

## **Folsom Powerplant Central Valley Project**

### **Ancillary Services**

<b>Folsom Ancillary Services</b>	
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	Yes
Black Start	Yes
Voltage Support	Yes

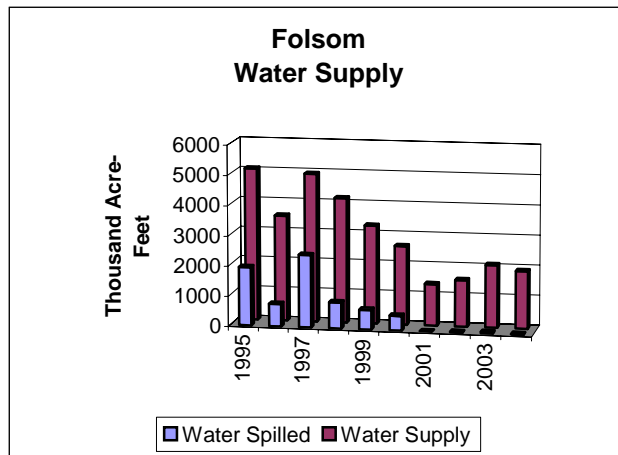
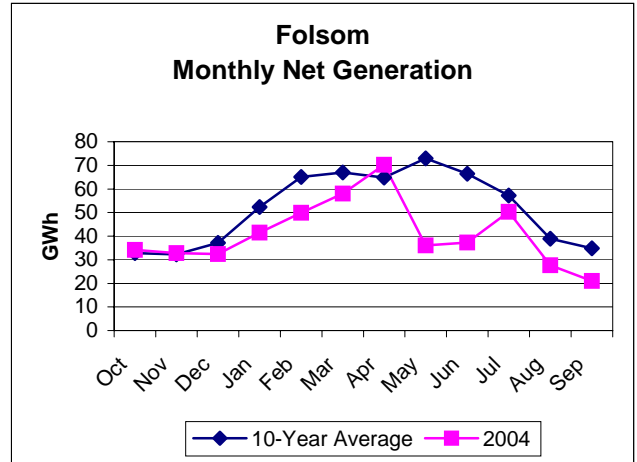
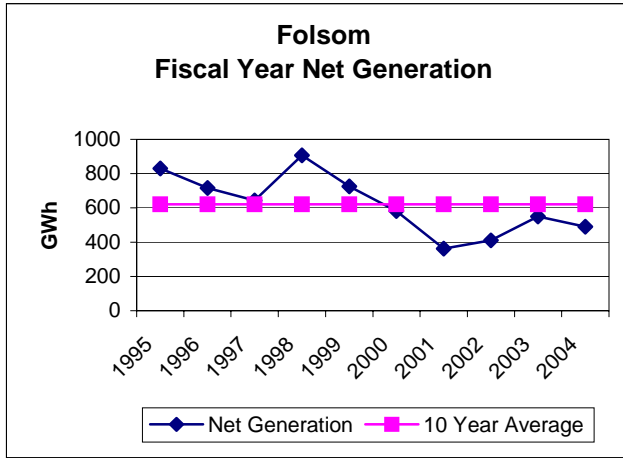
### **Generators**

<b>Folsom Generators</b> Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	54,000	12,240	66,240
2	54,000	12,240	66,240
3	54,000	12,240	66,240
3 Units	162,000	36,720	198,720

The maximum operational capacity is 210,000 kW

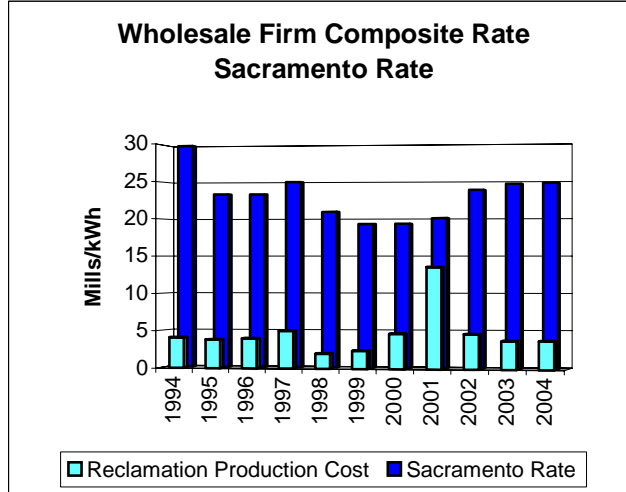
**Folsom Powerplant  
100-500 MW**

**Generation**

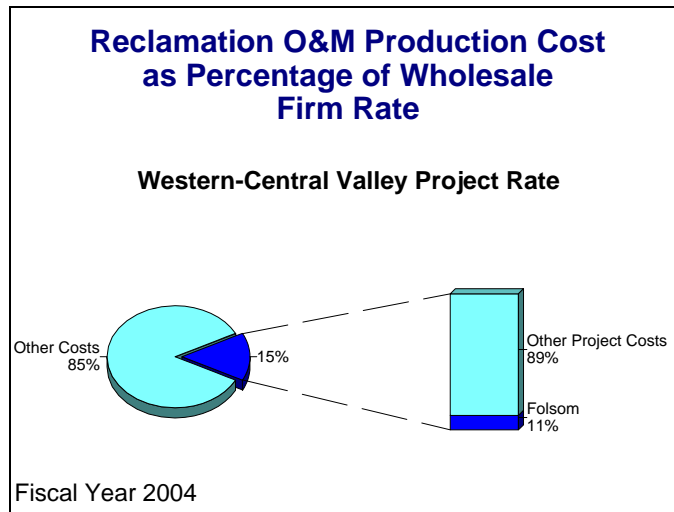


**Prime Laboratory Benchmarks**

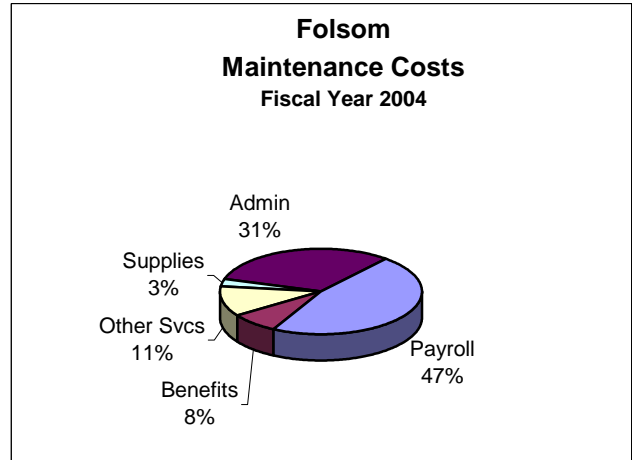
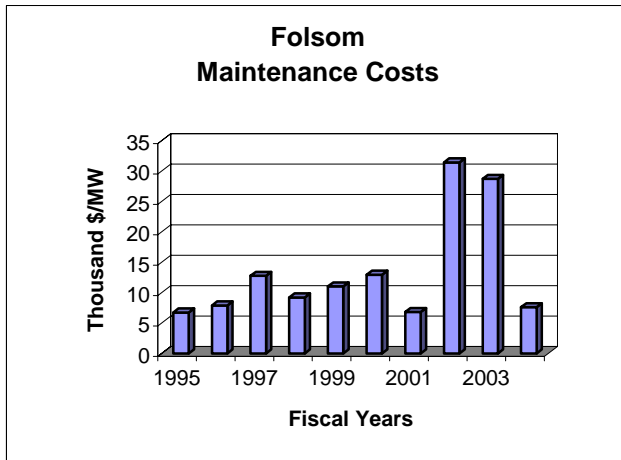
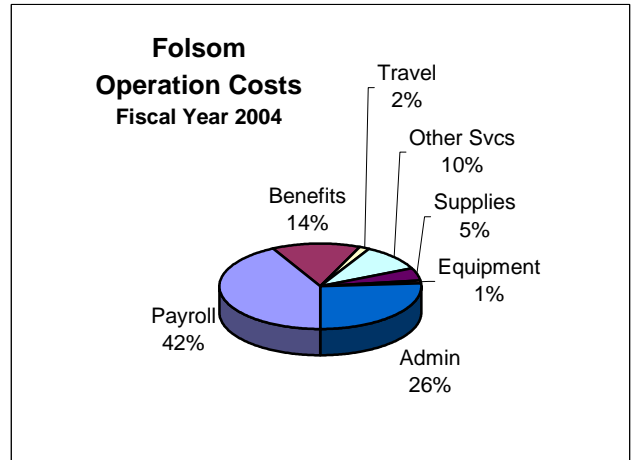
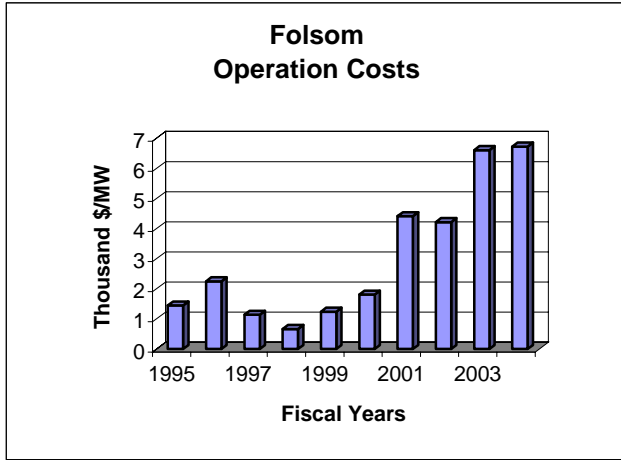
**Benchmark 1  
Wholesale Firm Rate**



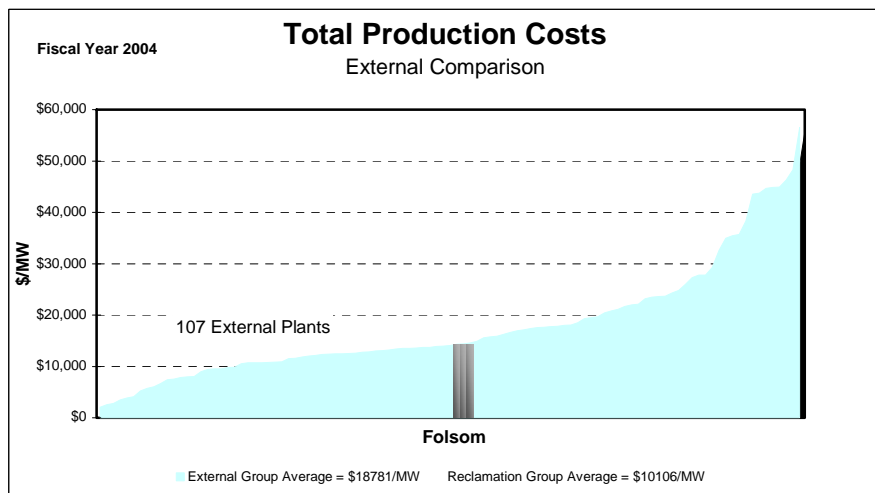
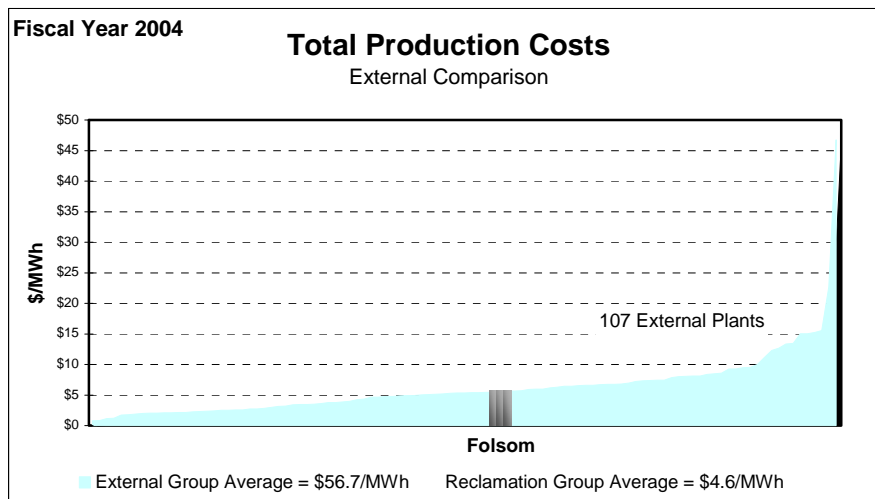
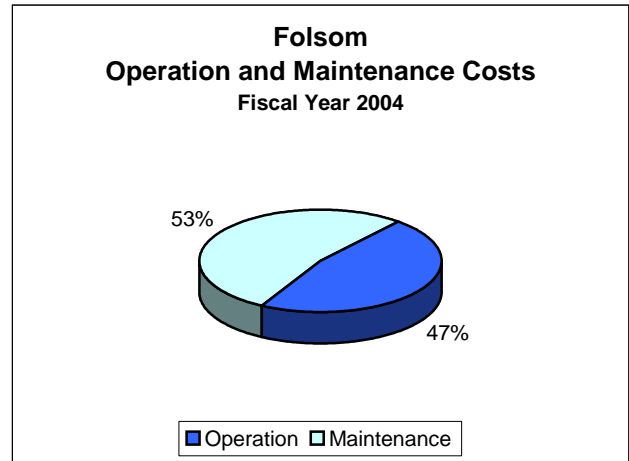
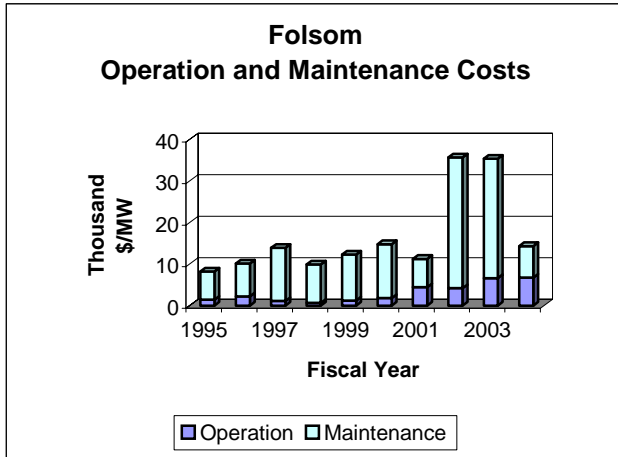
**Benchmark 2  
Reclamation's Production Cost as Percentage of Wholesale Firm Rate**



**Benchmark 3  
Production Cost**

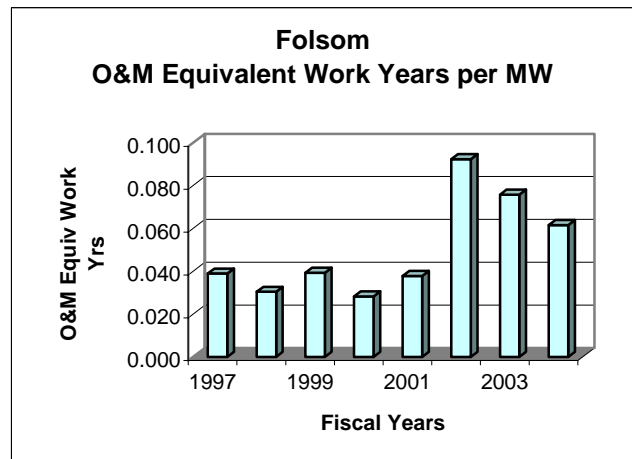
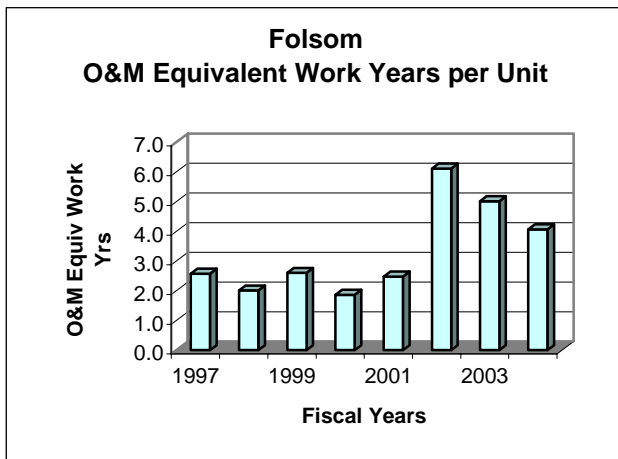
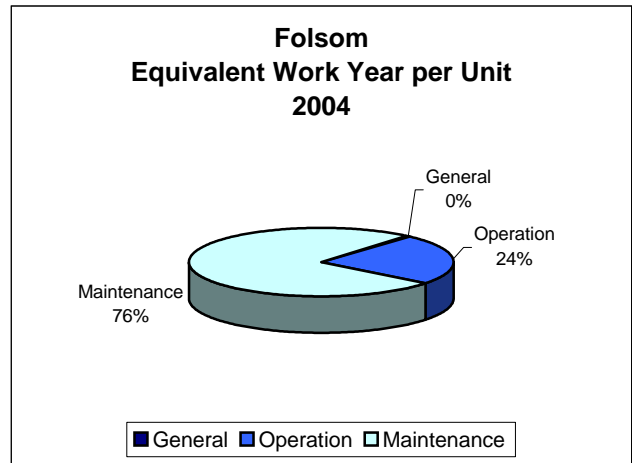
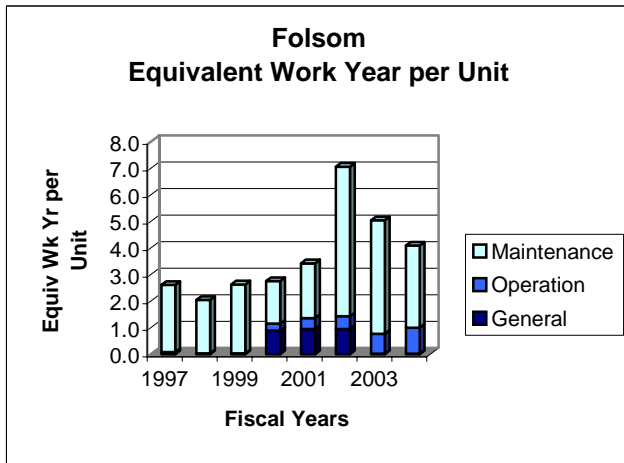


**Benchmark 3  
Production Cost**

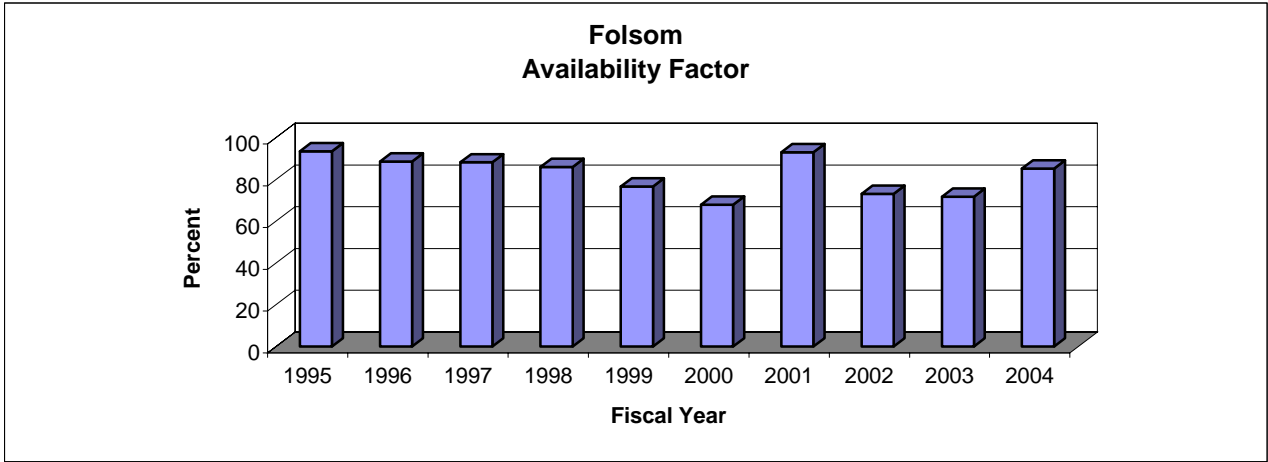


Benchmark 4  
Workforce Deployment

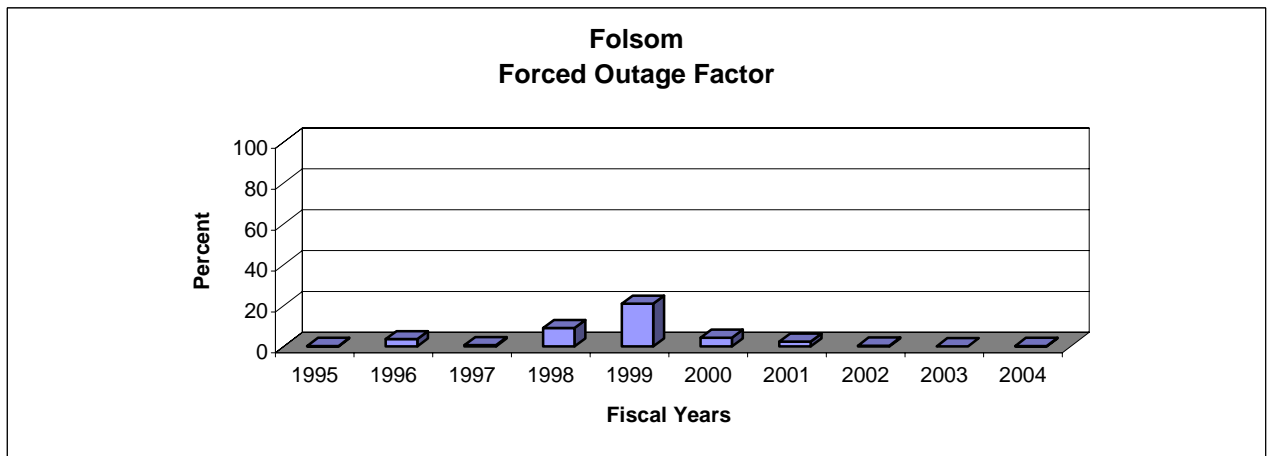
Folsom 2004 Equivalent Work Year Levels						
	Equiv Work Year Charged to Powerplant	Leave Additive	Denver and Washington Equiv Work Year Additive	Total Equiv Work Year Allocated to Powerplant	Total Equiv Work Year per Generating Unit	Total Equiv Work Year per Megawatt
General	0.00	0.00	0.05	0.05	0.02	0.00
Operation	2.64	0.31	0.00	2.95	0.98	0.01
Maintenance	8.29	0.97	0.00	9.27	3.09	0.05
Total Staffing	10.93	1.28	0.05	12.27	4.09	0.06



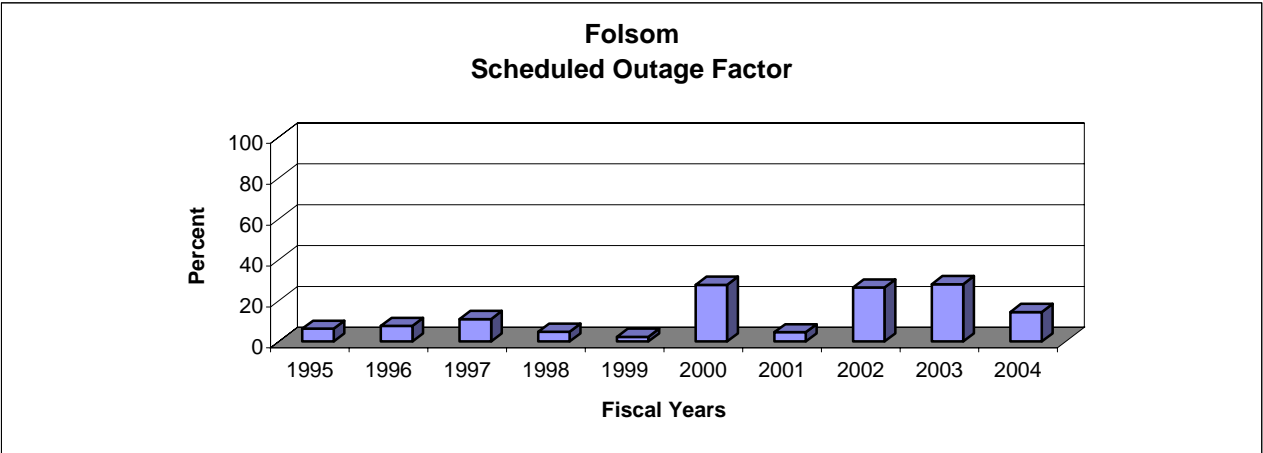
**Benchmark 5  
Availability Factor**



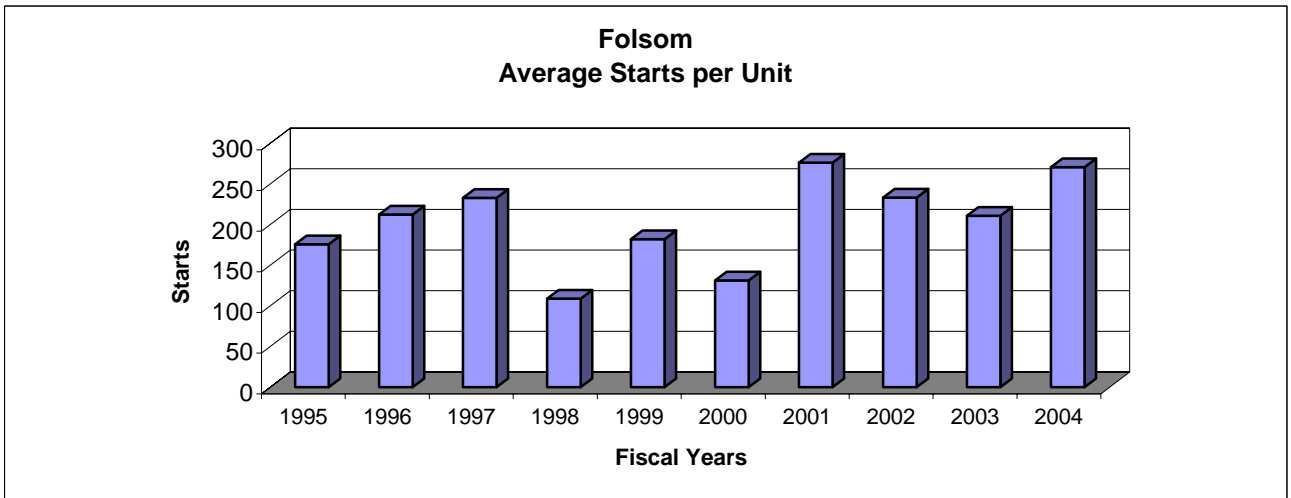
**Benchmark 6  
Forced Outage Factor**



**Benchmark 7  
Scheduled Outage Factor**



**Starts**





**Folsom Powerplant  
100-500 MW**

<b>Benchmark Data Comparison</b>					
<b>Fiscal Year 2004</b>	<b>Folsom Powerplant</b>	<b>Reclamation Average 100-500 MW Group</b>	<b>Total Reclamation Average</b>	<b>Industry Average</b>	<b>Best Performers</b>
<b>Wholesale Firm Rate Mills/kWh</b>	24.6	Not Applicable	*21.06	Not Available	Not Available
<b>Production Cost as Percentage of Wholesale Firm Rate</b>	1.6%	Not Applicable	13.5%	Not Applicable	Not Applicable
<b>O&amp;M Cost \$/MWh</b>	5.79	3.59	2.77	56.68	1.23
<b>O&amp;M Costs \$/MW</b>	14,319.47	8,960.28	7,316.97	18,781.34	2,951.22
<b>O&amp;M Equip Work Year per MW</b>	0.06	0.05	0.04	Not Available	0.000
<b>Availability Factor</b>	85.2	91.0	86.9	**89.2	99.97
<b>Forced Outage Factor</b>	0.3	0.6	0.7	**1.9	0.00
<b>Scheduled Outage Factor</b>	14.5	8.4	12.4	**8.9	0.02

\*Weighted by Net Generation

\*\*2003 NERC Average

\*\*\*Energy Information Administration Data