

**Ancillary Services**

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

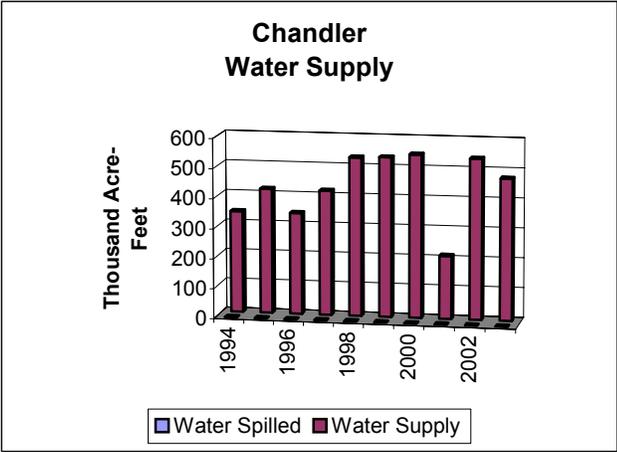
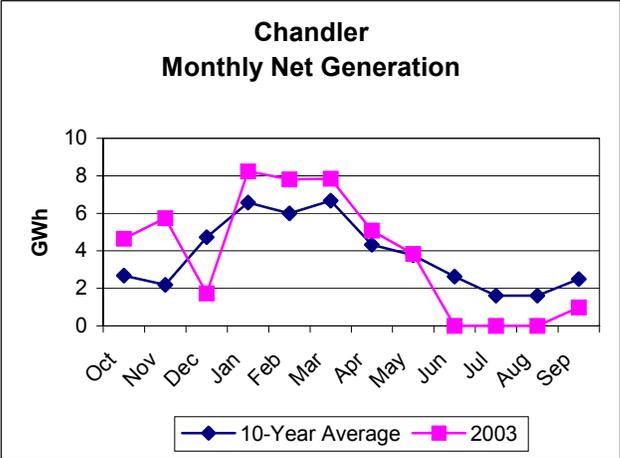
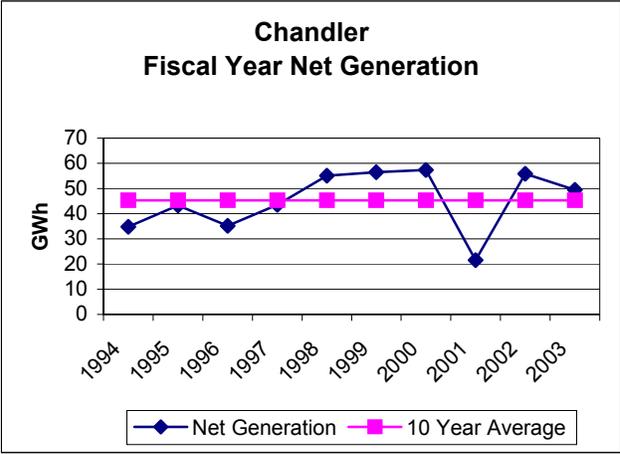
Black start possible, but it would never be done because of power line constraints.

**Generators**

<b>Chandler Generators</b>			
Existing Number and Capacity			
Unit #	Original Nameplate (kW)	Increased (kW)	Present Name Plate (kW)
1	6,000	0	6,000
2	6,000	0	6,000
2 Units	12,000	0	12,000

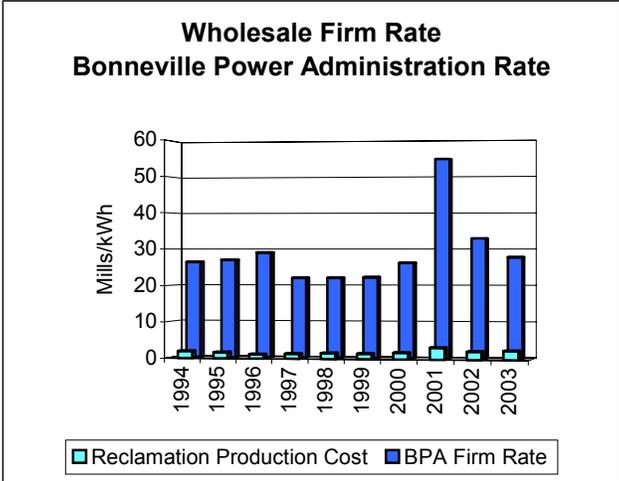
**Chandler Powerplant  
10-30 MW**

**Generation**

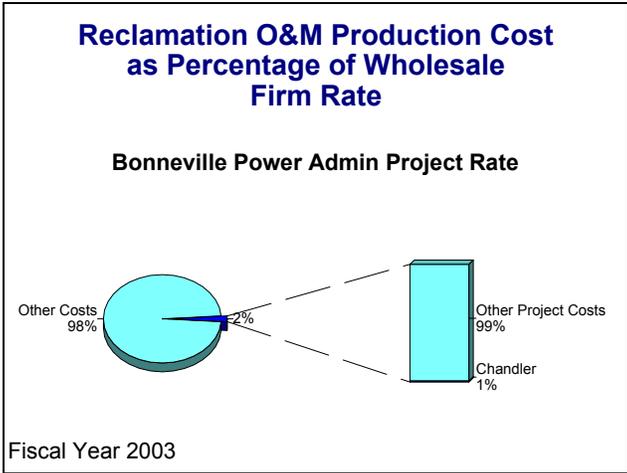


**Prime Laboratory Benchmarks**

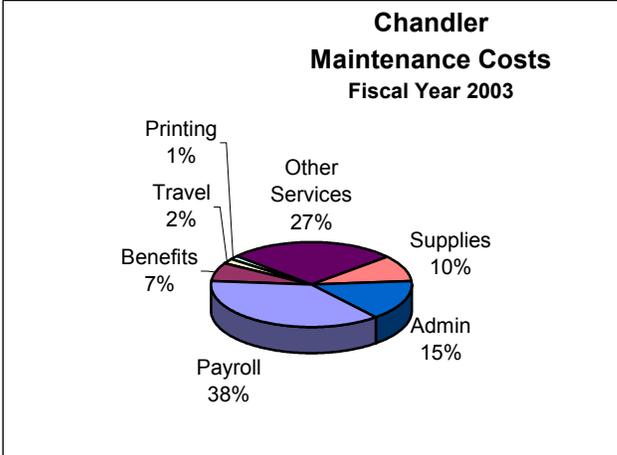
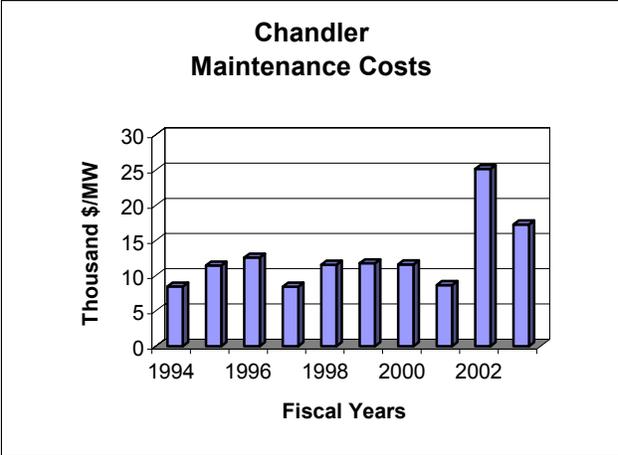
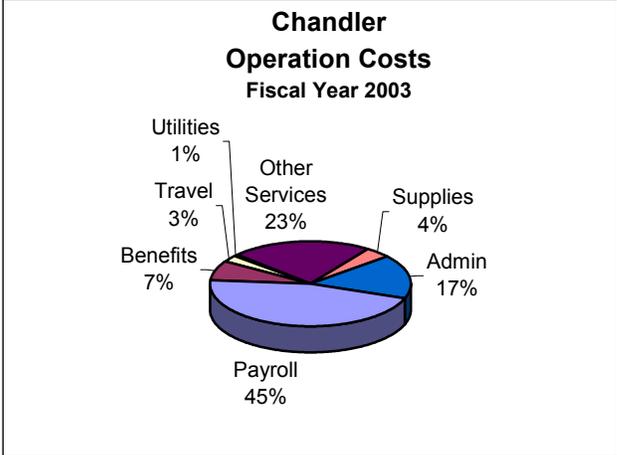
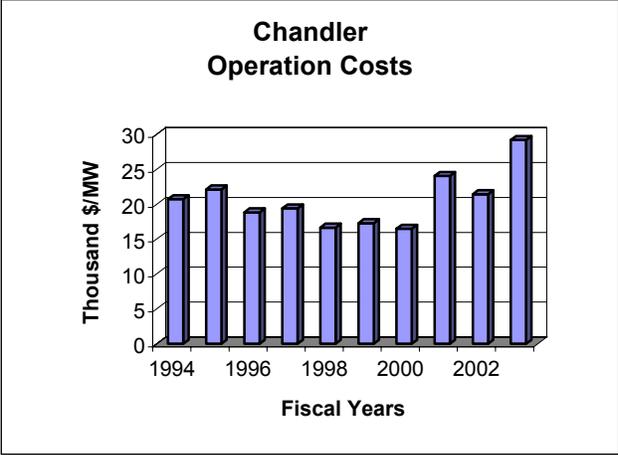
**Benchmark 1  
Wholesale Firm Rate**



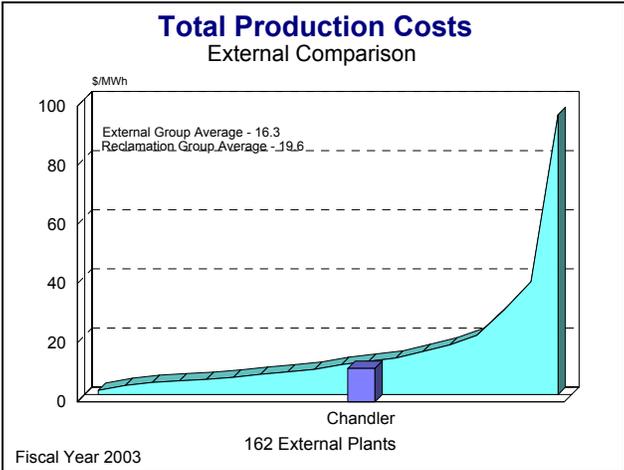
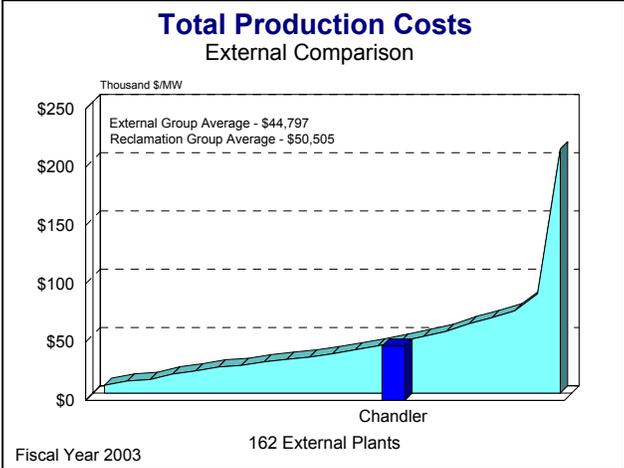
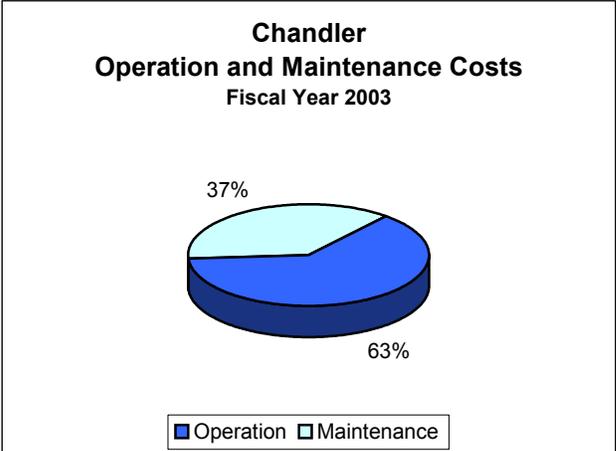
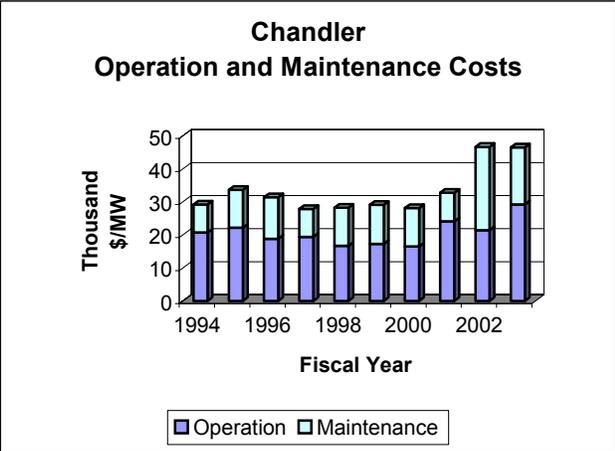
**Benchmark 2  
Reclamation's Production Cost as Percentage of Wholesale Firm Rate**



**Benchmark 3  
Production Cost**

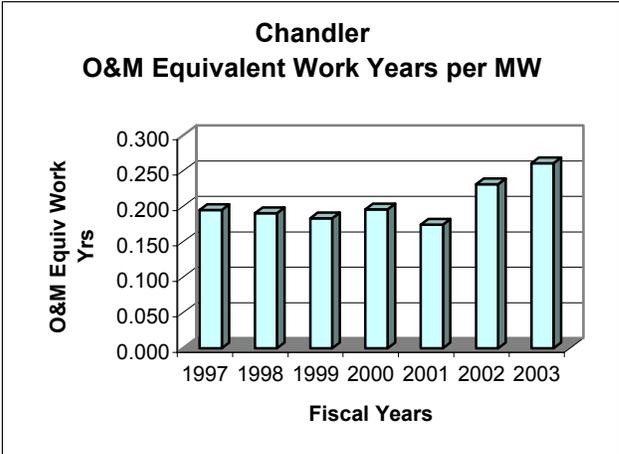
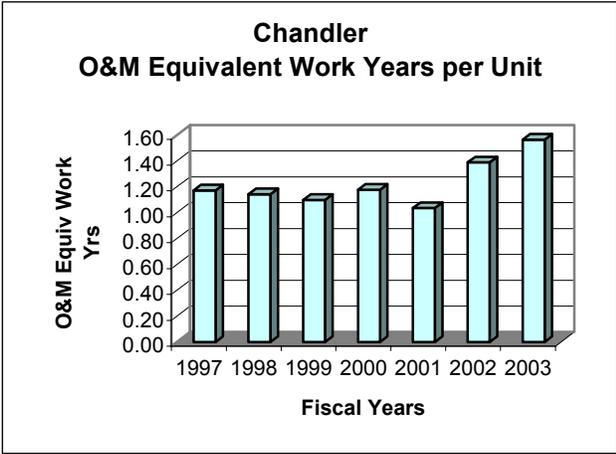
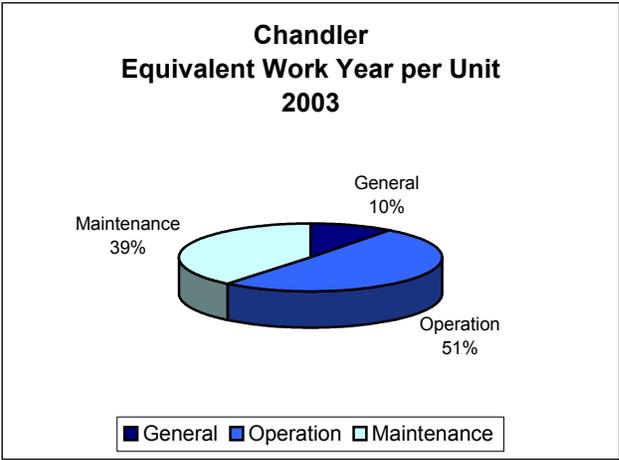
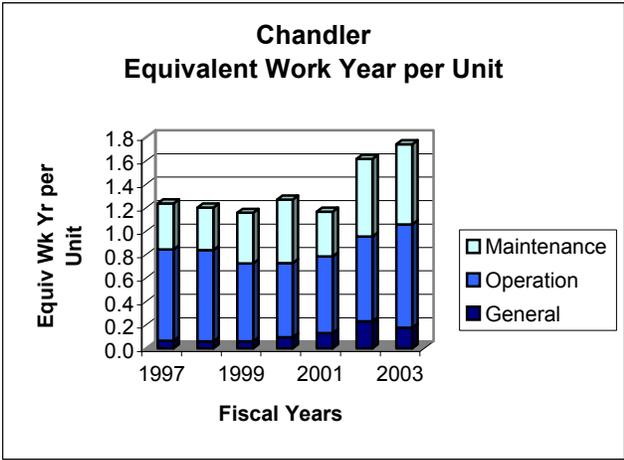


Benchmark 3  
Production Cost

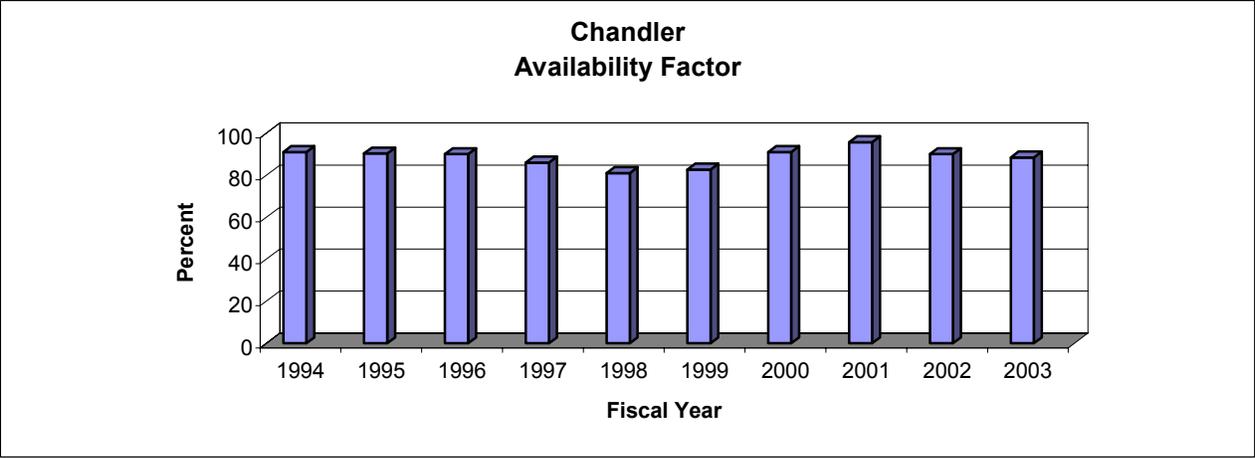


Benchmark 4  
Workforce Deployment

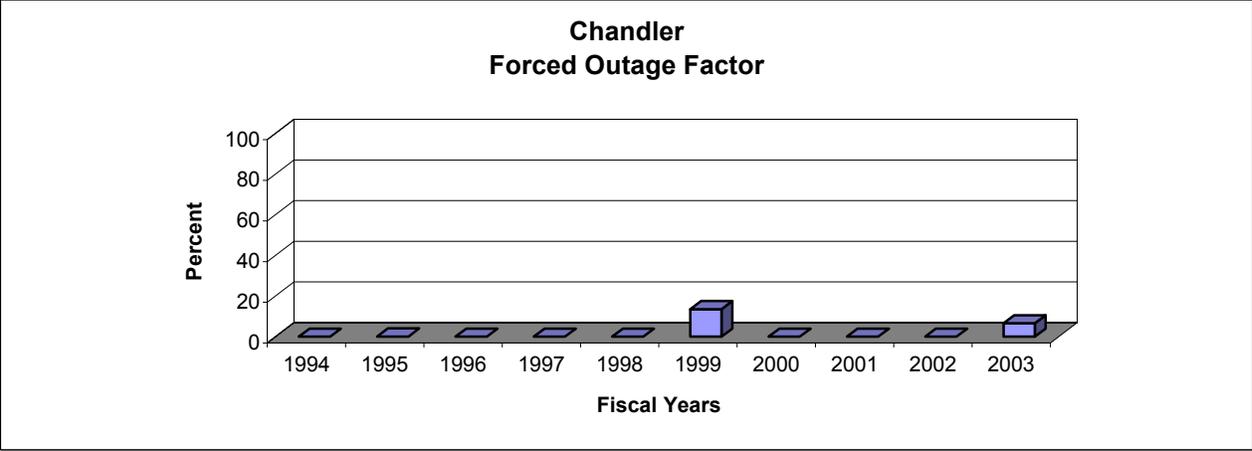
Chandler 2003 Equivalent Work Year Levels						
	Equiv Work Year Charged to Powerplant	Leave Additive	Denver and Washington Equiv Work Year Additive	Total Equiv Work Year Allocated to Powerplant	Total Equiv Work year per Generating Unit	Total Equiv Work Year per Megawatt
General	0.28	0.03	0.04	0.35	0.18	0.03
Operation	1.59	0.17	0	1.76	0.88	0.147
Maintenance	1.23	0.13	0	1.37	0.68	0.114
Total Staffing	3.1	0.34	0.04	3.48	1.74	0.29



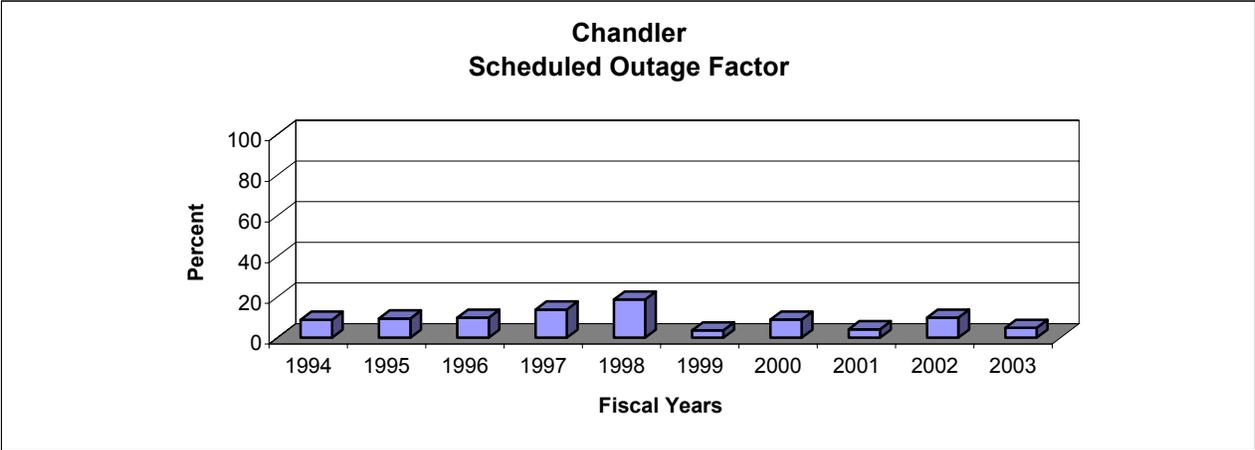
**Benchmark 5  
Availability Factor**



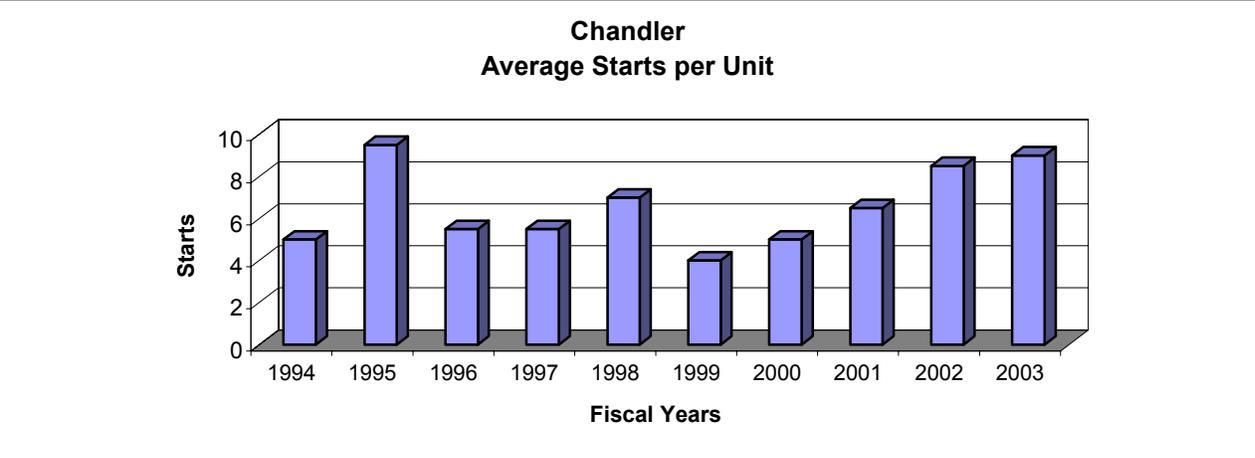
**Benchmark 6  
Forced Outage Factor**



Benchmark 7  
Scheduled Outage Factor



Starts



## Benchmark Data Comparison

Fiscal Year 2003	Chandler Powerplant	Reclamation Average 10-30 MW Group	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	27.7	Not Applicable	*23.1	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	0.02%	Not Applicable	12.0%	Not Applicable	Not Applicable
O&M Cost \$/MWh	11.3	17.0	2.7	16.3	1.1
O&M Costs \$/MW	46,484	54,175	7,315	44,907	3,108
O&M Equip Work Year per MW	0.3	0.3	0.04	Not Available	0.01
Availability Factor	88.5	84.2	83.6	**88.9	99.1
Forced Outage Factor	6.6	0.7	1.5	**2.4	0.0
Scheduled Outage Factor	4.9	15.1	14.9	**8.7	0.0

\*Weighted by Net Generation  
\*\*2002NERC Average