

Fremont Canyon Powerplant Pick-Sloan Missouri Basin Program

Ancillary Services

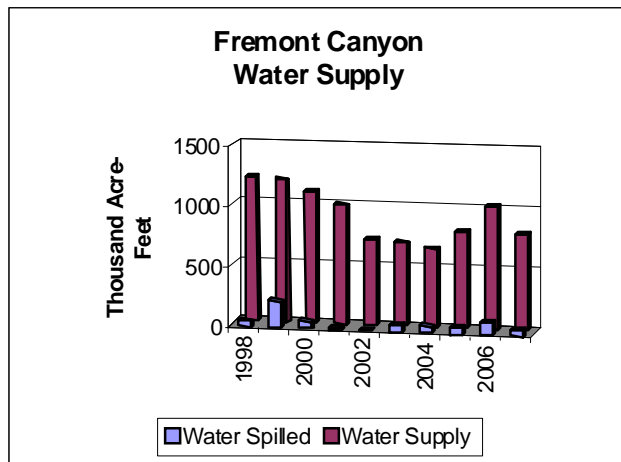
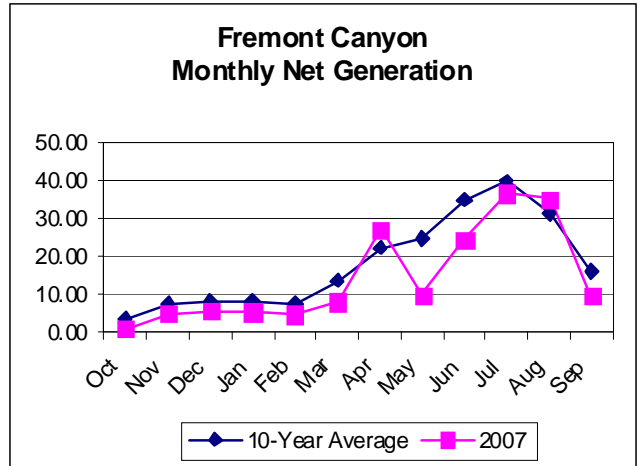
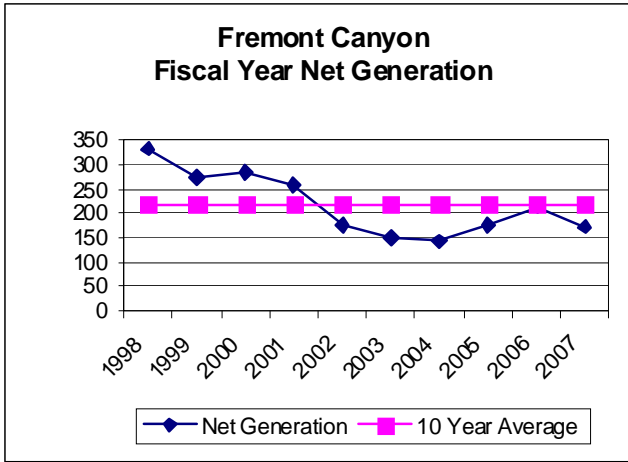
Fremont Canyon Ancillary Services	
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	Yes
Black Start	No
Voltage Support	Yes

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

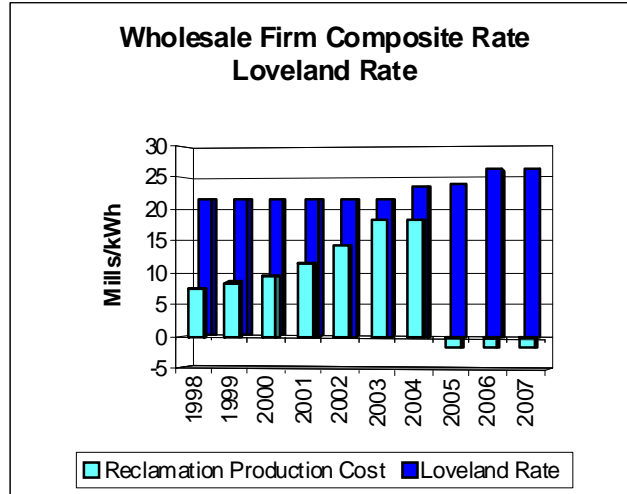
**Fremont Canyon Powerplant
30-100 MW**

Generation

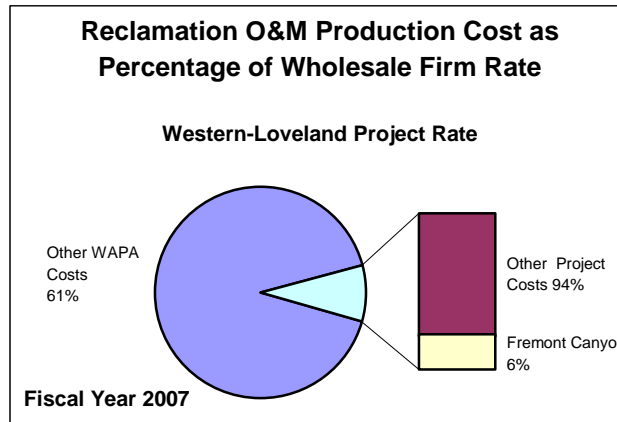


Prime Laboratory Benchmarks

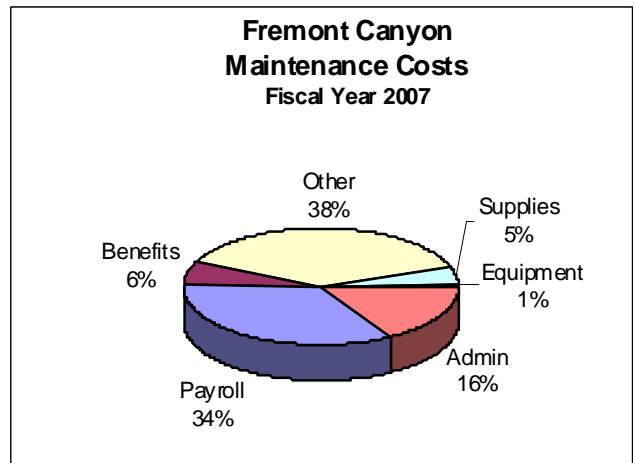
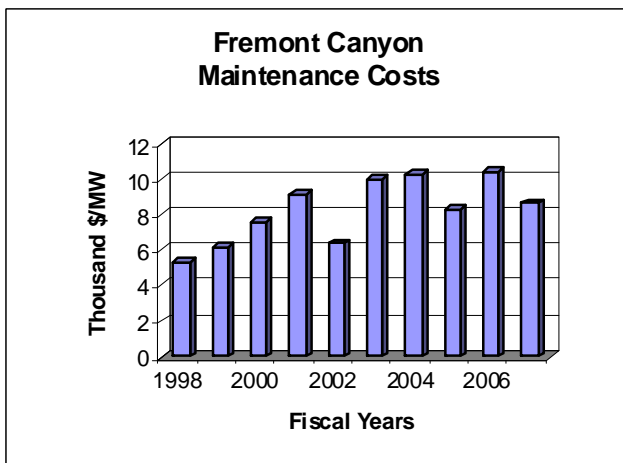
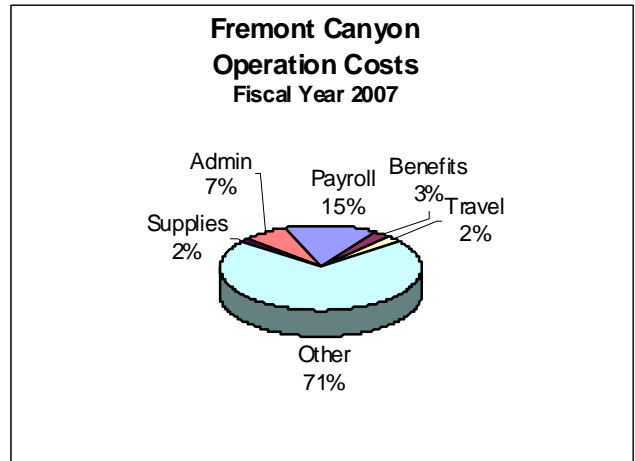
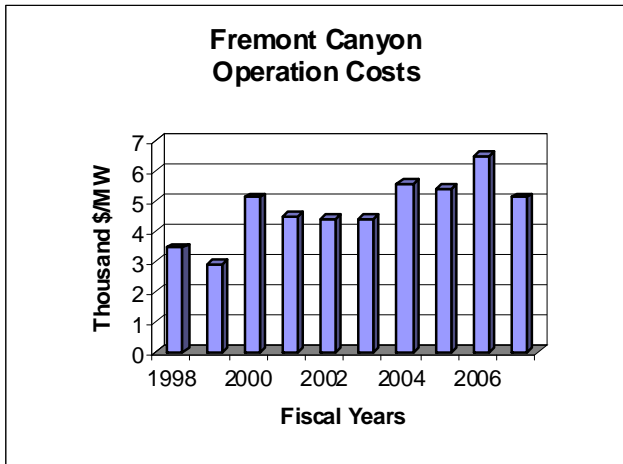
**Benchmark 1
Wholesale Firm Rate**



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

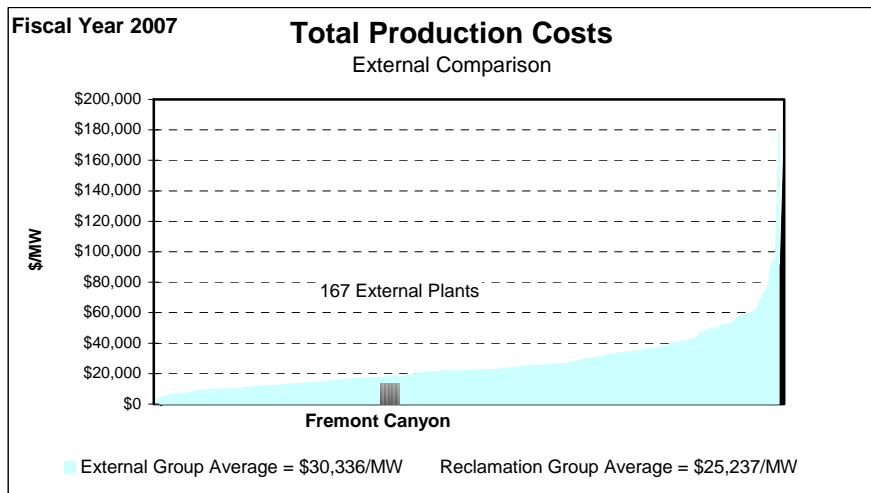
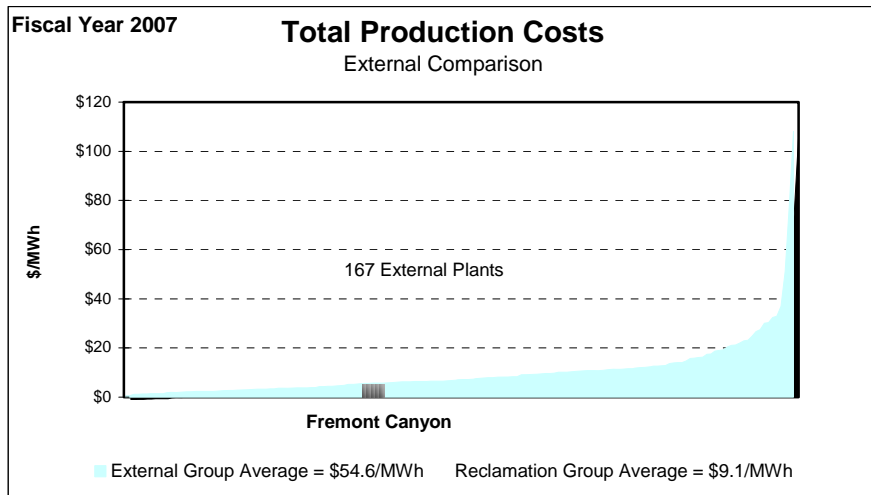
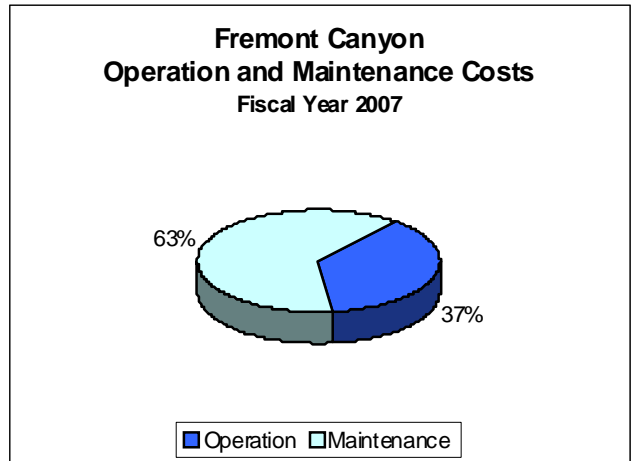
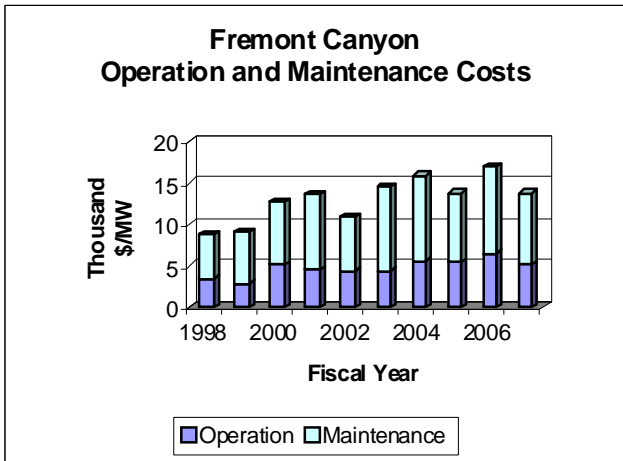


Benchmark 3
Production Costs



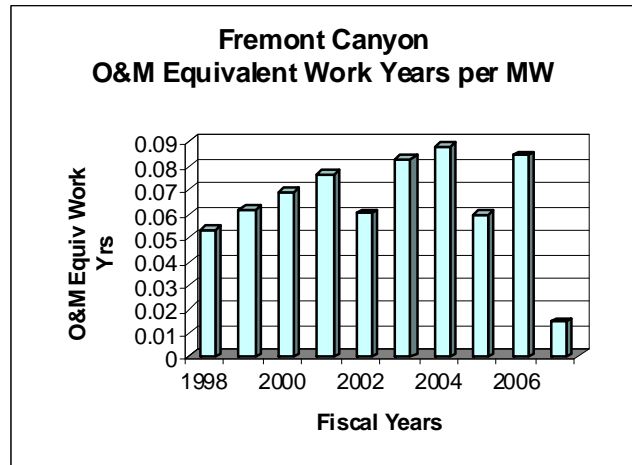
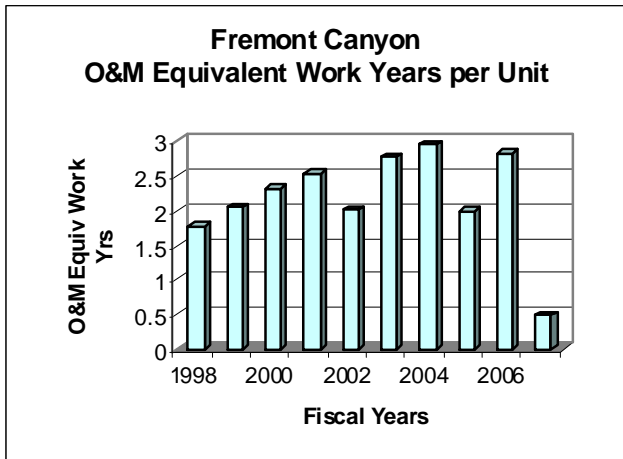
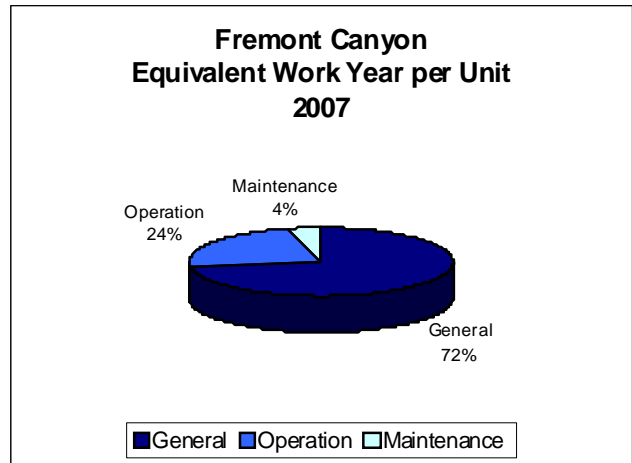
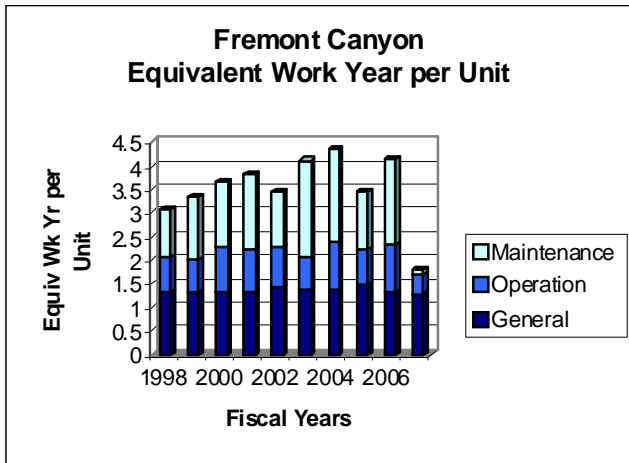
FY-2003 – Maintenance costs include replacement of Unit 1 power cables.

**Benchmark 3
Production Costs**

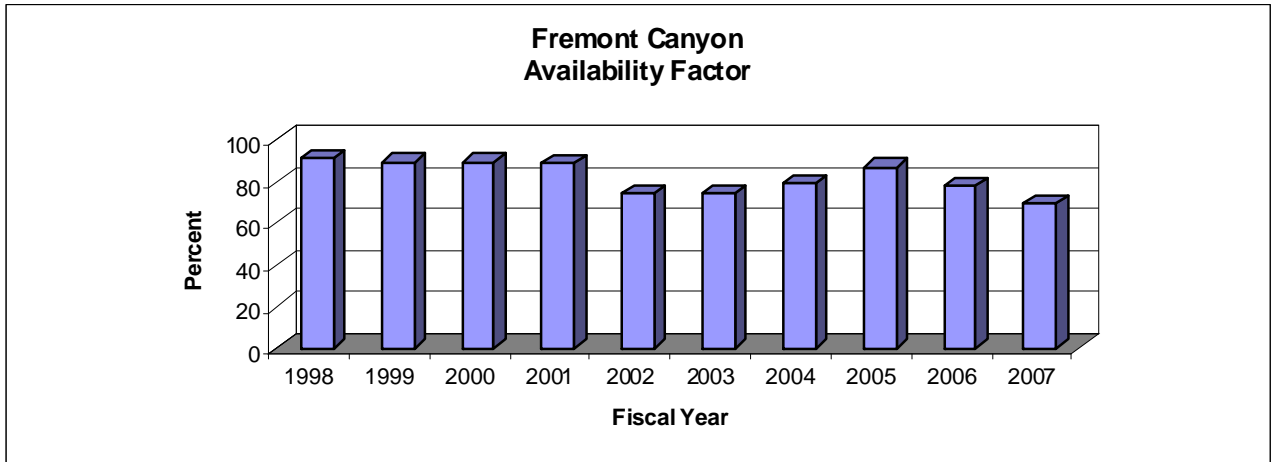


Benchmark 4
Workforce Deployment

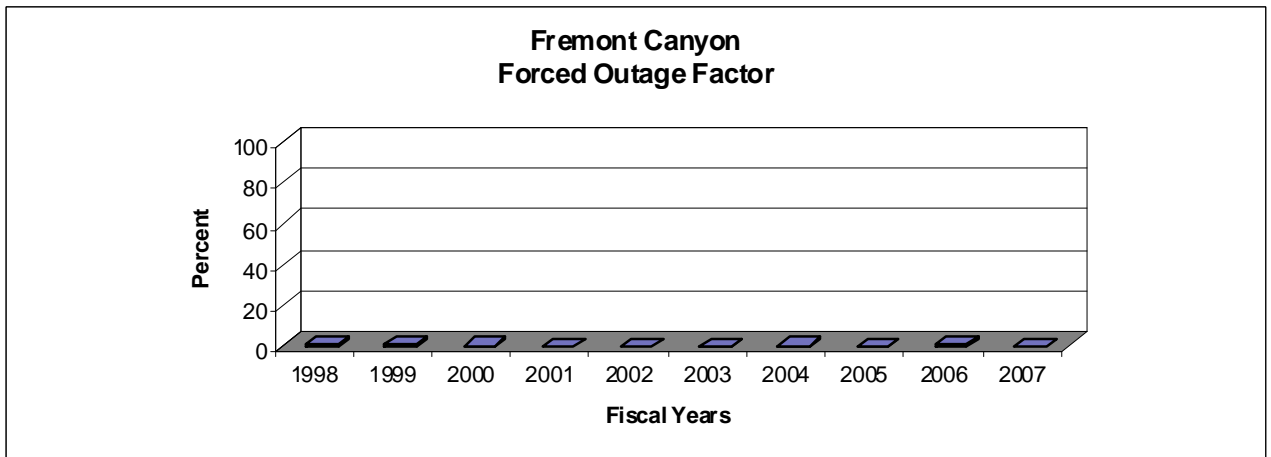
Fremont Canyon FY 2007 Equivalent Work Staffing Year Levels						
	Equivalent Work Year Staffing Charged to Powerplant	Leave Additive	Denver and Washington Equivalent Work Year Staffing Additive	Total Equivalent Work Year Allocated to Powerplant	Total Equivalent Staffing Work Year per Generating Unit	Total Equivalent Work Year Staffing per Megawatt
General	2.28	0.26	0.04	2.58	1.29	0.04
Operation	0.75	0.09	0.00	0.84	0.42	0.01
Maintenance	0.12	0.01	0.00	0.14	0.07	0.00
Total Staffing	3.16	0.36	0.04	3.55	1.78	0.05



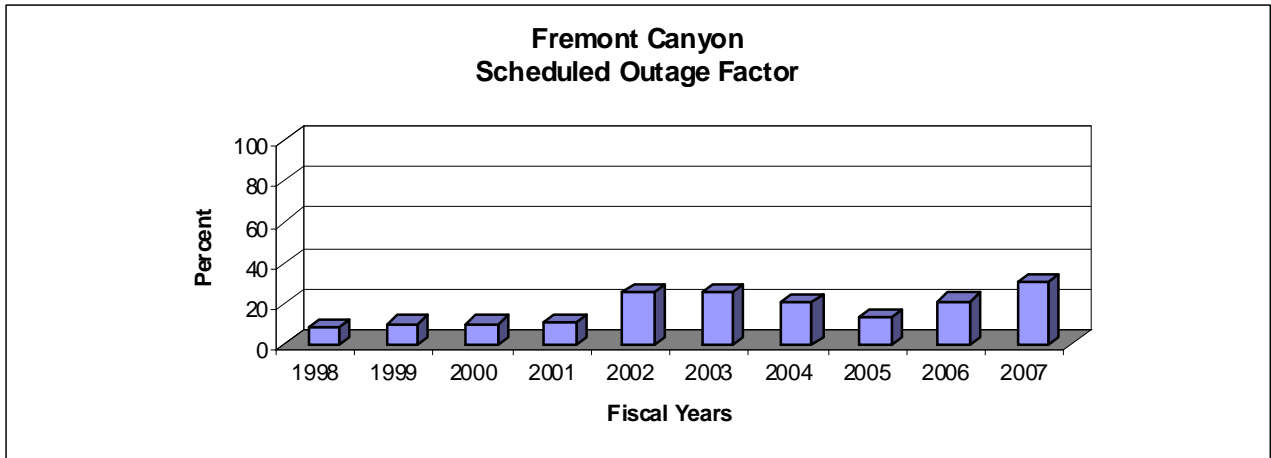
**Benchmark 5
Plant Availability Factor**



**Benchmark 6
Plant Forced Outage Factor**



**Benchmark 7
Plant Scheduled Outage Factor**



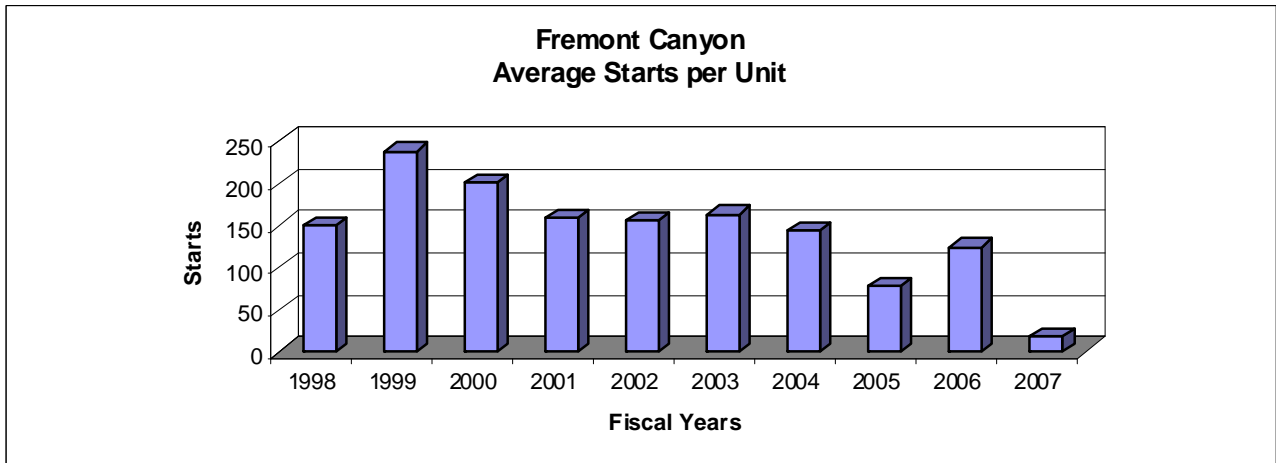
FY-1996 to FY-1997 – Extended maintenance.

FY-2002 – 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-2003 – Extended outage for significant re-contouring of Units 1 and 2 turbine runner buckets.

FY-2004 – Unit 2 power cable replacement and CO₂ system replacement.

Unit Starts



**Fremont Canyon Powerplant
30-100 MW**

Benchmark Data Comparison					
Fiscal Year 2007	Fremont Canyon Powerplant	Reclamation Average 30-100 MW Group	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	23.9	Not Applicable	*22.45	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	2.10%	Not Applicable	12.1%	Not Applicable	Not Applicable
O&M Cost \$/MWh	5.35	7.85	2.76	***54.63	1.00
O&M Costs \$/MW	13,832	24,132	7,847	***30,336	2,897
O&M Equip Work Year per MW	0.01	0.10	0.03	Not Available	0.0
Availability Factor	69.2	84.3	82.3	**88.64	98.5
Forced Outage Factor	0.0	0.5	2.6	**2.61	0.0
Scheduled Outage Factor	30.8	15.3	15.1	**8.74	0.0

*Weighted by Net Generation

**2006 NERC Average

***Energy Information Administration Data