

Fremont Canyon Powerplant Pick-Sloan Missouri Basin Program

Ancillary Services

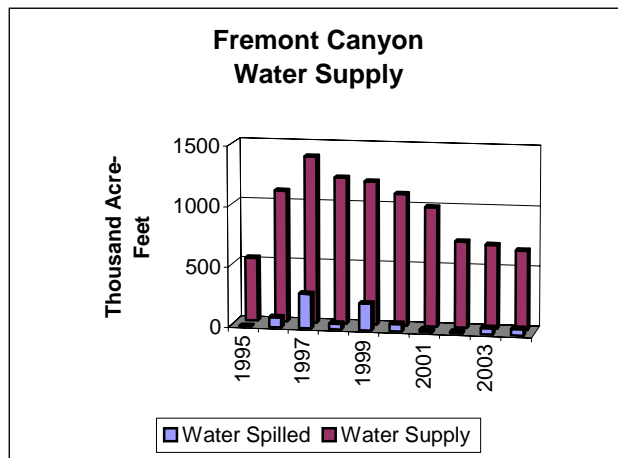
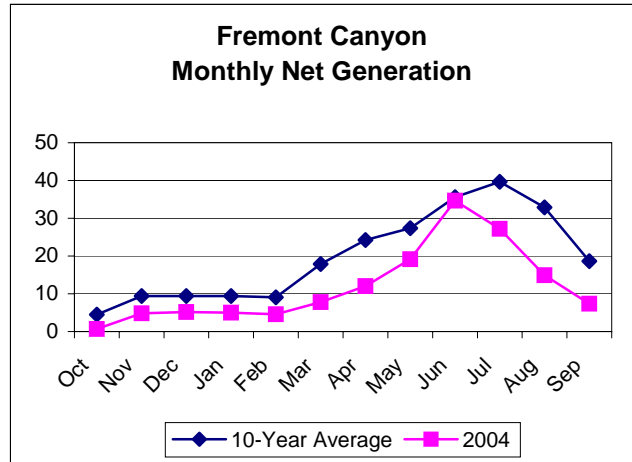
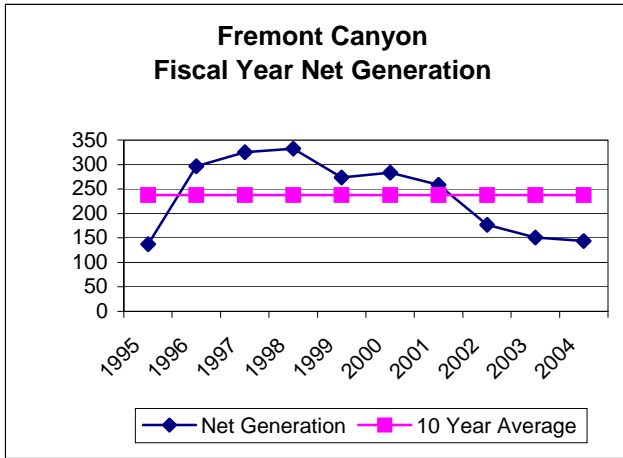
Fremont Canyon Ancillary Services	
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	Yes
Black Start	No
Voltage Support	Yes

Generators

Fremont Canyon Generators Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	24,000	9,400	33,400
2	24,000	9,400	33,400
2 Units	48,000	18,800	66,800

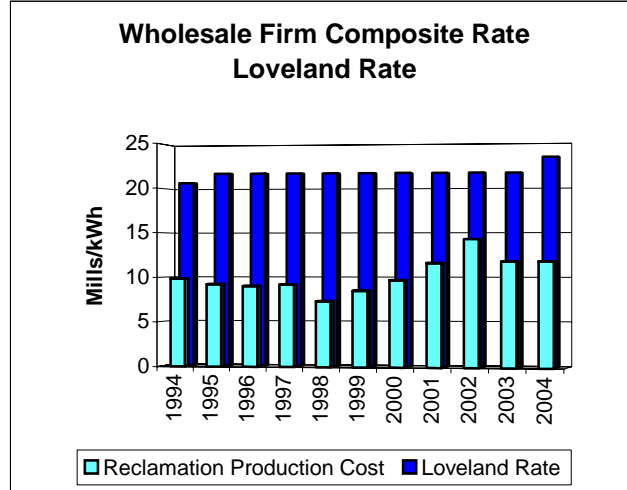
**Fremont Canyon Powerplant
30-100 MW**

Generation

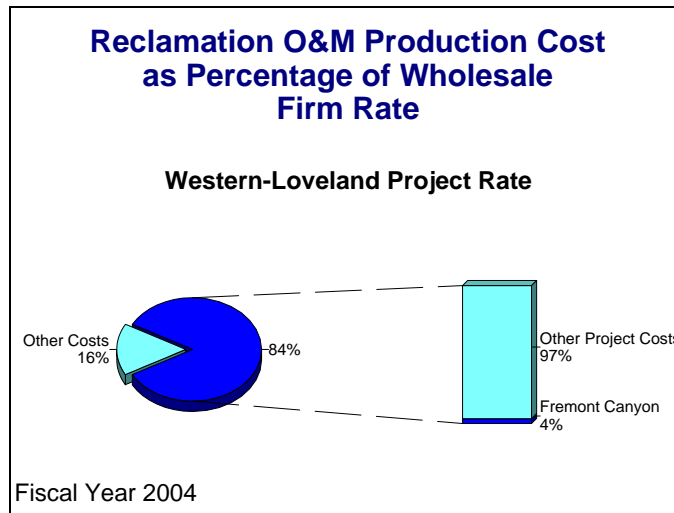


Prime Laboratory Benchmarks

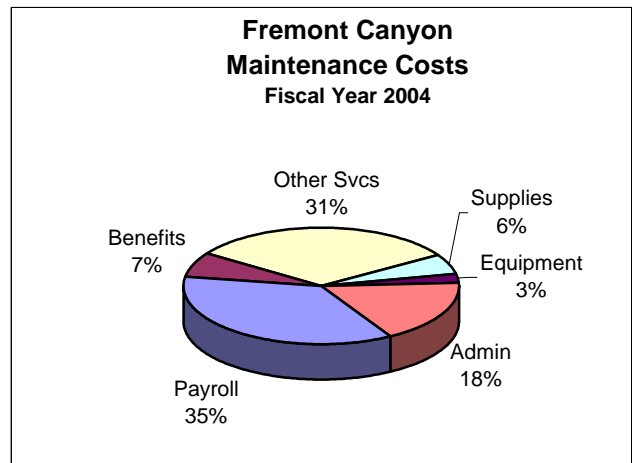
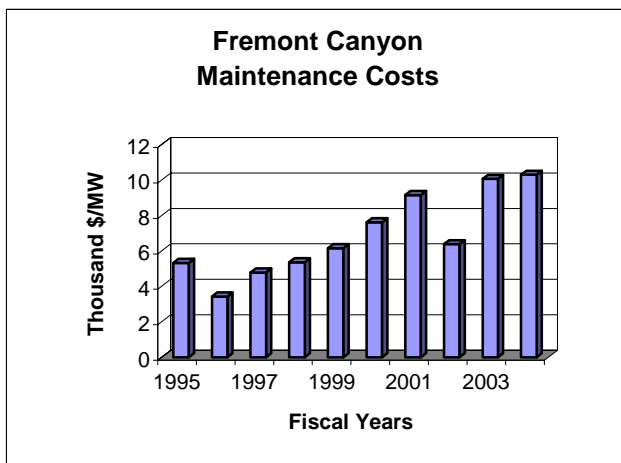
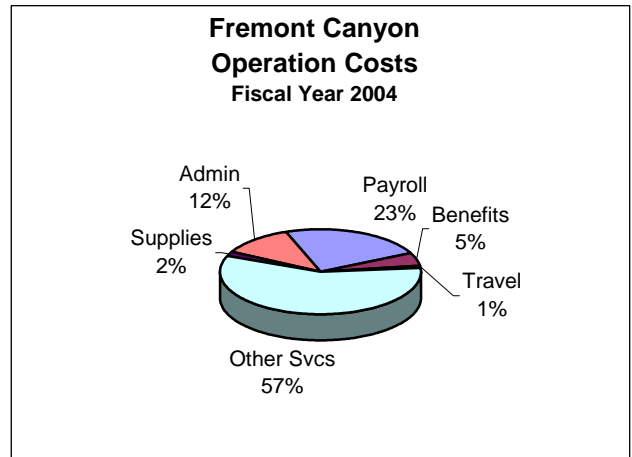
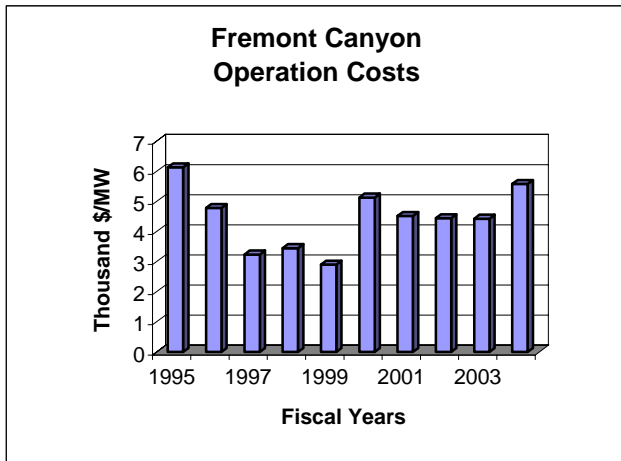
**Benchmark 1
Wholesale Firm Rate**



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

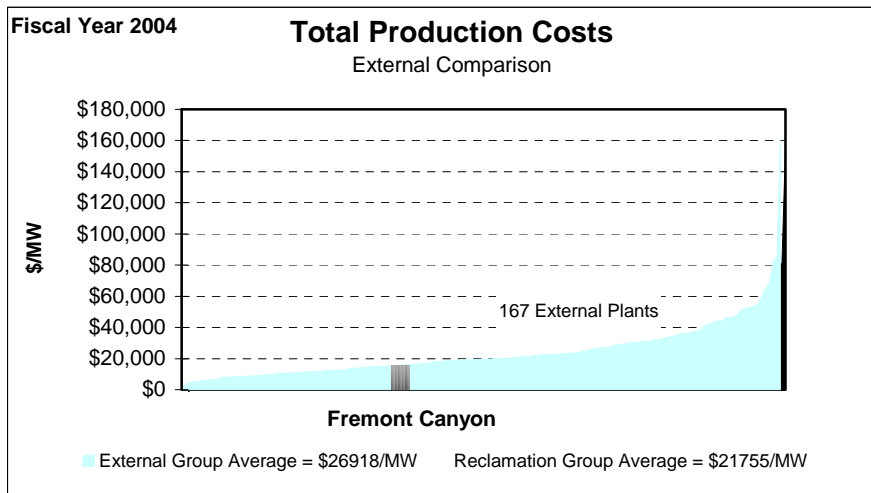
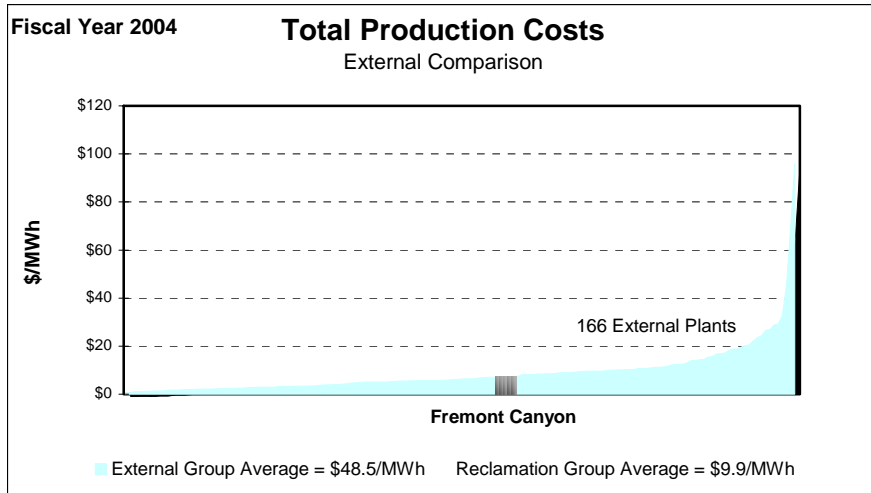
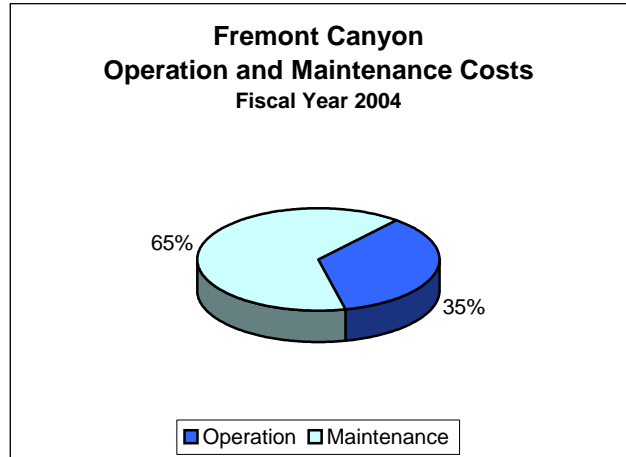
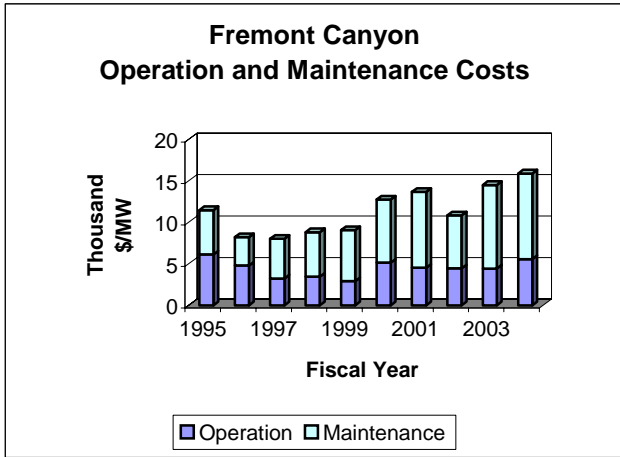


**Benchmark 3
Production Cost**



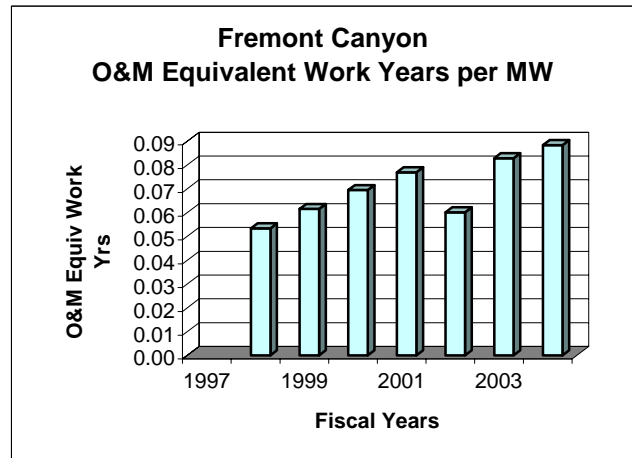
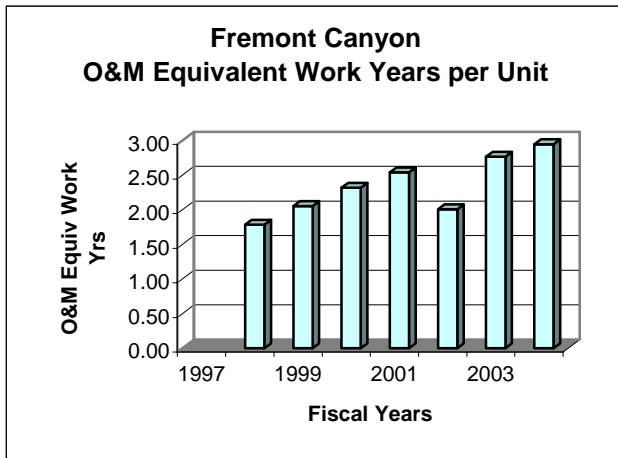
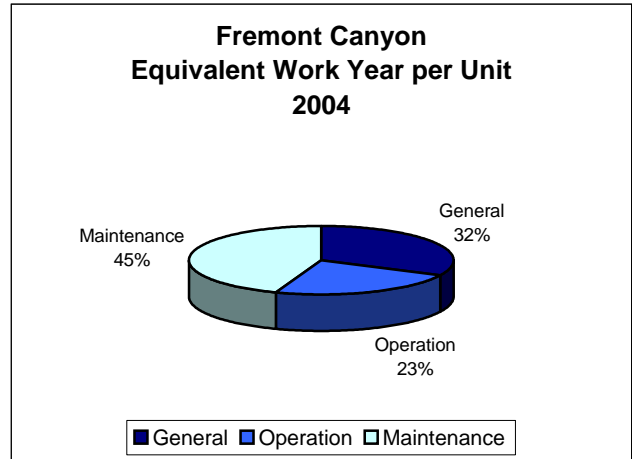
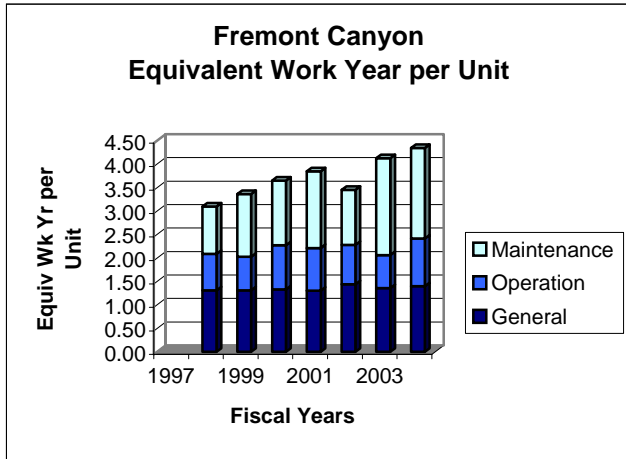
FY-03 – Maintenance costs include replacement of Unit 1 power cables.

**Benchmark 3
Production Cost**



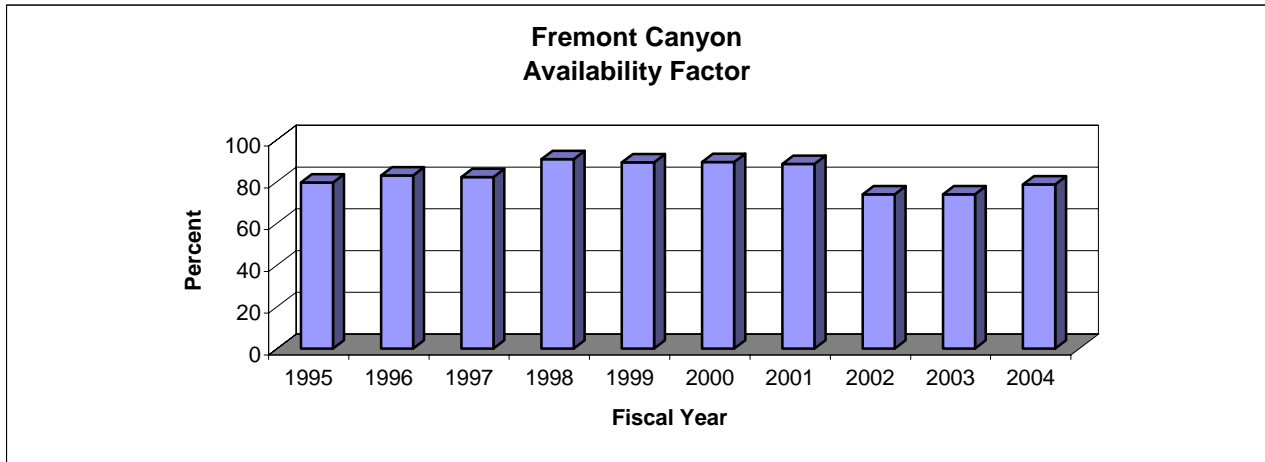
Benchmark 4
Workforce Deployment

Fremont Canyon 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	2.47	0.28	0.03	2.79	1.39	0.04
Operation	1.82	0.21	0.00	2.03	1.02	0.03
Maintenance	3.46	0.40	0.00	3.86	1.93	0.06
Total Staffing	7.75	0.89	0.03	8.68	4.34	0.13

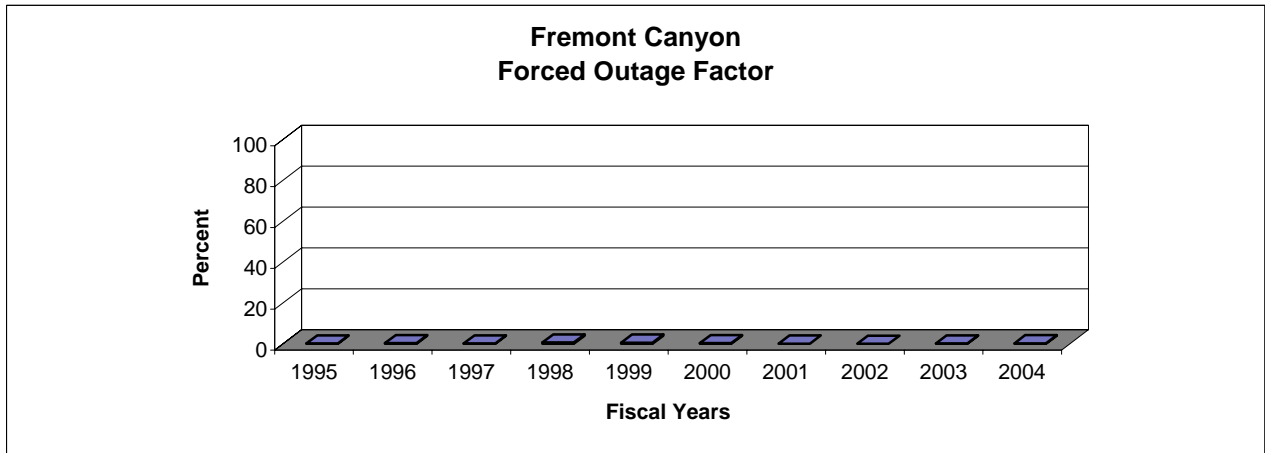


Distributive Accounts not available for FY-97

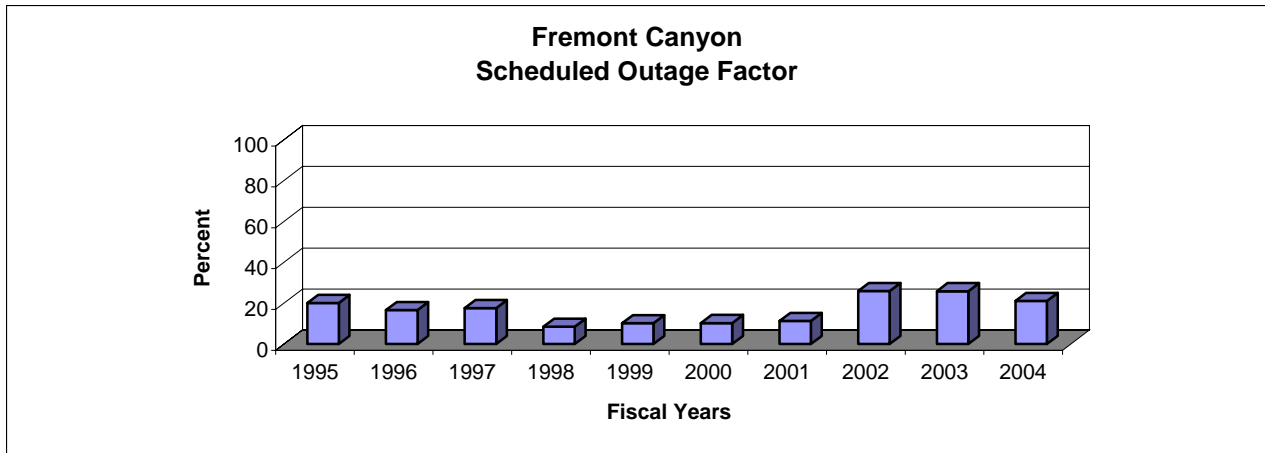
**Benchmark 5
Availability Factor**



**Benchmark 6
Forced Outage Factor**



**Benchmark 7
Scheduled Outage Factor**

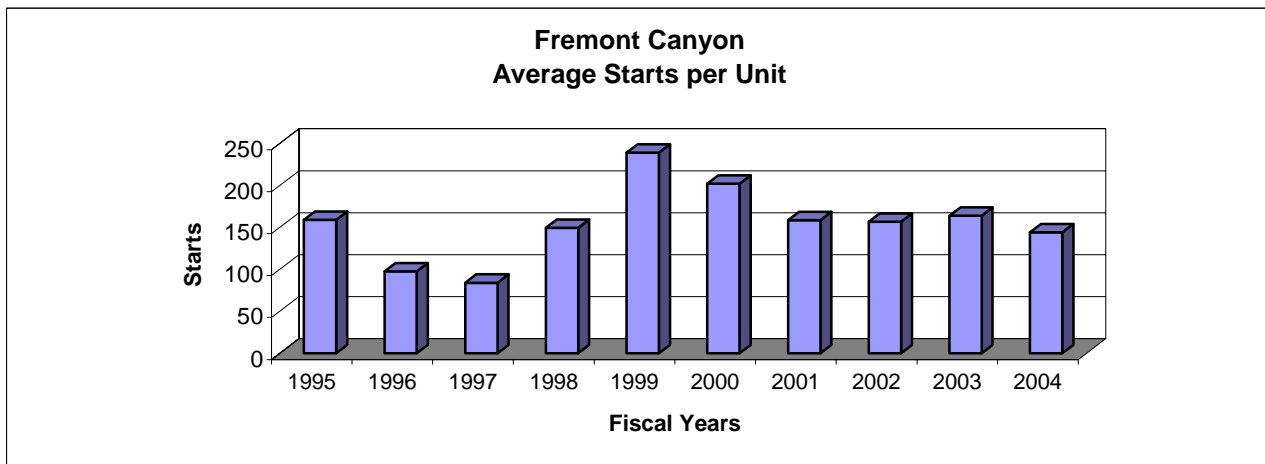


FY 91 to FY 97 - Extended maintenance

FY 02- Extended outage for significant draft tube and runner cavitation repairs to Unit 2 plus interruption of annual maintenance to complete critical maintenance at other facilities.

FY 03 - Extended outage for significant re-contouring of turbine runner buckets for Units 1 and 2.

Starts



**Fremont Canyon Powerplant
30-100 MW**

Benchmark Data Comparison					
Fiscal Year 2004	Fremont Canyon Powerplant	Reclamation Average 30-100 MW Group	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	21.7	Not Applicable	*21.06	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	2.93%	Not Applicable	13.5%	Not Applicable	Not Applicable
O&M Cost \$/MWh	7.39	7.90	2.77	48.48	1.23
O&M Costs \$/MW	15,876.47	19,931.46	7,316.97	26,917.84	2,951.22
O&M Equip Work Year per MW	0.09	0.11	0.04	Not Available	0.000
Availability Factor	78.6	84.3	86.9	**89.2	99.97
Forced Outage Factor	0.2	0.5	0.7	**1.9	0.00
Scheduled Outage Factor	21.1	15.3	12.4	**8.9	0.02

*Weighted by Net Generation

**2003 NERC Average

***Energy Information Administration Data