

Ancillary Services

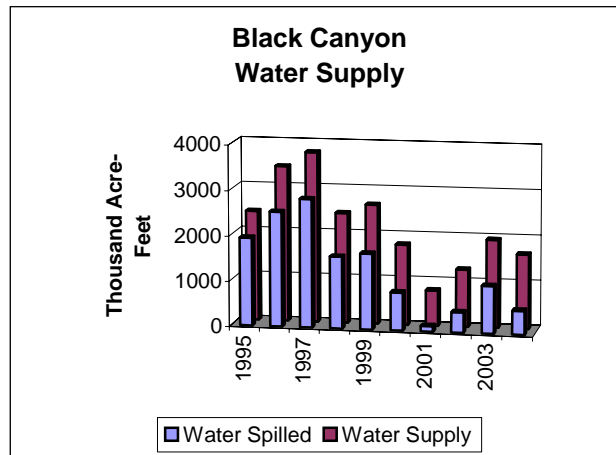
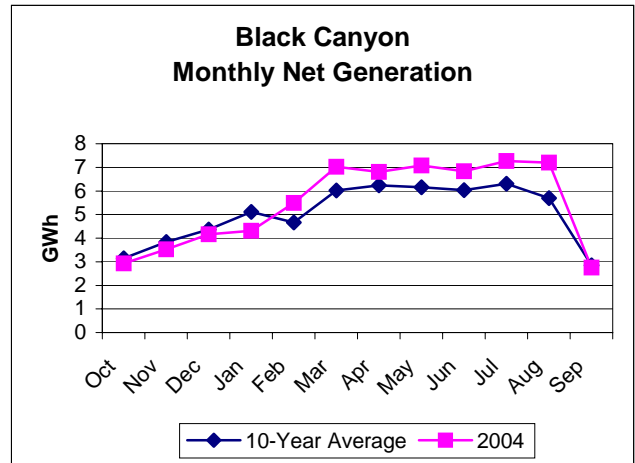
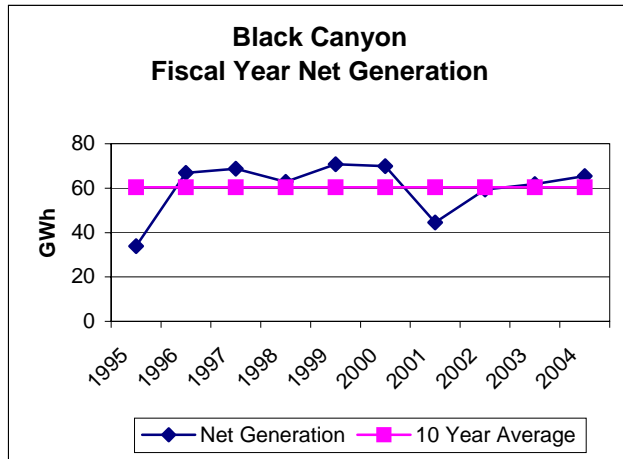
Black Canyon Ancillary Services	
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	Yes
Black Start	Yes
Voltage Support	Yes

Generators

Black Canyon Generators			
Existing Number and Capacity			
Unit #	Original Nameplate (kW)	Increased (kW)	Present Name Plate (kW)
1	4,000	1,100	5,100
2	4,000	1,100	5,100
2 Units	8,000	2,200	10,200

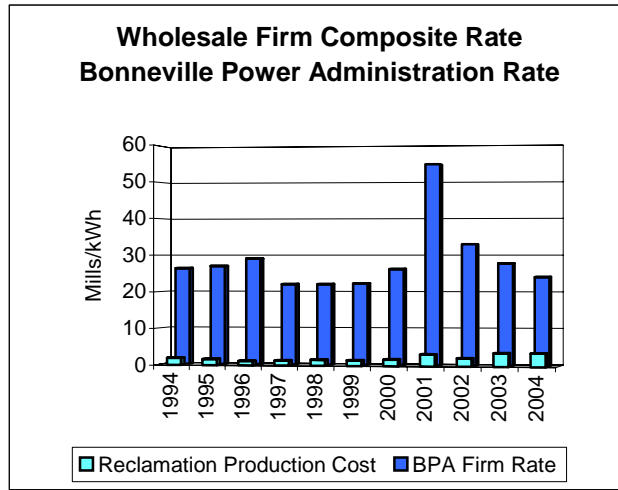
**Black Canyon Powerplant
0-10 MW**

Generation

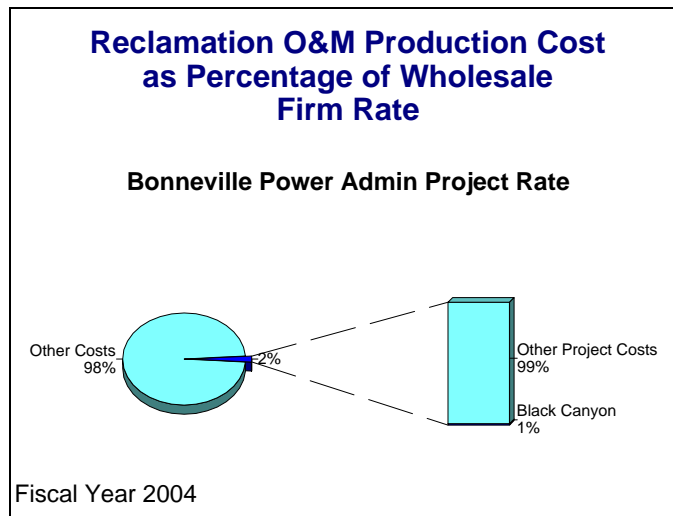


Prime Laboratory Benchmarks

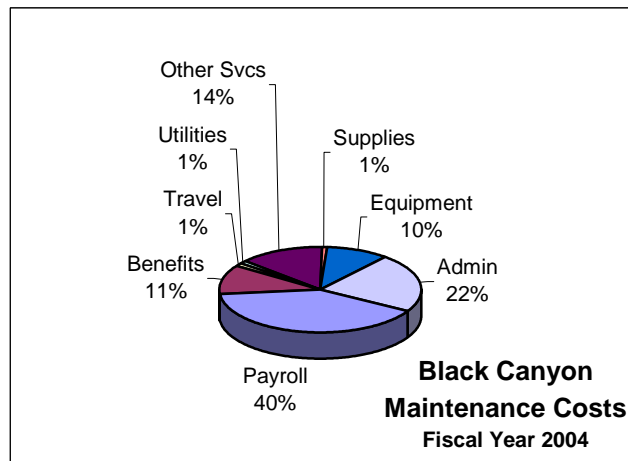
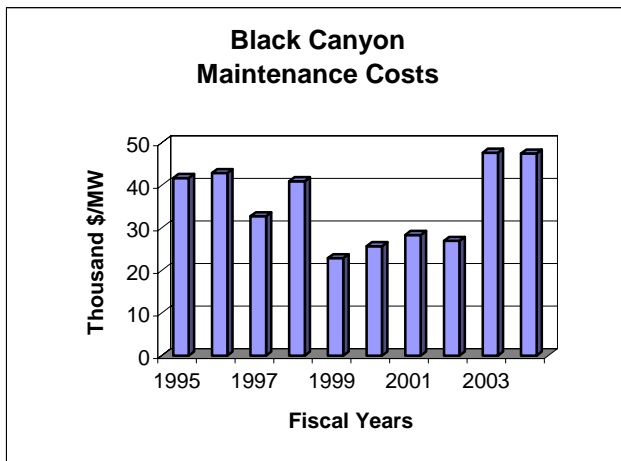
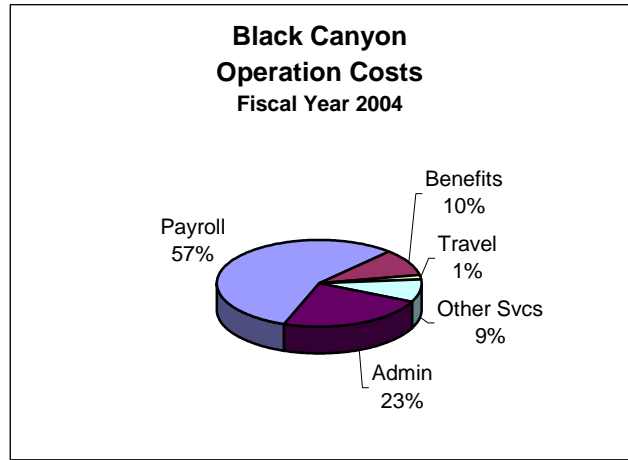
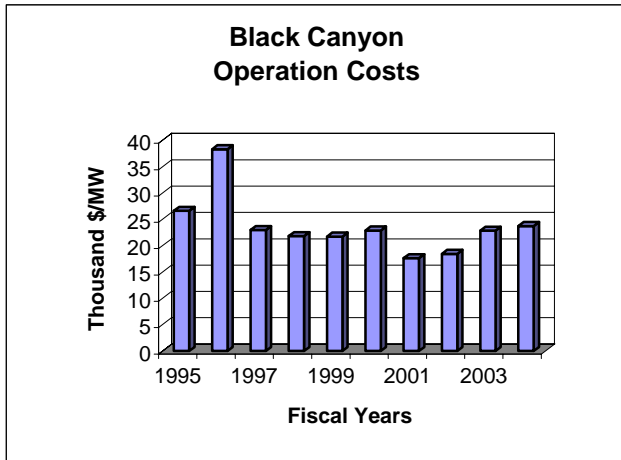
**Benchmark 1
Wholesale Firm Rate**



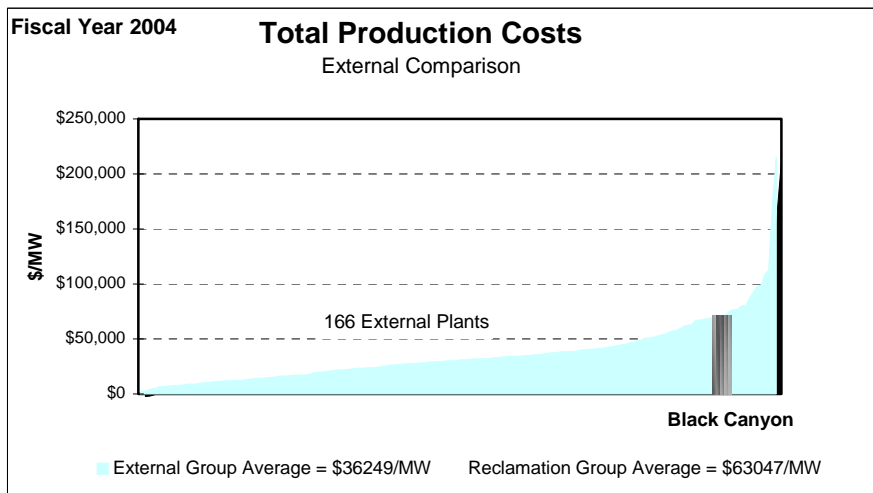
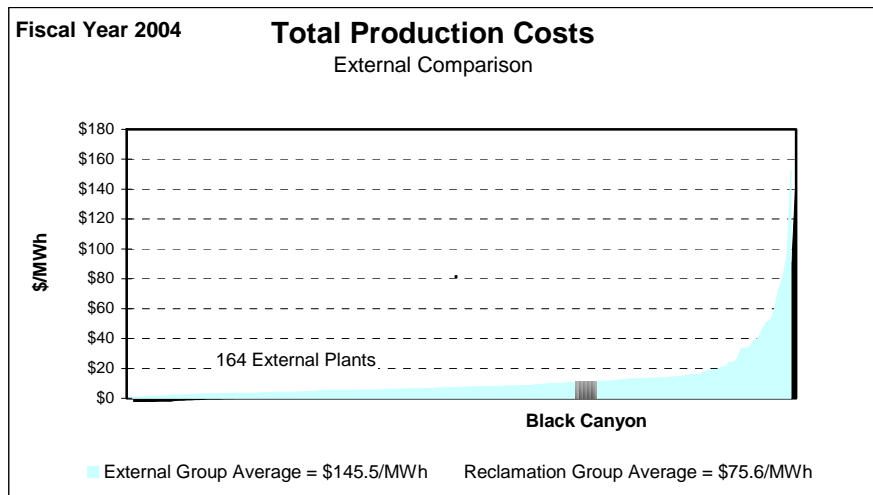
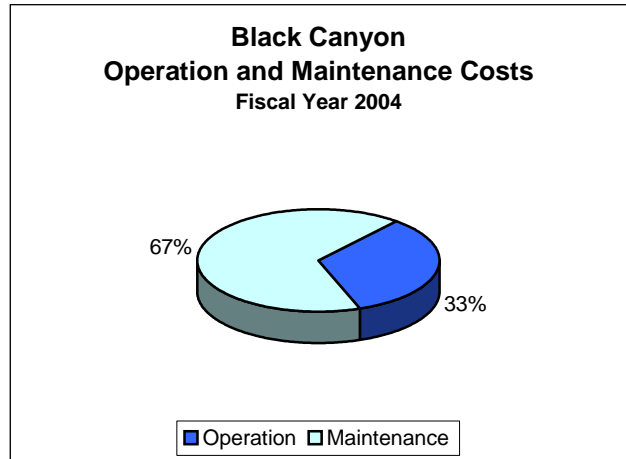
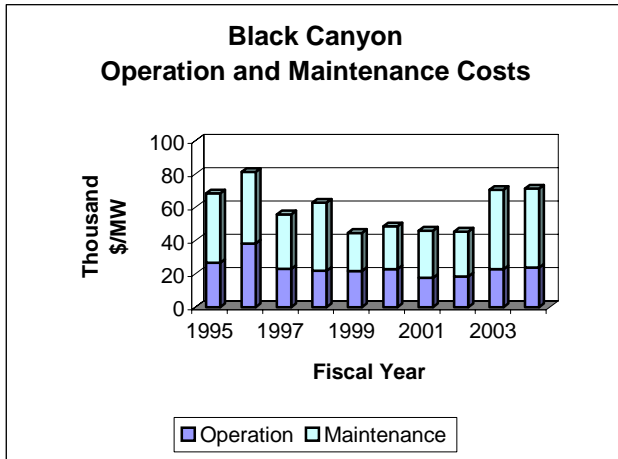
**Benchmark 2
Reclamation's Production Cost as Percentage of Wholesale Firm Rate**



**Benchmark 3
Production Cost**

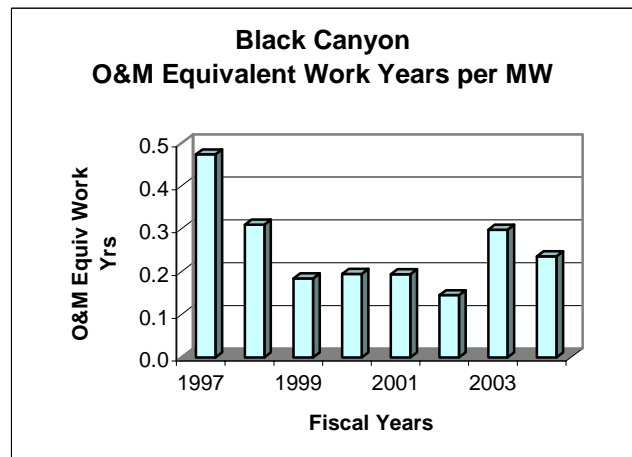
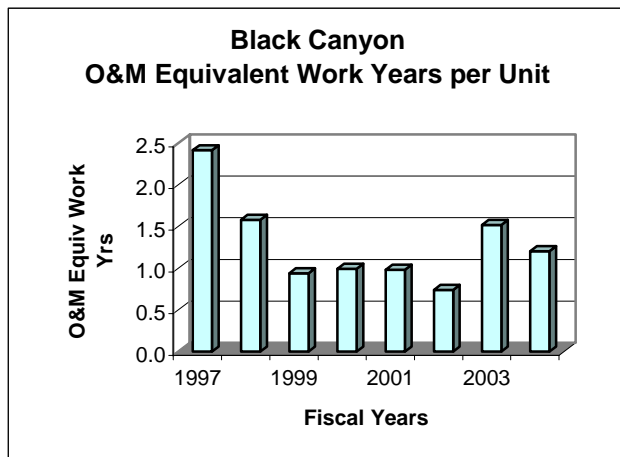
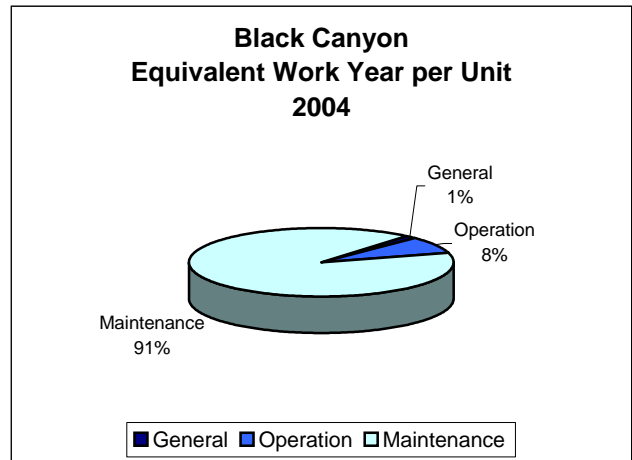
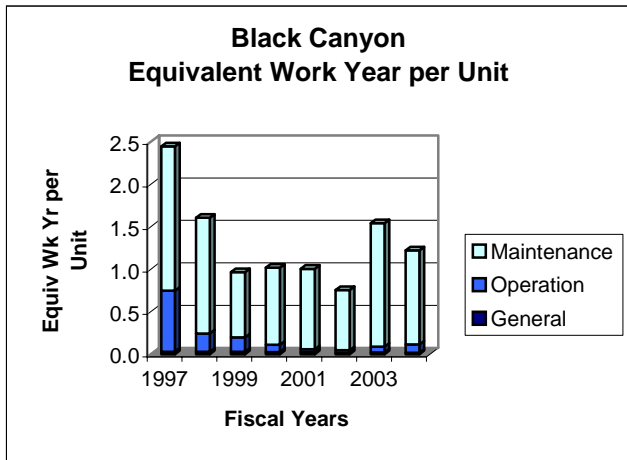


**Benchmark 3
Production Cost**

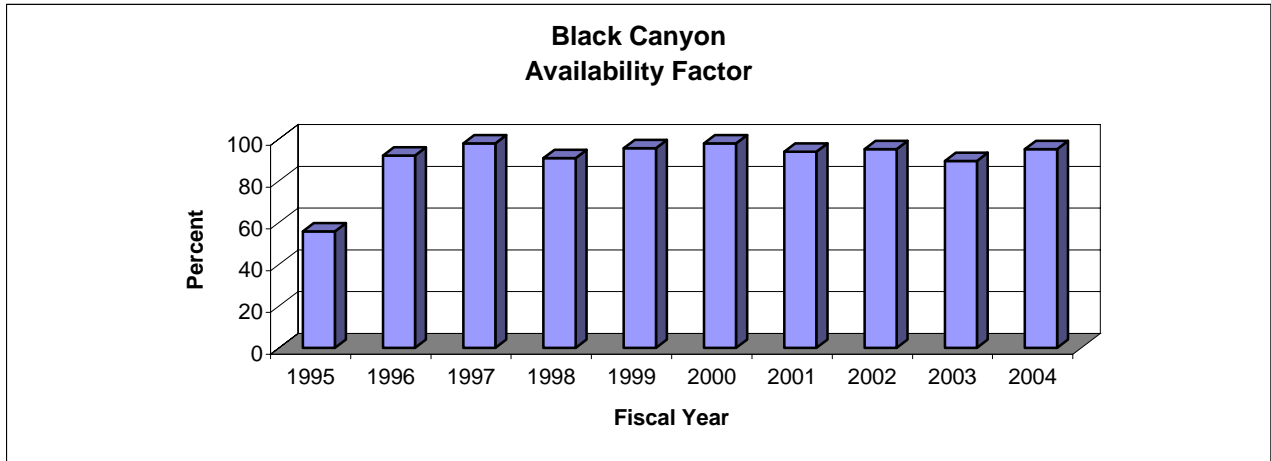


**Benchmark 4
Workforce Deployment**

Black 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	0.00	0.00	0.03	0.03	0.02	0.00
Operation	0.18	0.02	0.00	0.20	0.10	0.02
Maintenance	2.00	0.21	0.00	2.21	1.11	0.22
Total Staffing	2.18	0.23	0.03	2.44	1.22	0.24

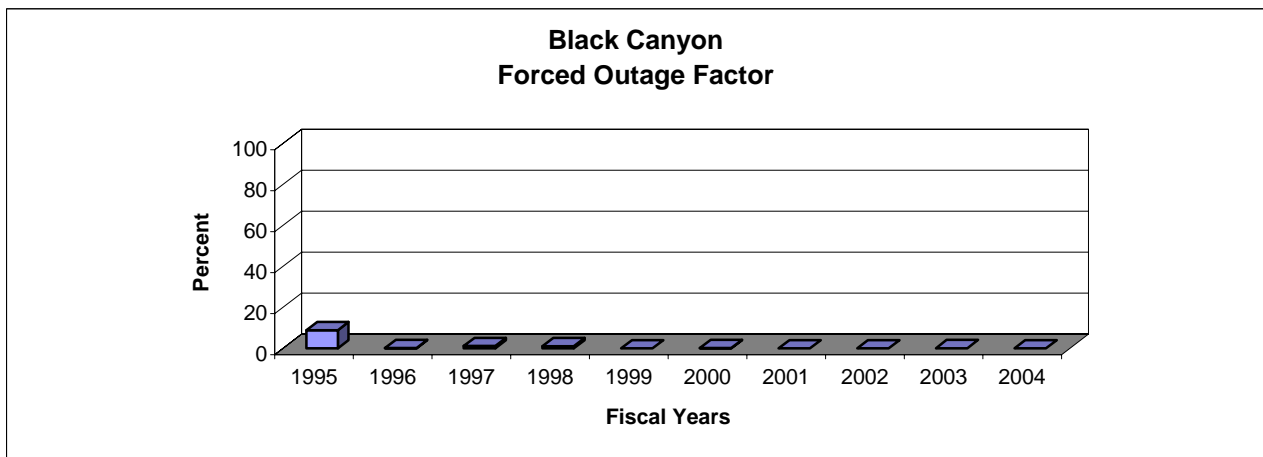


**Benchmark 5
Availability Factor**



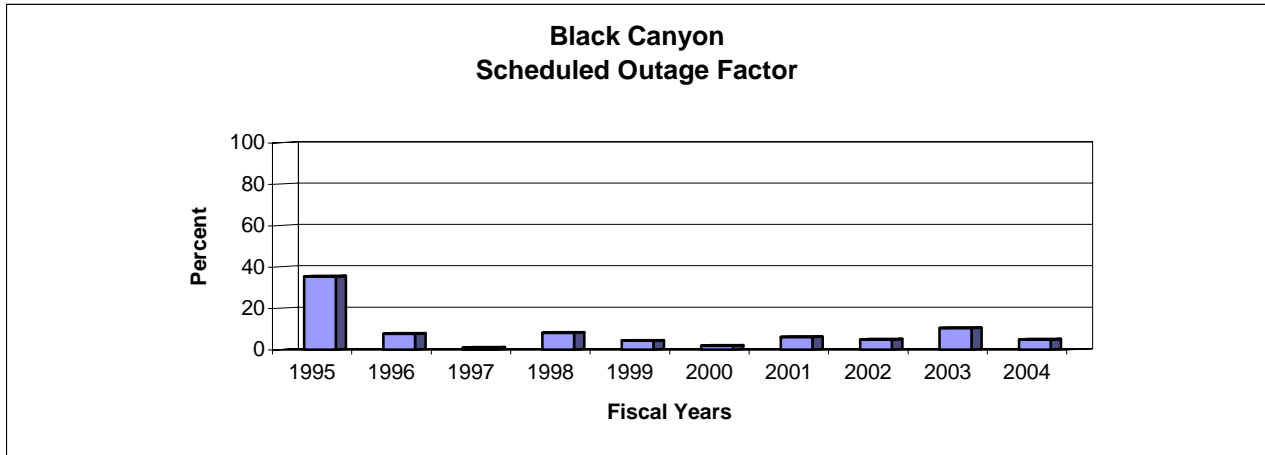
FY-94 and FY-95 Unit 1 lower guide bearing failed

**Benchmark 6
Forced Outage Factor**



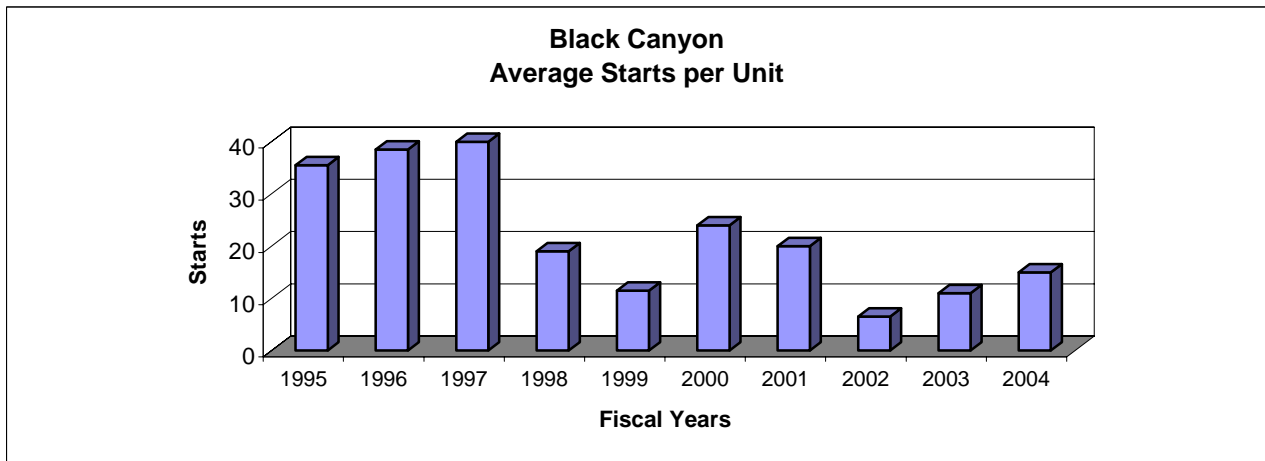
FY-94 and FY-95 Unit 1 lower guide bearing failed

**Benchmark 7
Scheduled Outage Factor**



FY-94 Unit 1 rewind and overhaul
FY-95 Unit 2 rewind

Starts



**Black Canyon Powerplant
0-10 MW**

Benchmark Data Comparison					
Fiscal Year 2004	Black Canyon Powerplant	Reclamation Average 10-30 MW Group	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	27.7	Not Applicable	*21.06	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	0.02%	Not Applicable	13.5%	Not Applicable	Not Applicable
O&M Cost \$/MWh	11.11	24.61	2.77	22.26	1.23
O&M Costs \$/MW	71,223.25	65,356.27	7,316.97	67,421.22	2,951.22
O&M Equip Work Year per MW	0.24	0.33	0.04	Not Available	0.000
Availability Factor	95.2	71.0	86.9	**89.2	99.97
Forced Outage Factor	0.02	0.1	0.7	**1.9	0.00
Scheduled Outage Factor	4.8	28.9	12.4	**8.9	0.02

*Weighted by Net Generation

**2003 NERC Average