

Ancillary Services

Glen Canyon Ancillary Services

Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	Yes
Black Start	Yes
Voltage Support	Yes

Generators

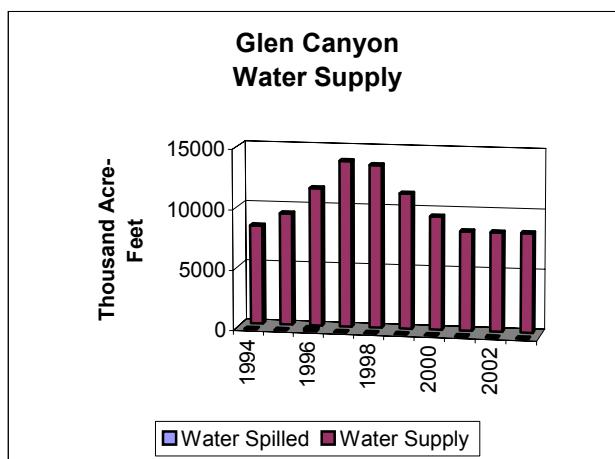
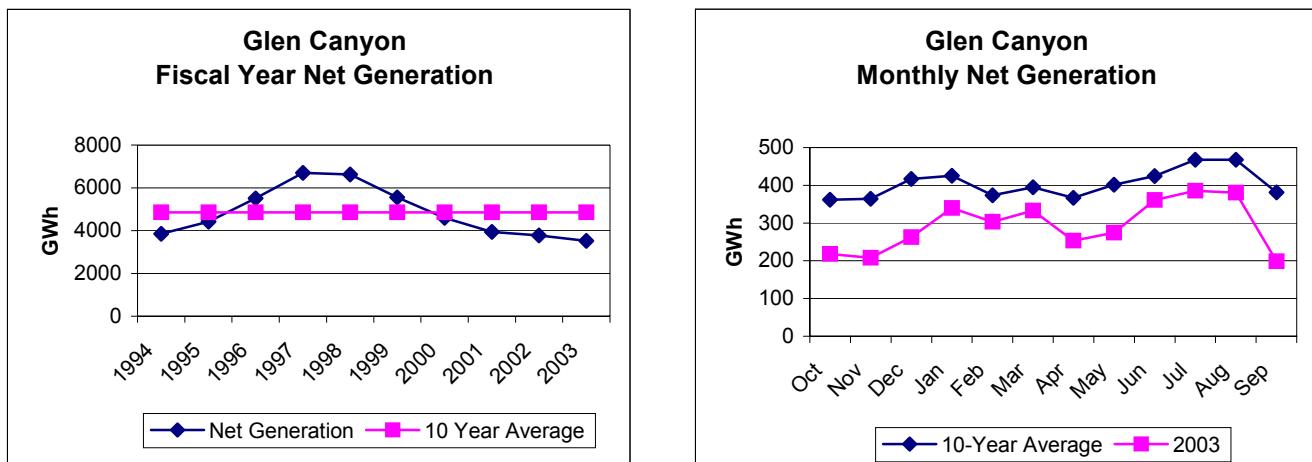
Glen Canyon Generators

Existing Number and Capacity

Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	118,750	46,250	165,000
2	118,750	38,250	157,000
3	118,750	46,250	165,000
4	118,750	38,250	157,000
5	118,750	46,250	165,000
6	118,750	46,250	165,000
7	118,750	38,250	157,000
8	118,750	46,250	165,000
8 Units	950,000	346,000	1,296,000

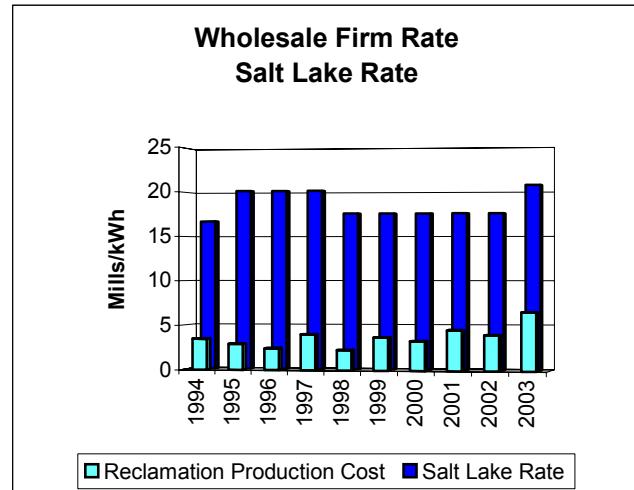
Glen Canyon Powerplant
>500 MW

Generation

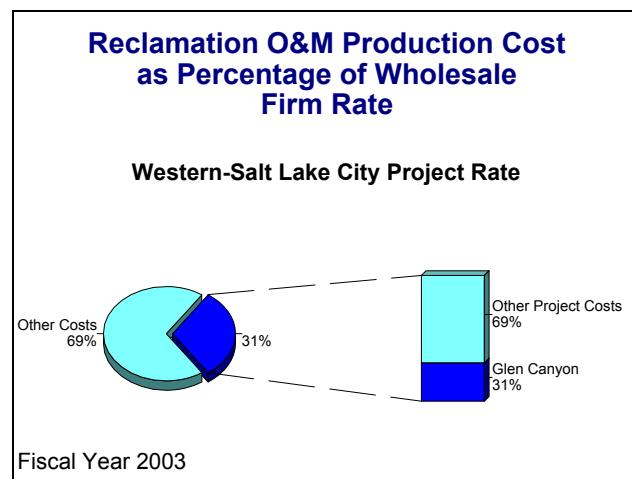


Prime Laboratory Benchmarks

Benchmark 1 Wholesale Firm Rate

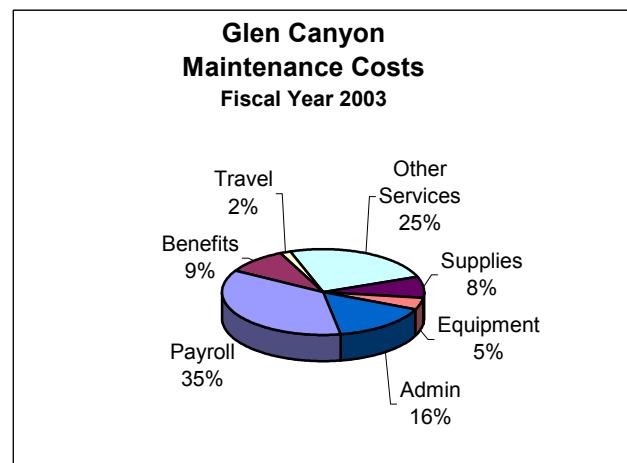
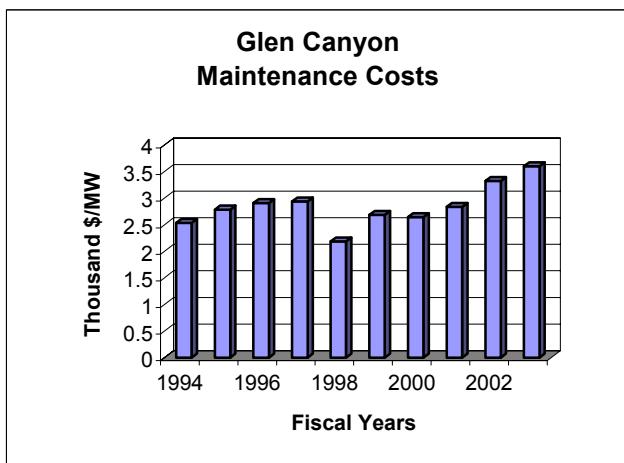
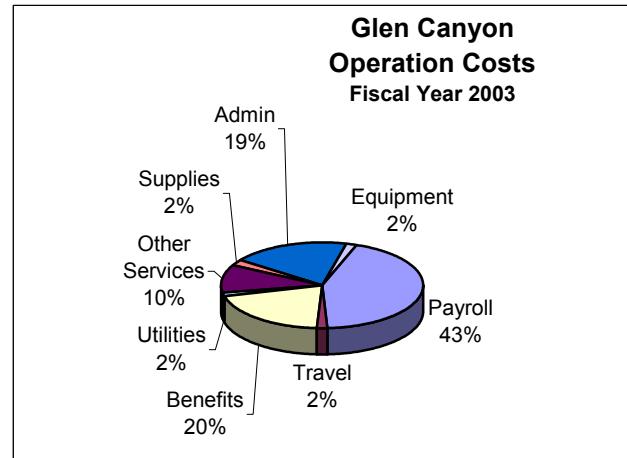
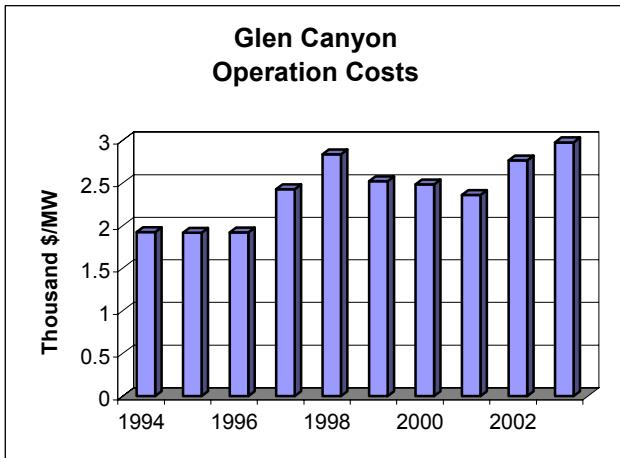


Benchmark 2 Reclamation's Production Cost as Percentage of Wholesale Firm Rate

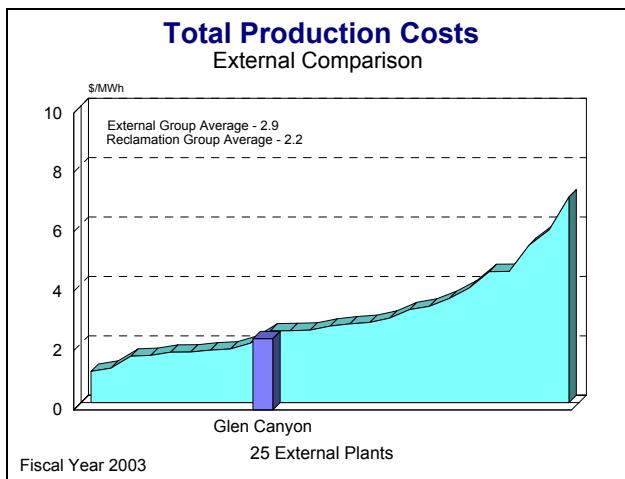
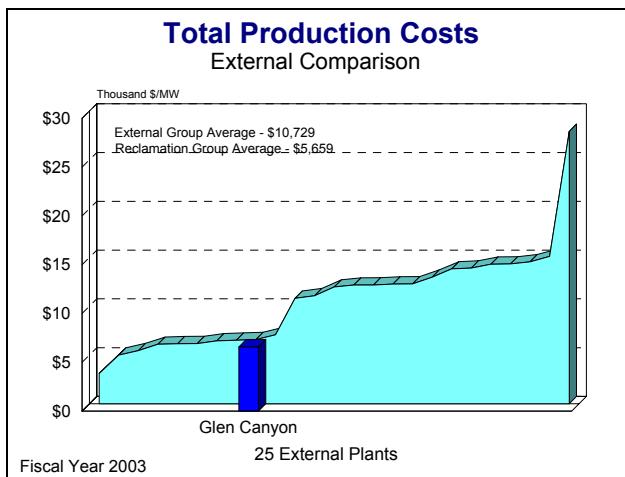
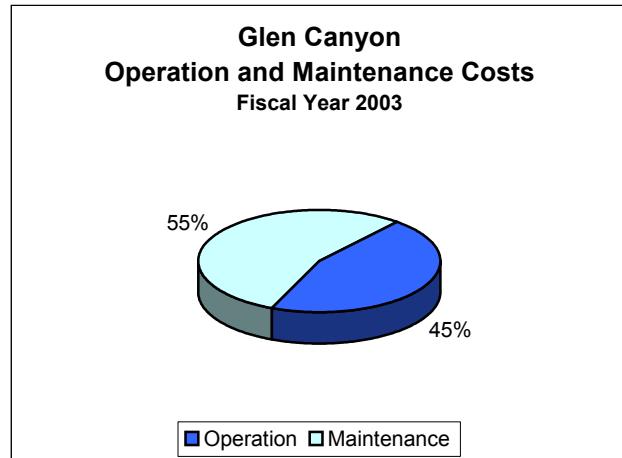
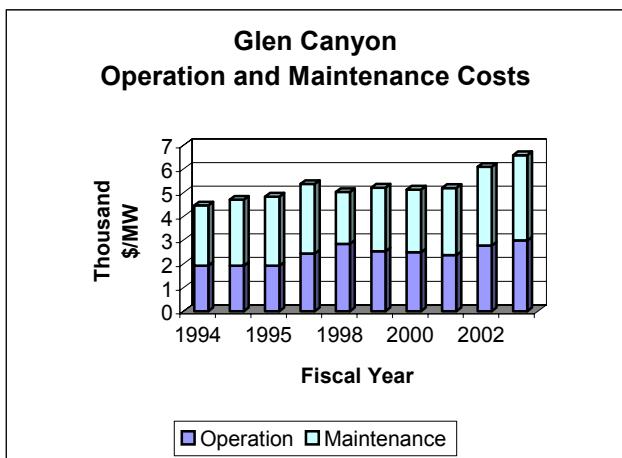


Glen Canyon Powerplant
>500 MW

Benchmark 3
Production Cost

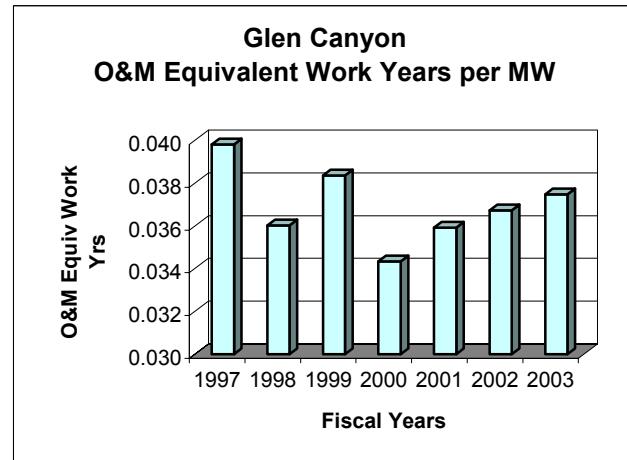
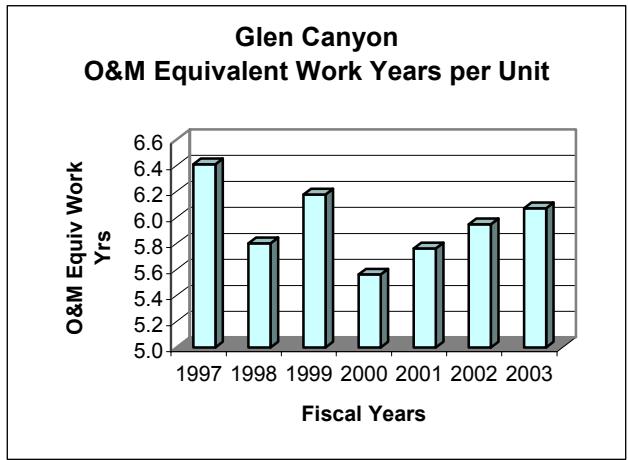
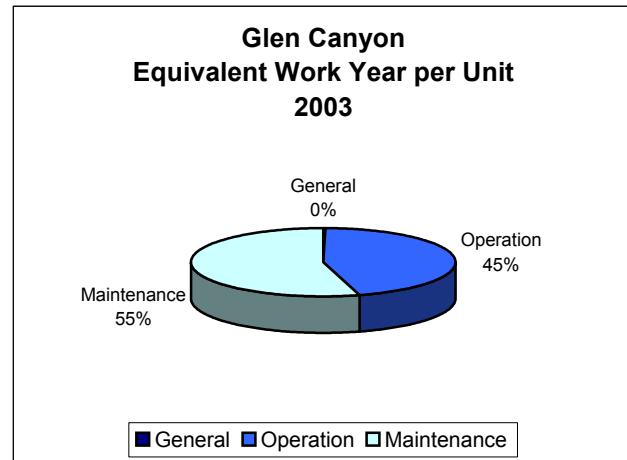
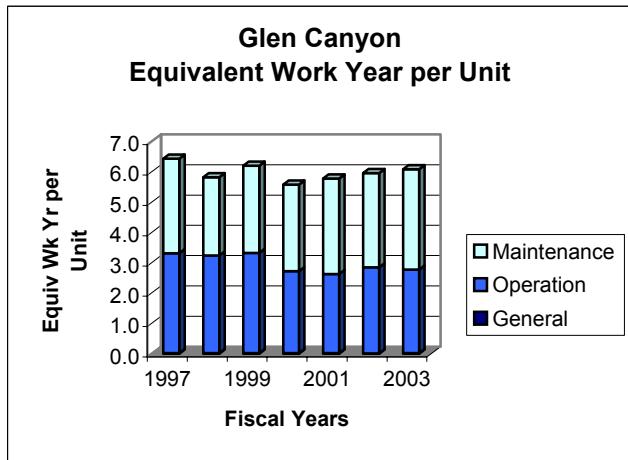


Benchmark 3
Production Cost

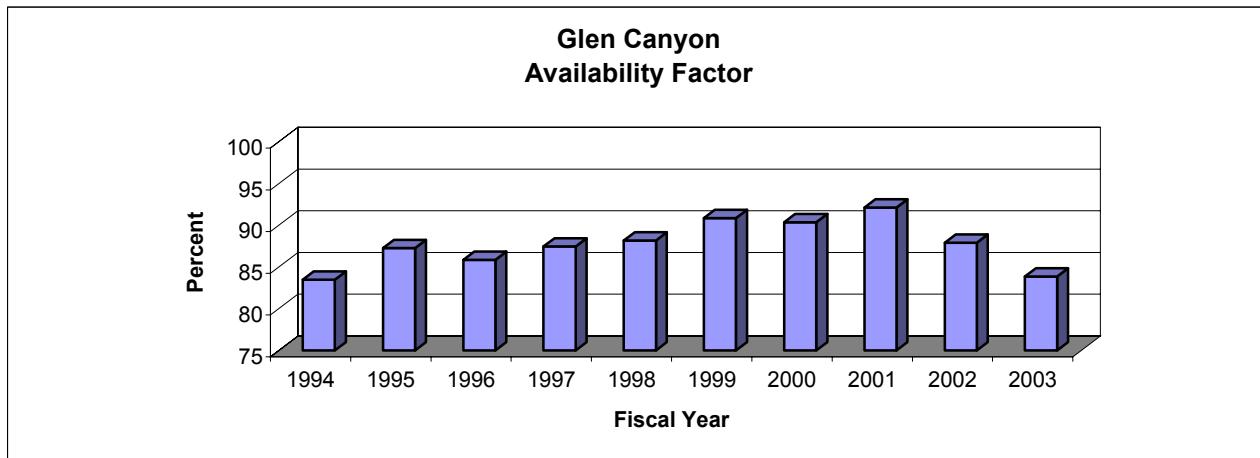


Benchmark 4
Workforce Deployment

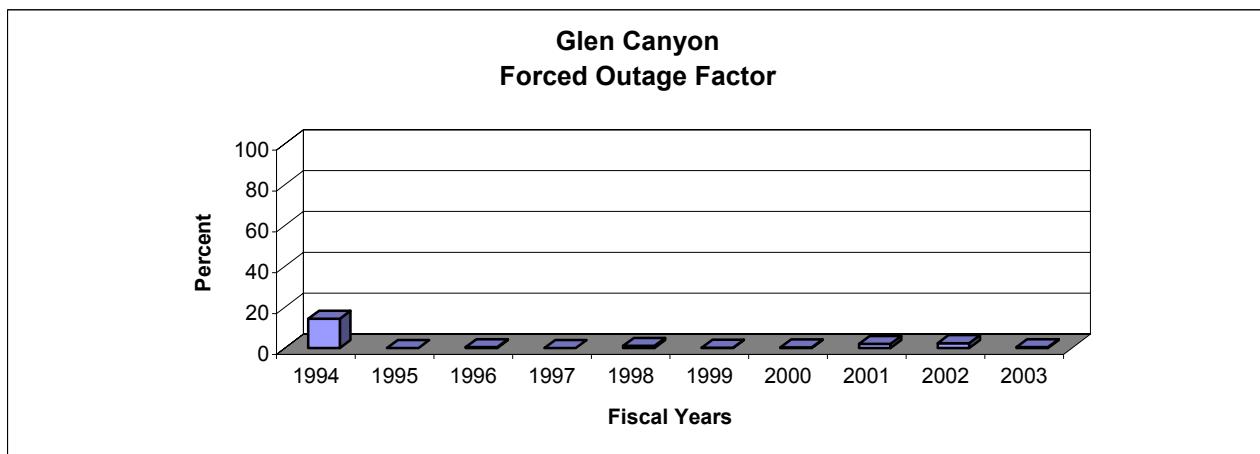
Glen Canyon 2003 Equivalent Work Year Levels						
	Equiv Work Year Charged to Powerplant	Leave Additive	Denver and Washington Equiv Work Year Additive	Total Equiv Work Year Allocated to Powerplant	Total Equiv Work year per Generating Unit	Total Equiv Work Year per Megawatt
General	0	0	0.17	0.17	0.02	0
Operation	19.71	2.35	0	22.06	2.76	0.02
Maintenance	23.67	2.83	0	26.5	3.31	0.02
Total Staffing	43.37	5.18	0.17	48.73	6.09	0.04



Benchmark 5
Availability Factor

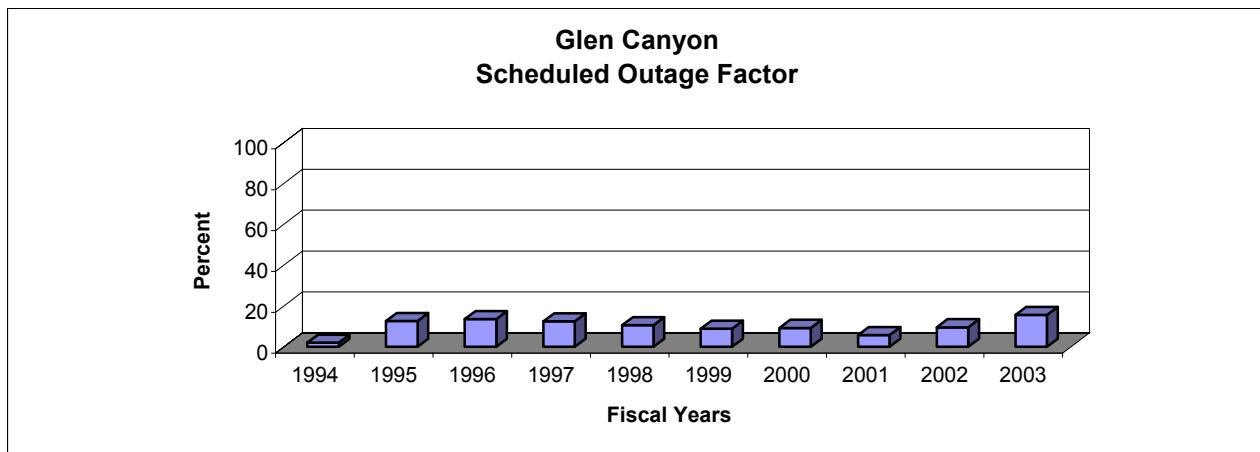


Benchmark 6
Forced Outage Factor

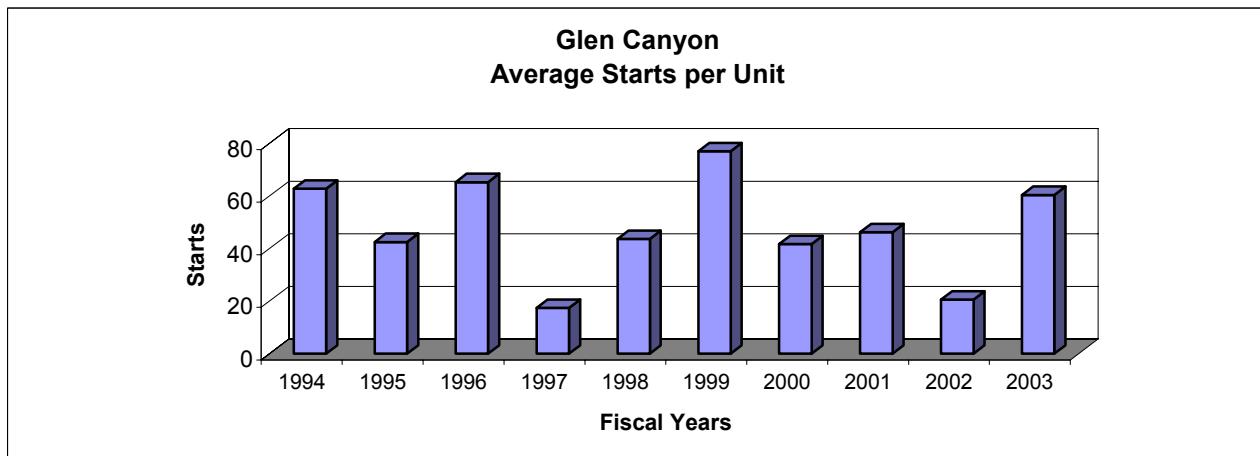


FY-94 - Unit 4 stator and lower guide bearing failure

Benchmark 7
Scheduled Outage Factor



Starts



Benchmark Data Comparison

Fiscal Year 2003	Glen Canyon Powerplant	Reclamation Average 500+ MW Group	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	20.7	Not Applicable	*23.1	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	9.4%	Not Applicable	12.0%	Not Applicable	Not Applicable
O&M Cost \$/MWh	2.4	1.6	2.7	2.9	1.1
O&M Costs \$/MW	6,578	4,466	7,315	10,729	3,108
O&M Equiv Work Year per MW	0.04	0.03	0.04	Not Available	0.01
Availability Factor	83.9	82.5	83.6	**88.9	99.1
Forced Outage Factor	0.5	1.7	1.5	**2.4	0.0
Scheduled Outage Factor	15.7	15.8	14.9	**8.7	0.0

*Weighted by Net Generation

**2002 NERC Average