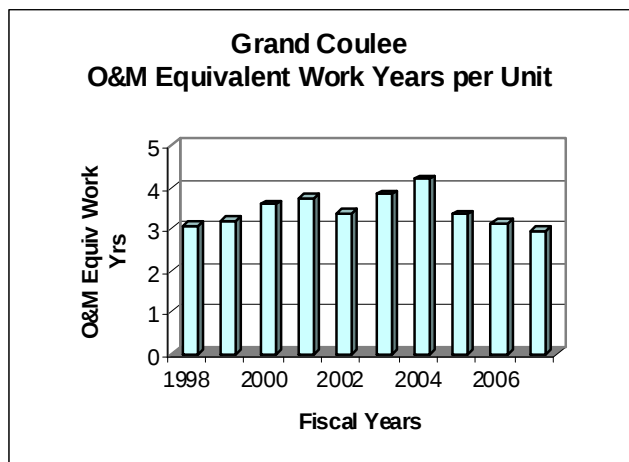
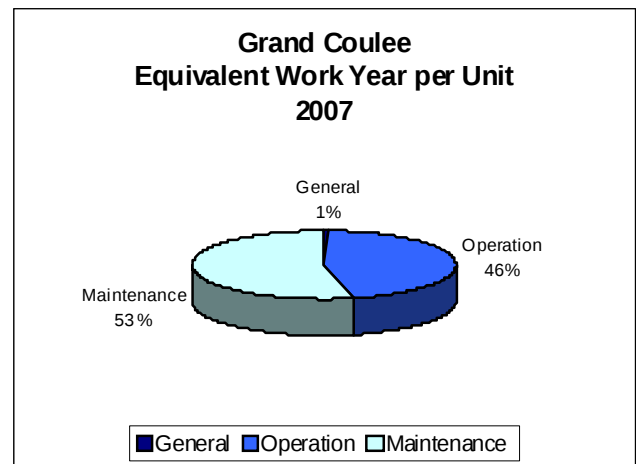
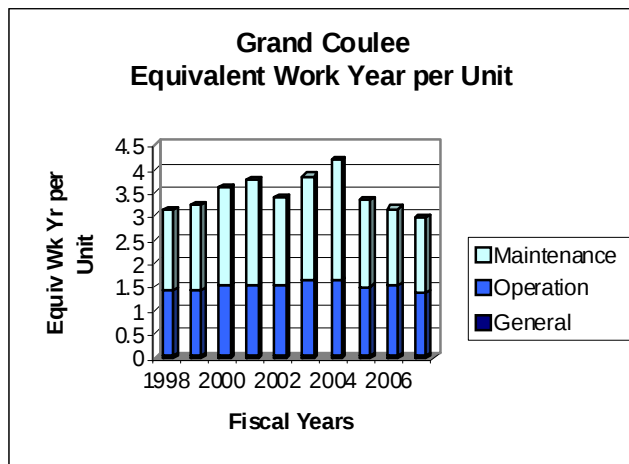


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Production Cost**

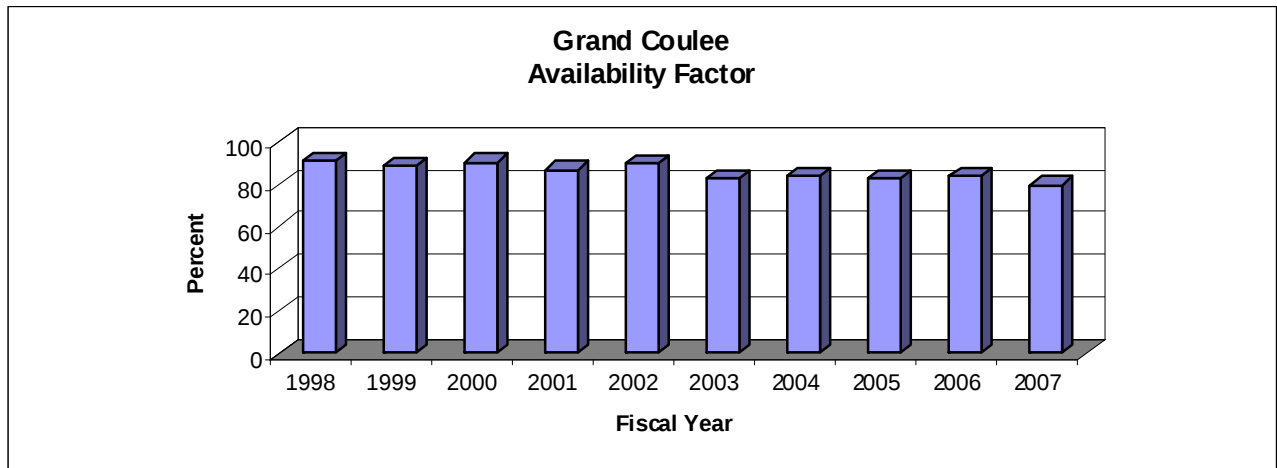


**Benchmark 4
Workforce Deployment**

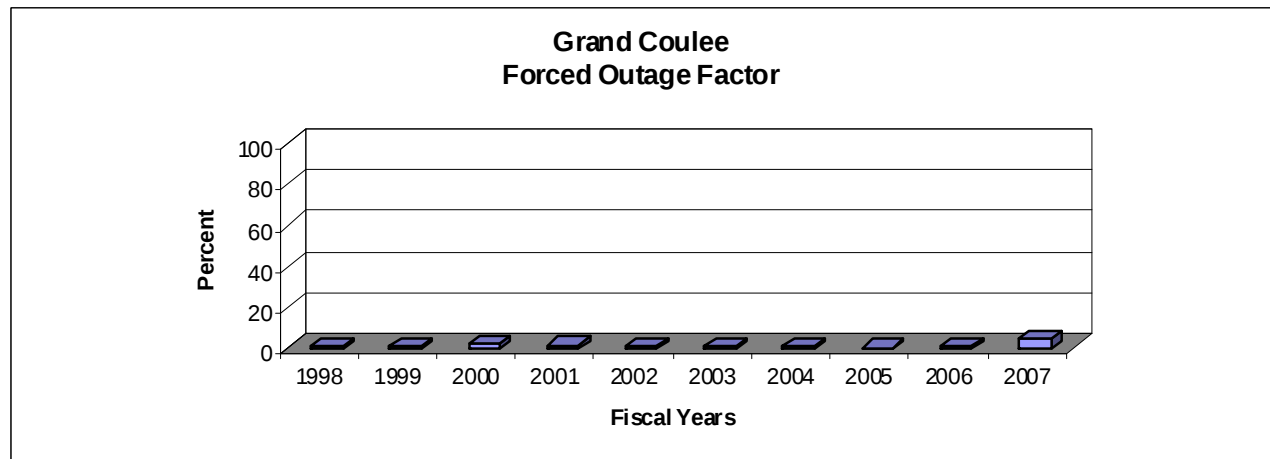
Grand Coulee FY 2007 Equivalent Work Staffing Year Levels						
	Equivalent Work Year Staffing Charged to Powerplant	Leave Additive	Denver and Washington Equivalent Work Year Staffing Additive	Total Equivalent Work Year Allocated to Powerplant	Total Equivalent Staffing Work Year per Generating Unit	Total Equivalent Work Year Staffing per Megawatt
General	0.06	0.01	0.59	0.65	0.02	0.00
Operation	40.53	4.29	0.00	44.82	1.36	0.01
Maintenance	47.42	5.02	0.00	52.44	1.59	0.01
Total Staffing	88.00	9.32	0.59	97.91	2.97	0.01



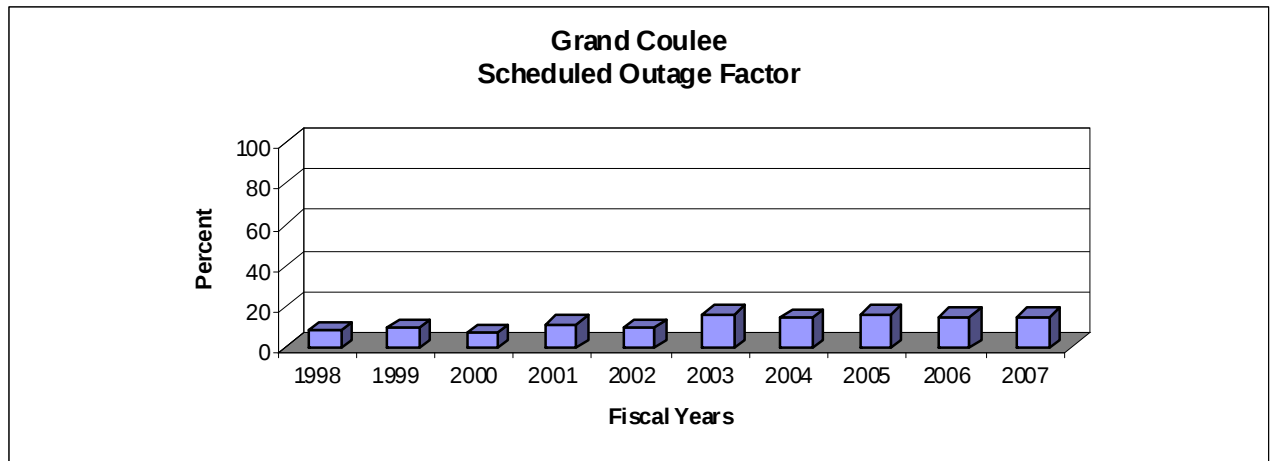
**Benchmark 5
Availability Factor**



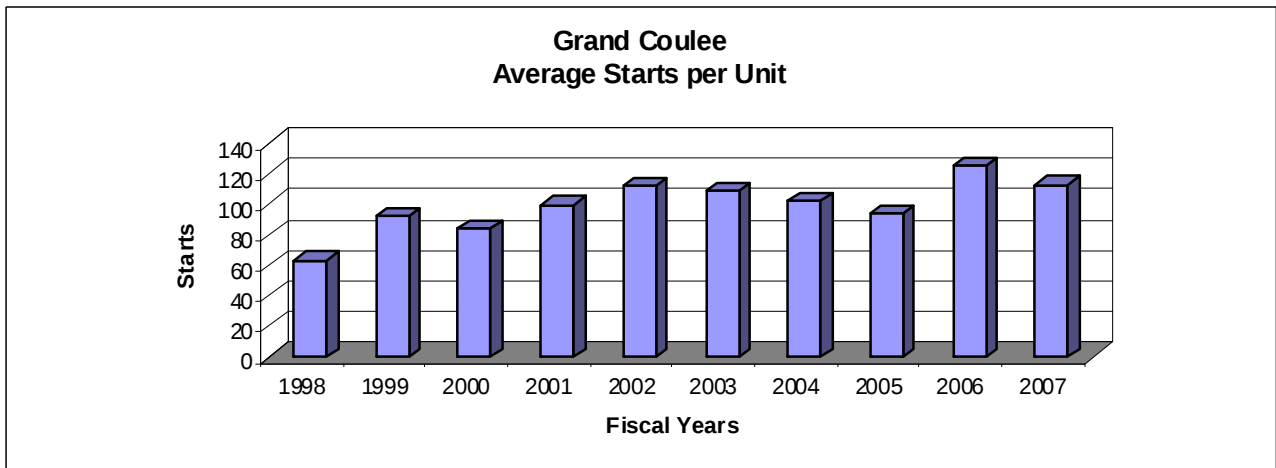
**Benchmark 6
Forced Outage Factor**



Benchmark 7
Scheduled Outage Factor



Starts



**Grand Coulee Powerplant
> 500 MW**

Benchmark Data Comparison					
Fiscal Year 2007	Grand Coulee Powerplant	Reclamation Average 500+ MW Group	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	24.8	Not Applicable	*22.45	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	0.8%	Not Applicable	12.1%	Not Applicable	Not Applicable
O&M Cost \$/MWh	1.00	1.65	2.76	***3.28	1.00
O&M Costs \$/MW	3,368	4,863	7,847	***12,0170	2,897
O&M Equiv Work Year per MW	0.01	0.02	0.03	Not Available	0.0
Availability Factor	80.0	81.93	82.3	**88.64	98.5
Forced Outage Factor	4.9	3.15	2.6	**2.61	0.0
Scheduled Outage Factor	15.1	14.92	15.1	**8.74	0.0

*Weighted by Net Generation

**2006 NERC Average

*** Energy Information Administration Data