

## Nimbus Powerplant Central Valley Project

### Ancillary Services

<b>Nimbus Ancillary Services</b>	
Spinning Reserve	No
Non-Spinning Reserve	No
Replacement Reserve	No
Regulation/Load Following	No
Black Start	Yes
Voltage Support	Yes

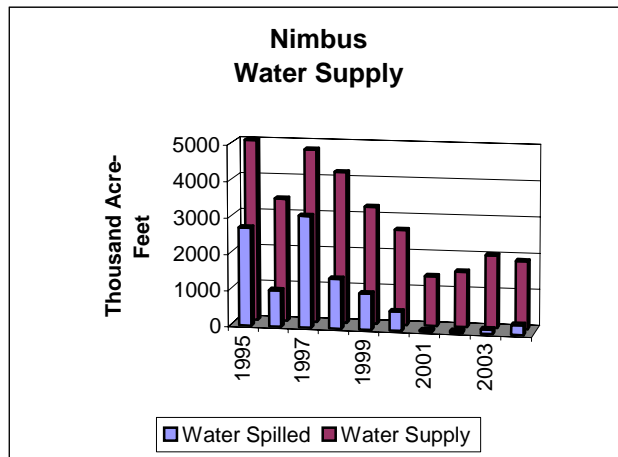
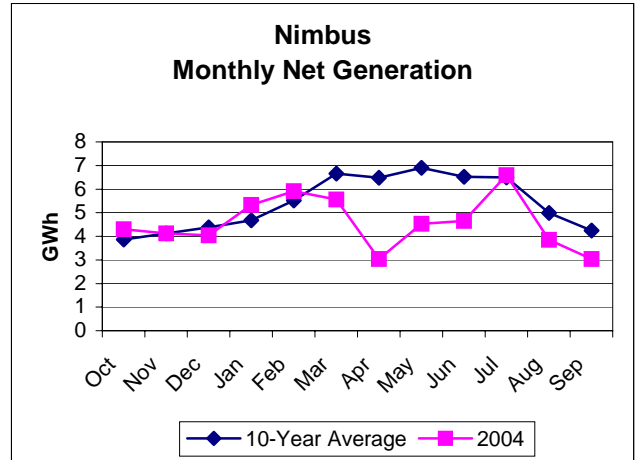
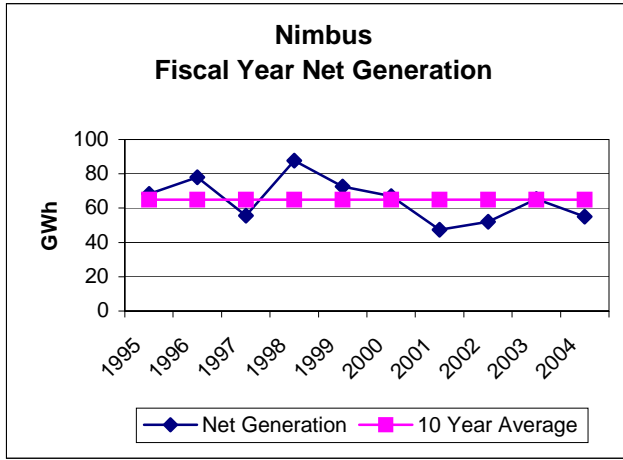
### Generators

<b>Nimbus Generators</b> Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	6,750	0	6,750
2	6,750	0	6,750
2 Units	13,500	0	13,500

The maximum operational capacity is limited to 12,00 kW due to head.

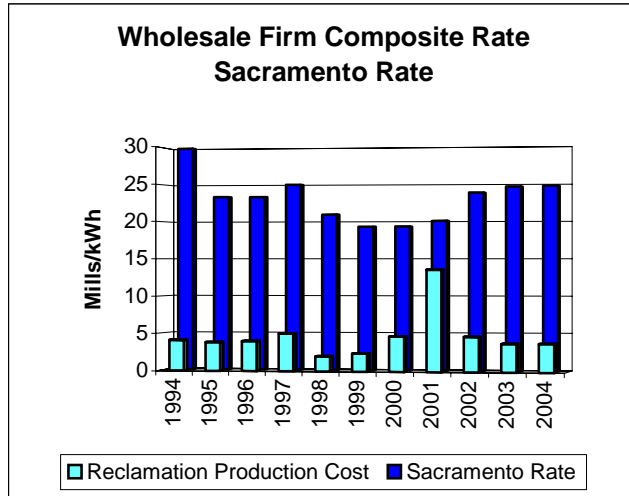
**Nimbus Powerplant  
10-30 Powerplant**

**Generation**

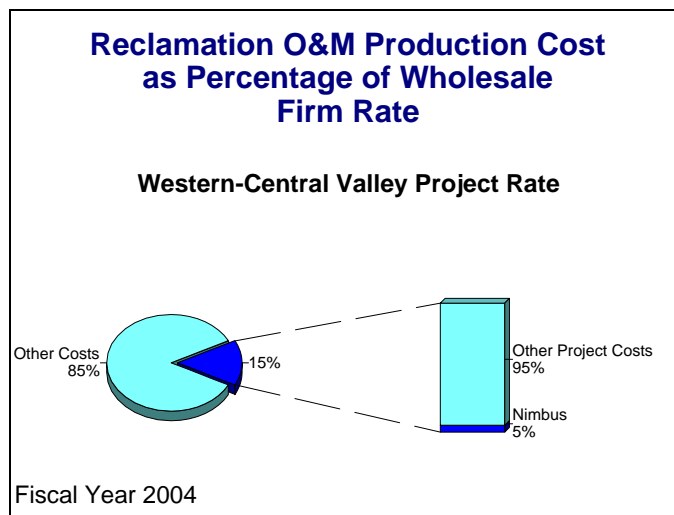


**Prime Laboratory Benchmarks**

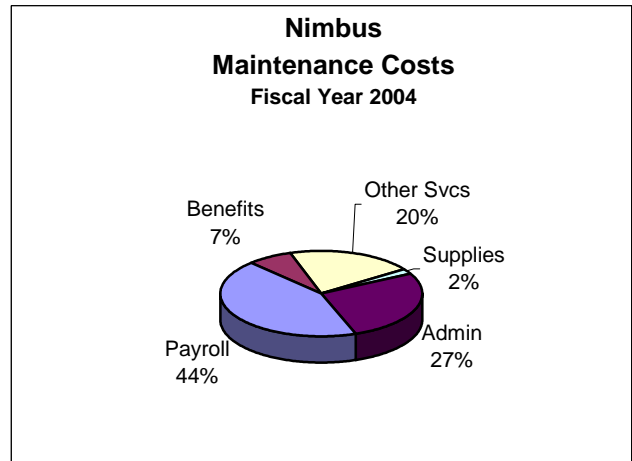
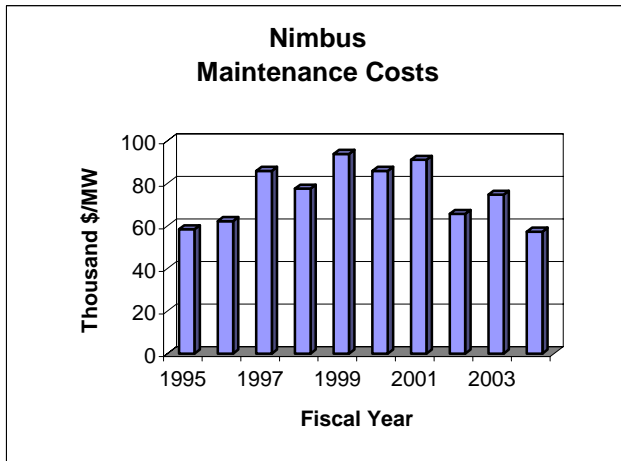
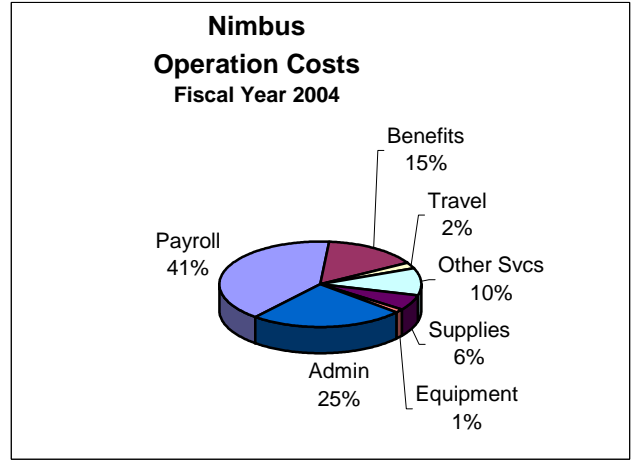
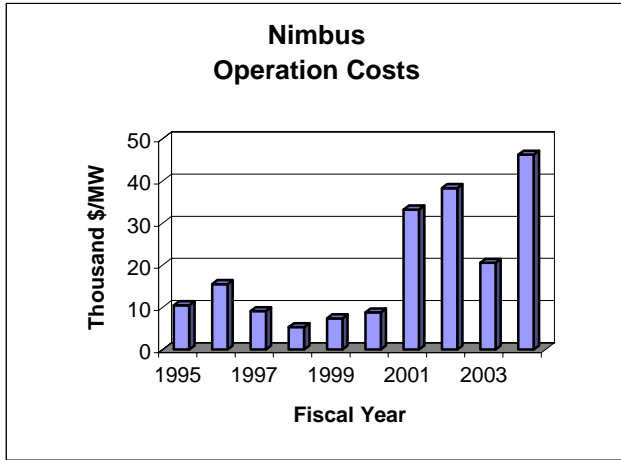
**Benchmark 1  
Wholesale Firm Rate**



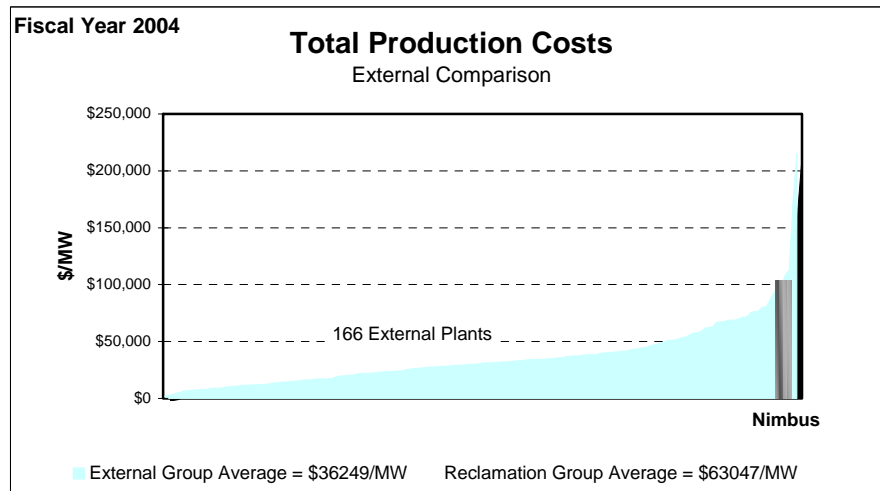
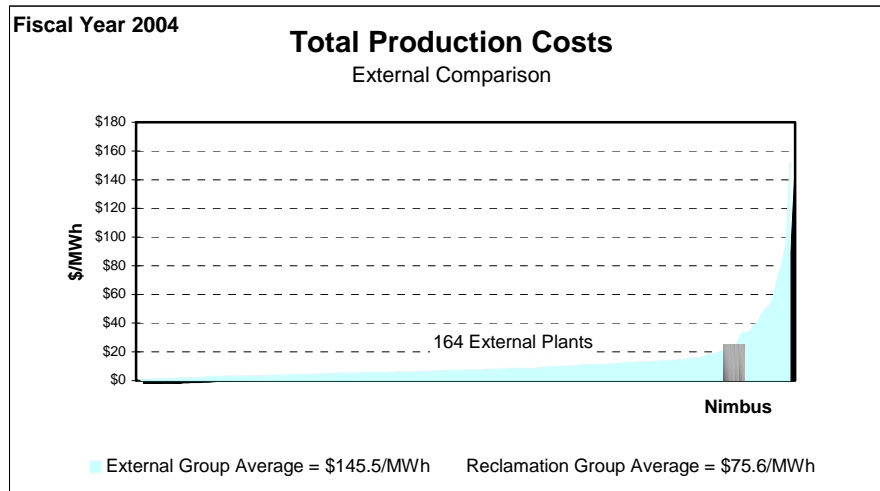
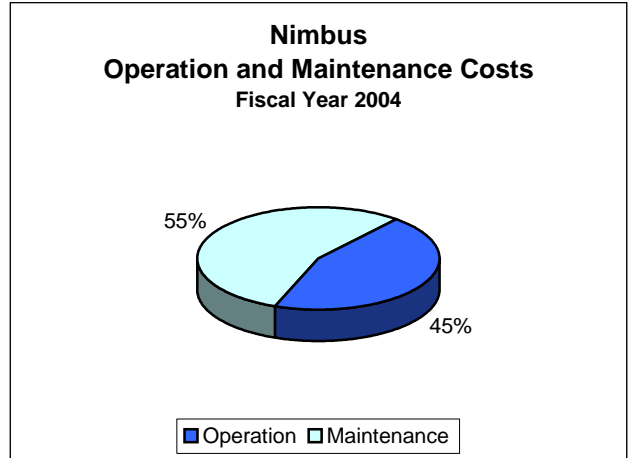
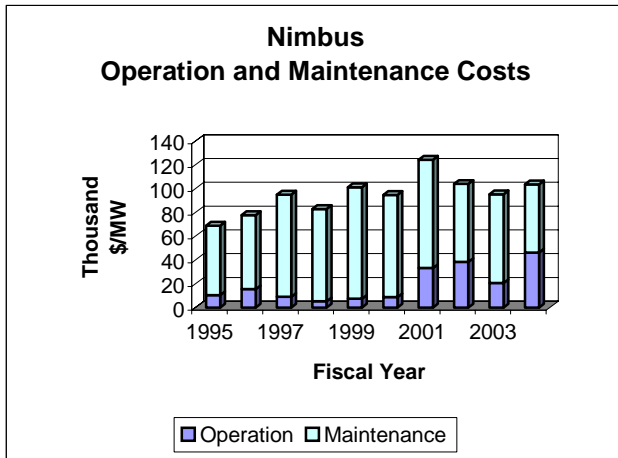
**Benchmark 2  
Reclamation's Production Cost as Percentage of Wholesale Firm Rate**



Benchmark 3  
Production Cost

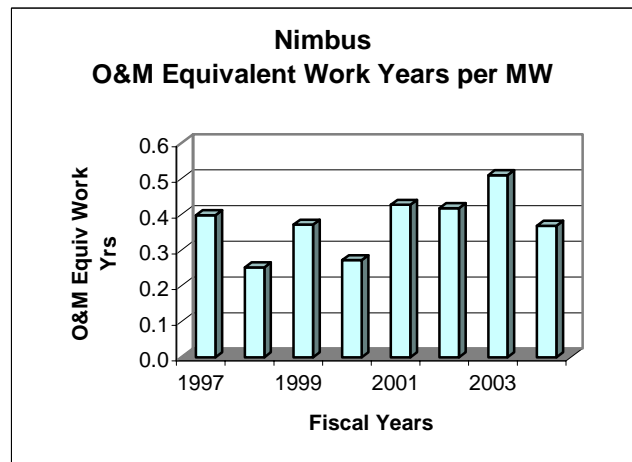
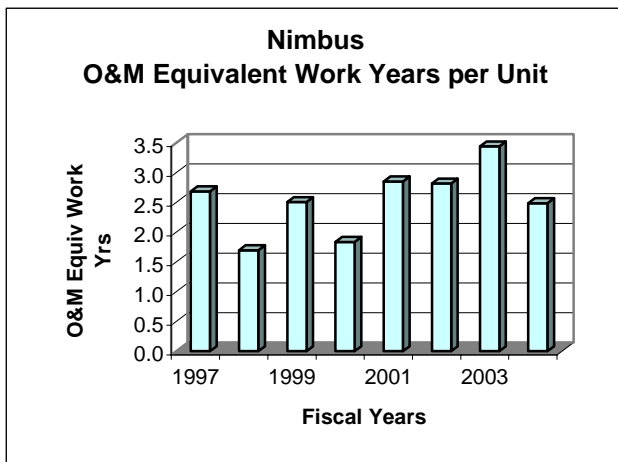
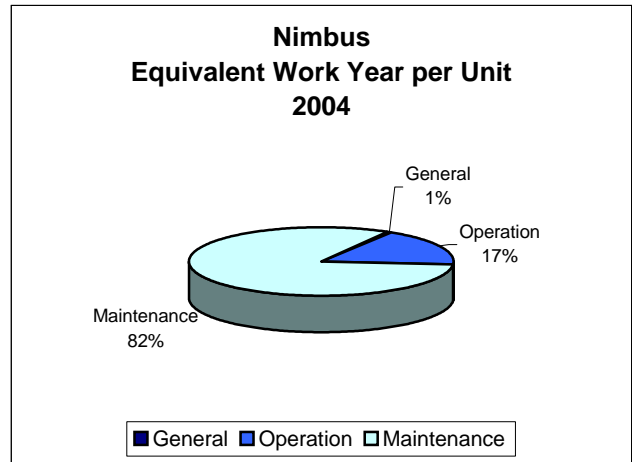
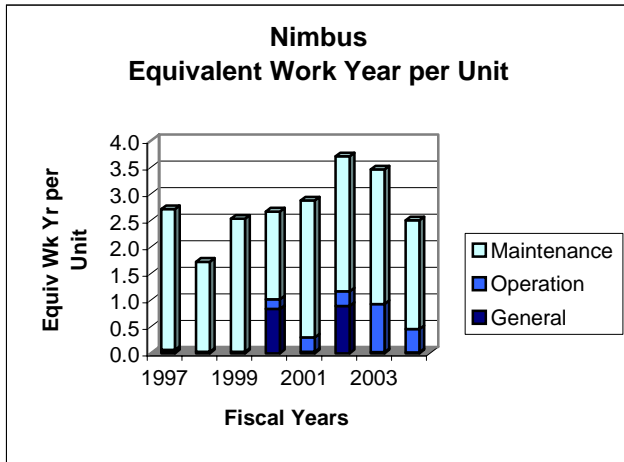


**Benchmark 3  
Production Cost**

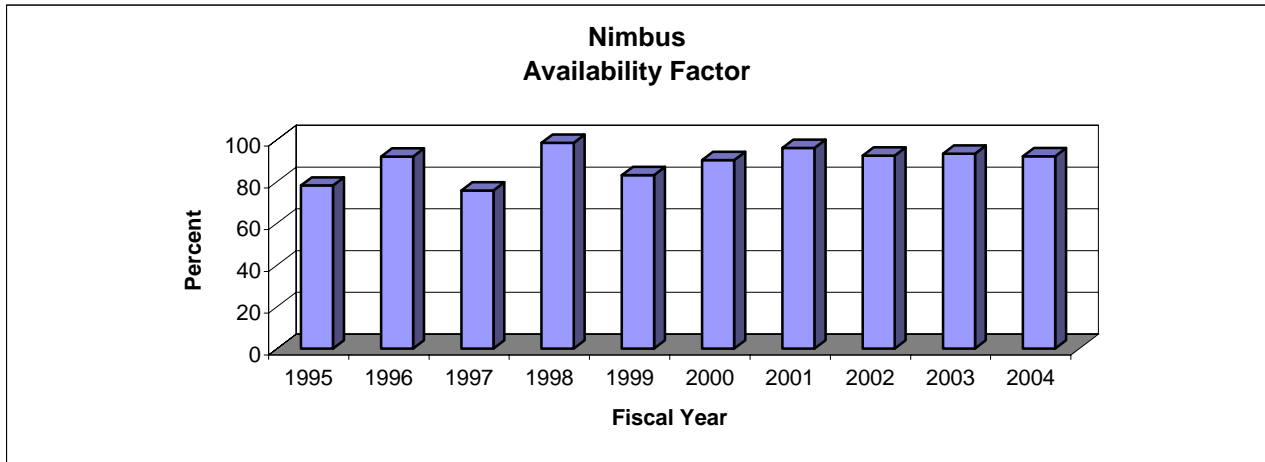


Benchmark 4  
Workforce Deployment

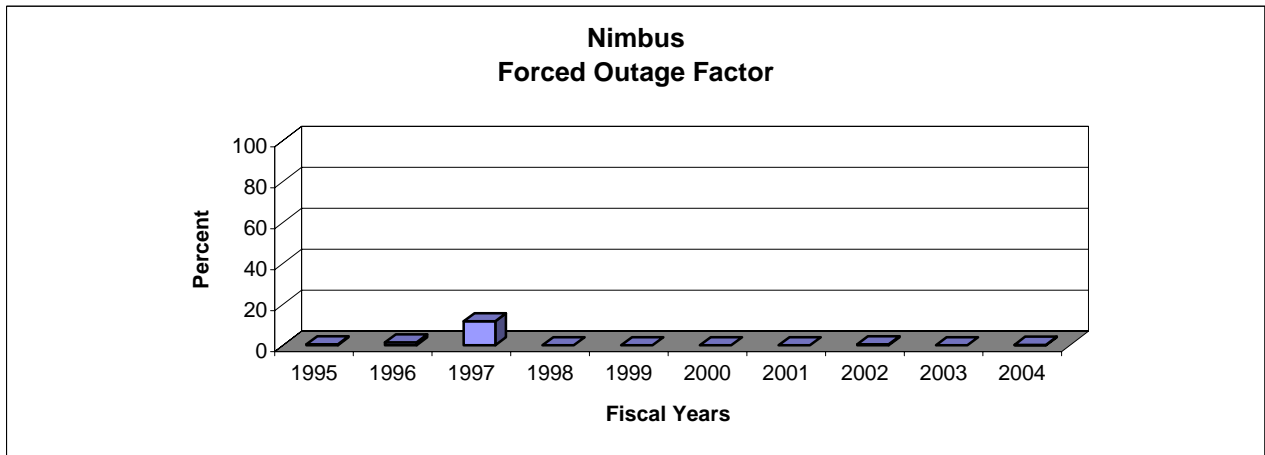
Nimbus 2004 Equivalent Work Year Levels						
	Equiv Work Year Charged to Powerplant	Leave Additive	Denver and Washington Equiv Work Year Additive	Total Equiv Work Year Allocated to Powerplant	Total Equiv Work Year per Generating Unit	Total Equiv Work Year per Megawatt
General	0.00	0.00	0.03	0.03	0.02	0.00
Operation	0.78	0.09	0.00	0.87	0.44	0.06
Maintenance	3.67	0.43	0.00	4.10	2.05	0.30
Total Staffing	4.45	0.52	0.03	5.01	2.50	0.37



**Benchmark 5  
Availability Factor**

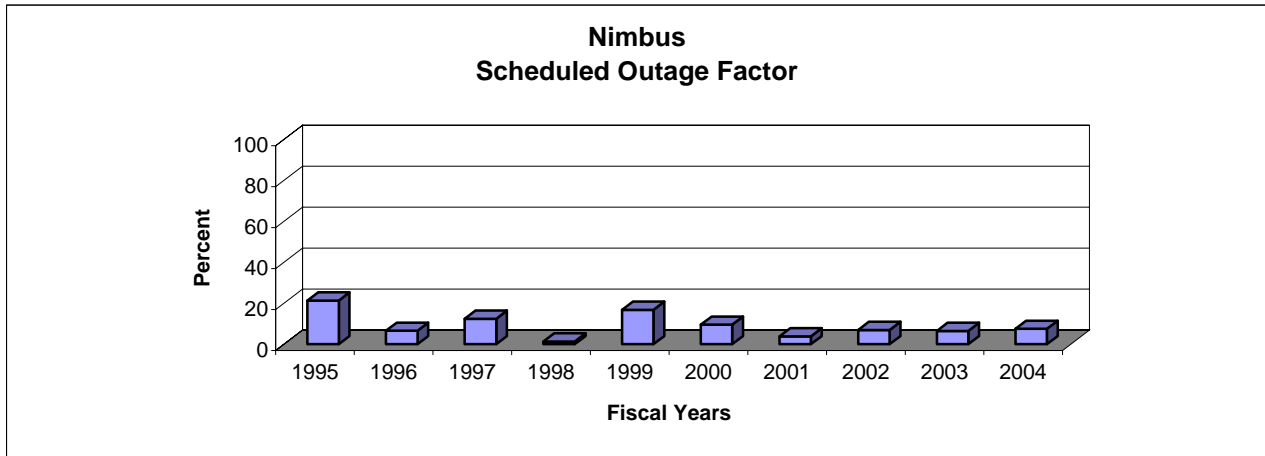


**Benchmark 6  
Forced Outage Factor**



FY-97 - Oil leak in Unit 1 Kaplan wheel control line

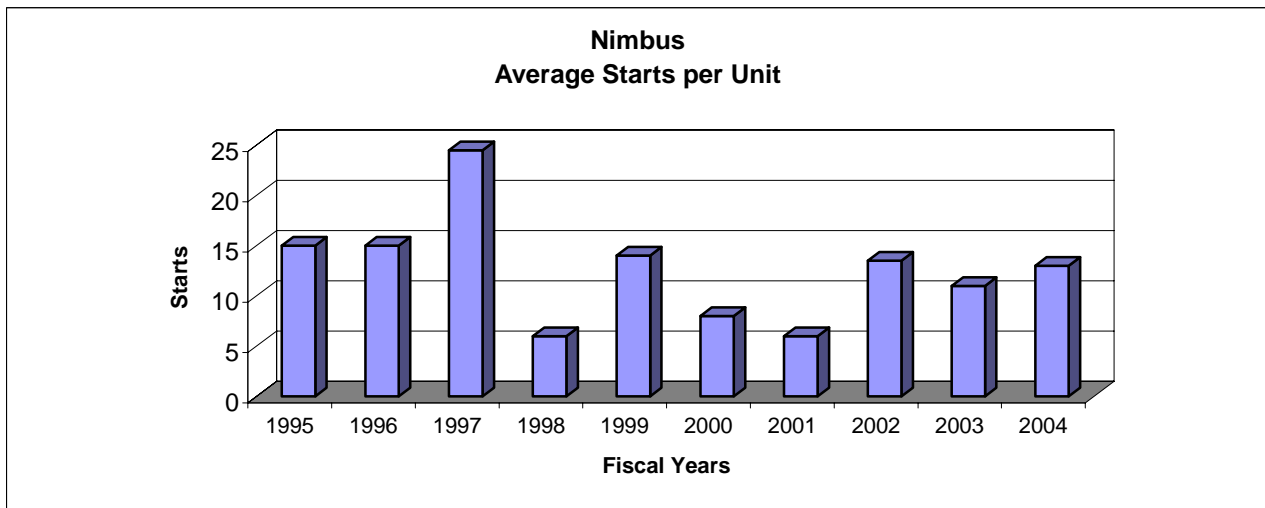
**Benchmark 7  
Scheduled Outage Factor**



FY-94 - Extended maintenance

FY-95 - Unit 1 turbine repair

**Starts**





**Nimbus Powerplant  
10-30 Powerplant**

<b>Benchmark Data Comparison</b>					
<b>Fiscal Year 2004</b>	<b>Nimbus Powerplant</b>	<b>Reclamation Average 10-30 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>	0.78%	Not Applicable	13.5%	Not Applicable	Not Applicable
<b>O&amp;M Cost \$/MWh</b>	25.44	24.61	2.77	145.47	1.23
<b>O&amp;M Costs \$/MW</b>	103,580.69	65,356.27	7,316.97	36,248.69	2,951.22
<b>O&amp;M Equip Work Year per MW</b>	0.37	0.33	0.04	Not Available	0.000
<b>Availability Factor</b>	92.2	71.0	86.9	**89.2	99.97
<b>Forced Outage Factor</b>	0.3	0.1	0.7	**1.9	0.00
<b>Scheduled Outage Factor</b>	7.5	28.9	12.4	**8.9	0.02

\*Weighted by Net Generation

\*\*2003 NERC Average

\*\*\*Energy Information Administration Data