Ancillary Services

Parker
Ancillary Services

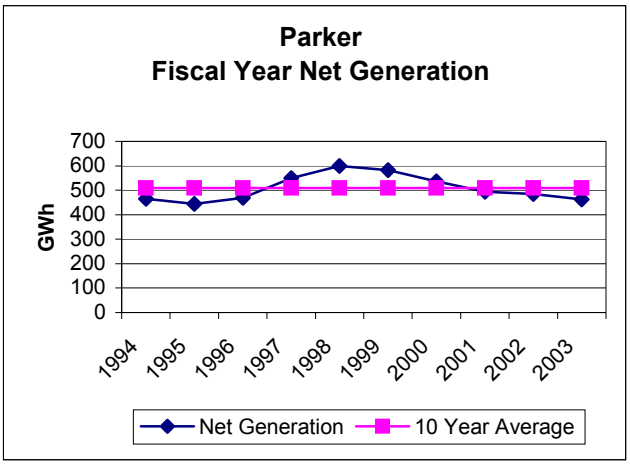
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	No
Black Start	No
Voltage Support	Yes

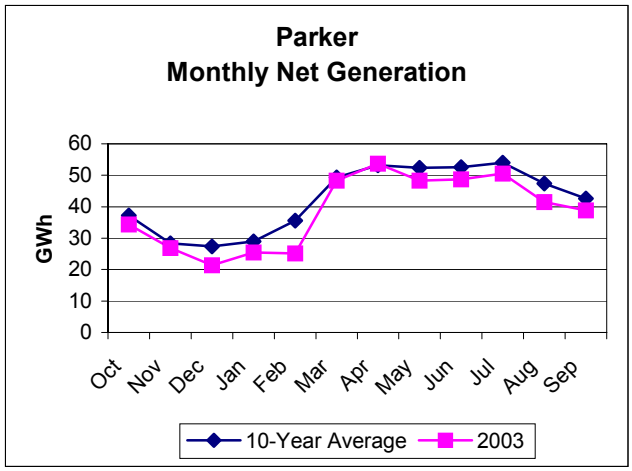
Generators

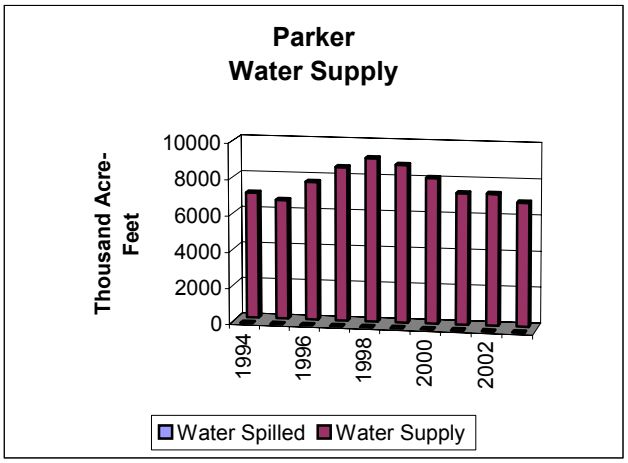
Parker Generators
Existing Number and Capacity

Unit #	Original Nameplate (kW)	Increased (kW)	Present Nameplate (kW)
1	30,000	0	30,000
2	30,000	0	30,000
3	30,000	0	30,000
4	30,000	0	30,000
4 Units	120,000	0	120,000

Generation

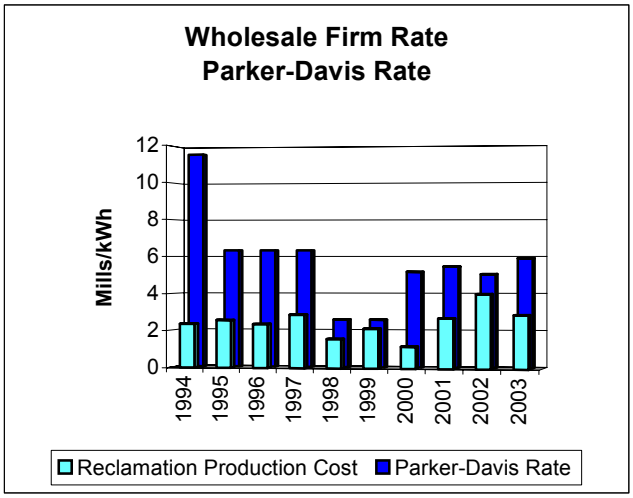

Parker
Fiscal Year Net Generation
GWh
700
600
500
400
300
200
100
0
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
Net Generation
10 Year Average


Parker
Monthly Net Generation
GWh
60
50
40
30
20
10
0
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
10-Year Average
2003

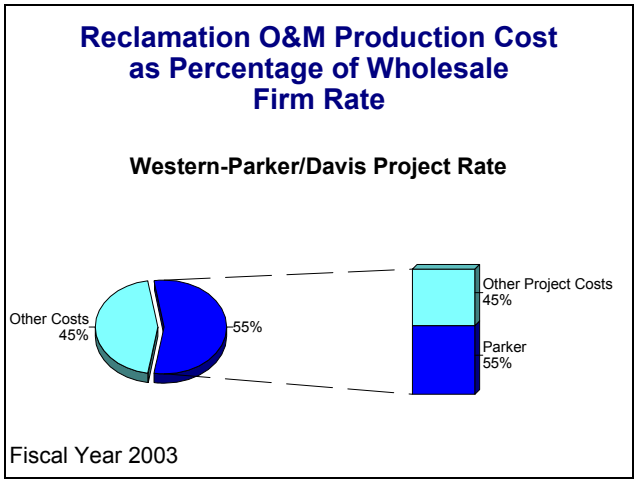

Parker
Water Supply
Thousand Acre-Feet
10000
8000
6000
4000
2000
0
1994
1996
1998
2000
2002
Water Spilled
Water Supply

Prime Laboratory Benchmarks

Benchmark 1
Wholesale Firm Rate

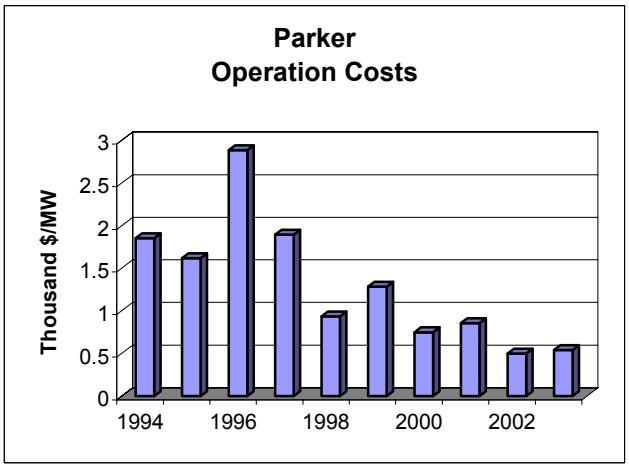


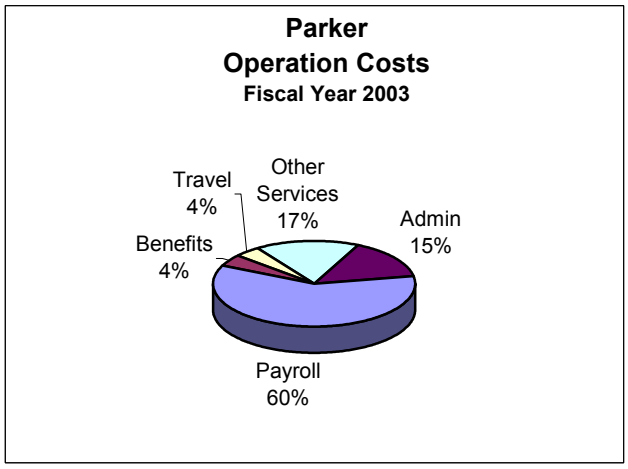
Benchmark 2
Reclamation's Production Cost as Percentage of Wholesale Firm Rate

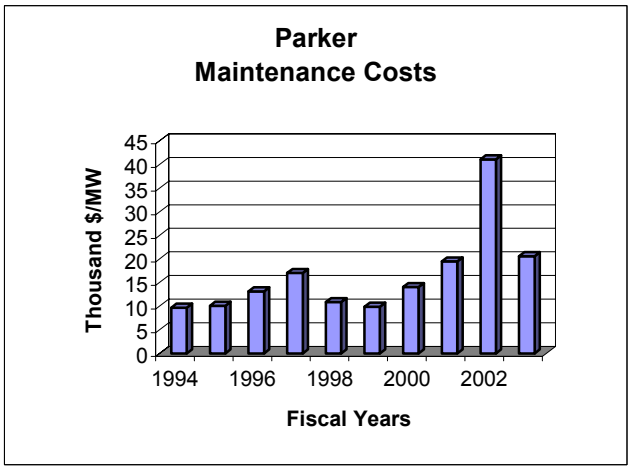


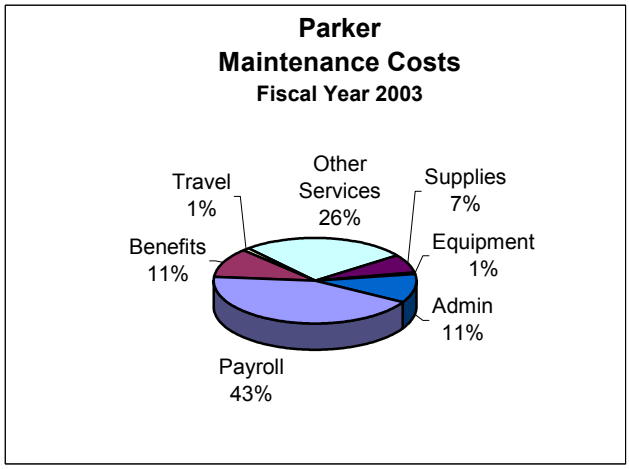
Reclamation expenses, as a percentage of the rate, do not reflect the total expenditures of this project.

Benchmark 3
Production Cost

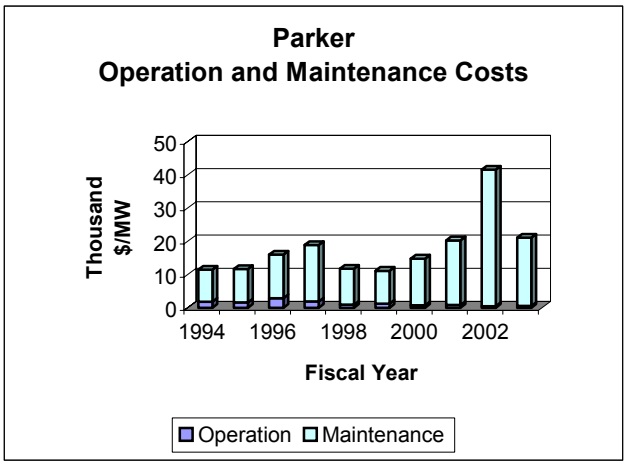


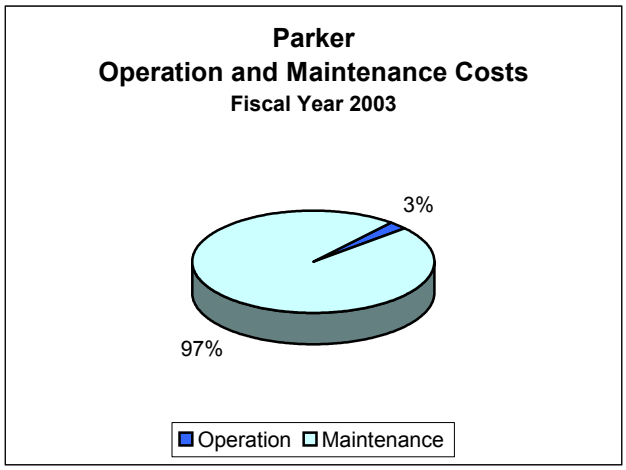


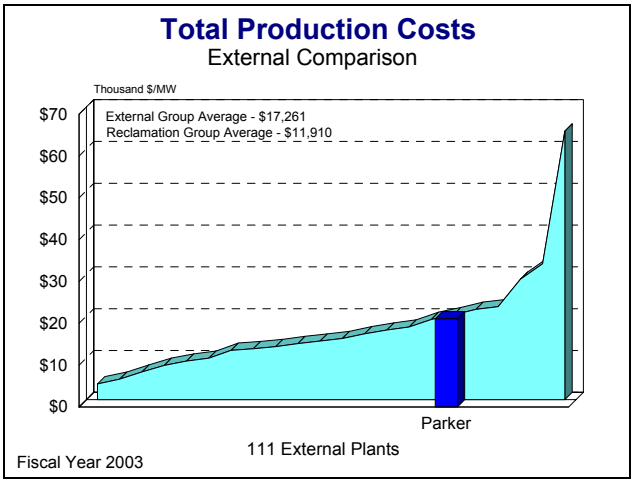


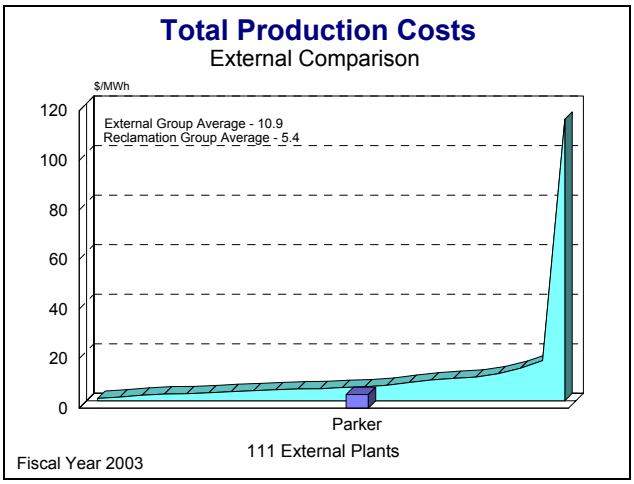


Benchmark 3
Production Cost





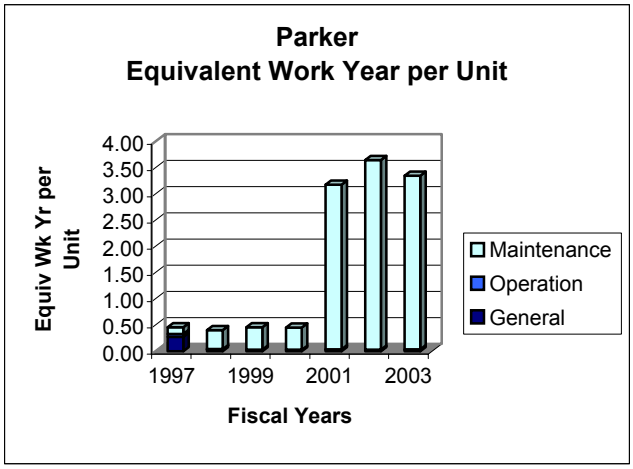


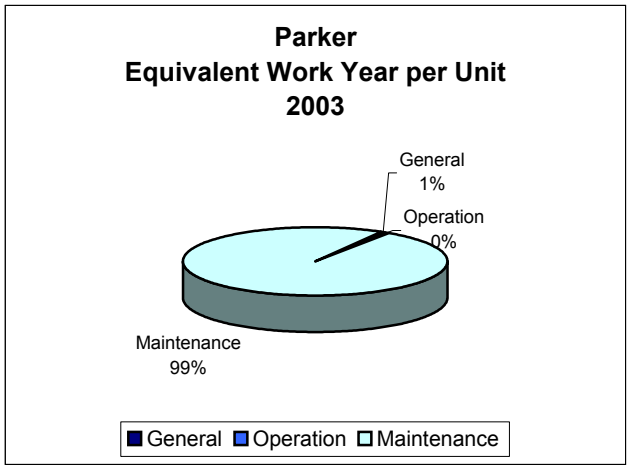


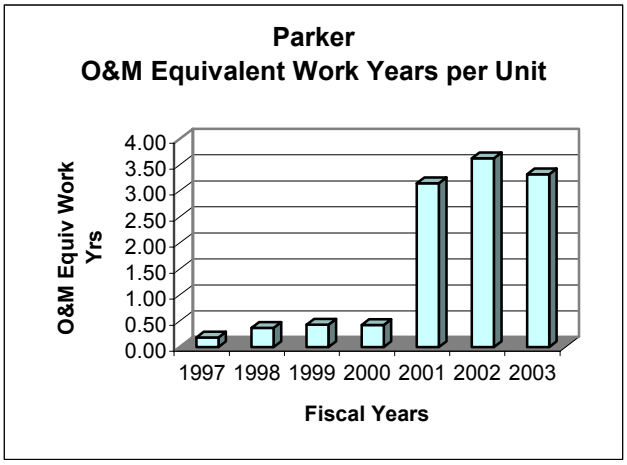
Benchmark 4
Workforce Deployment

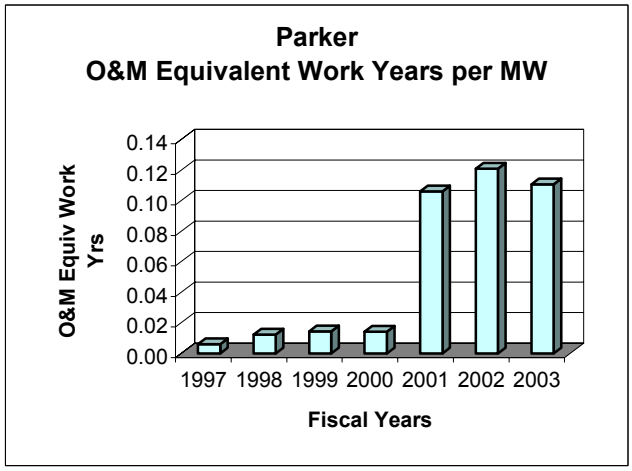
Parker
2003 Equivalent
Work Year Levels

	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	0.09	0.09	0.02	0.00
Operation	0.04	0	0	0.04	0.01	0
Maintenance	12.03	1.21	0	13.24	3.31	0.11
Total Staffing	12.07	1.21	0.09	13.37	3.34	0.11

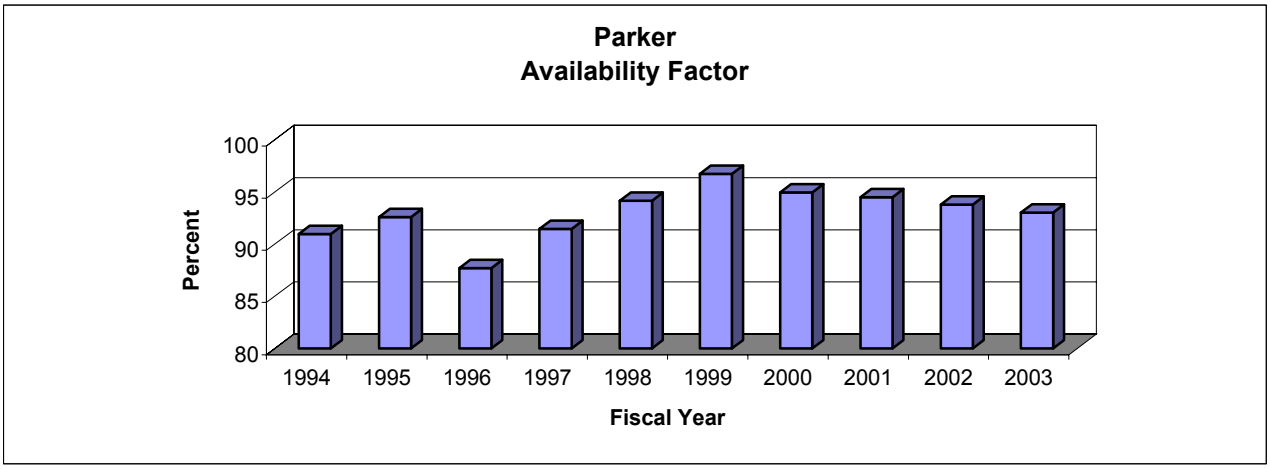




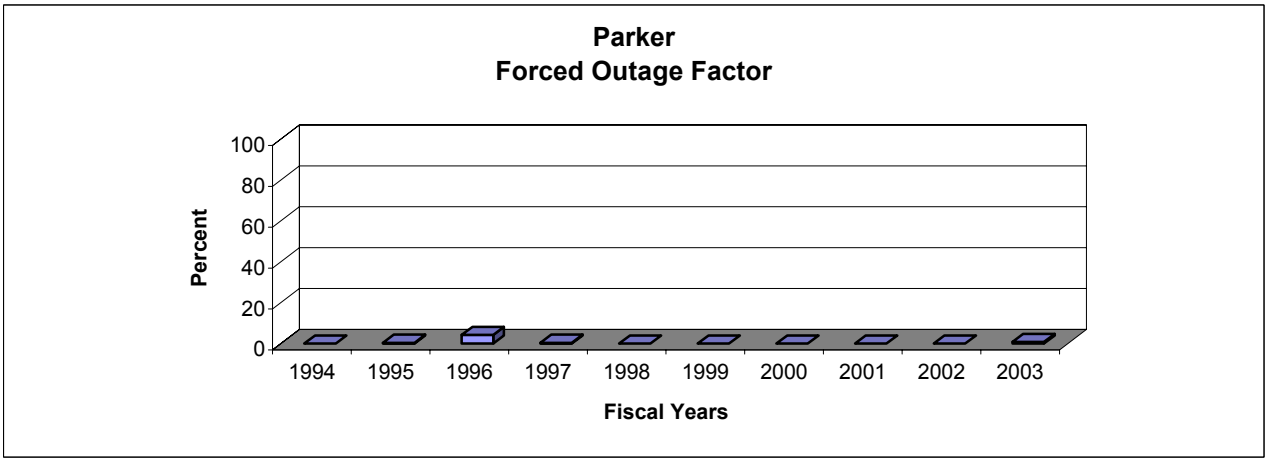




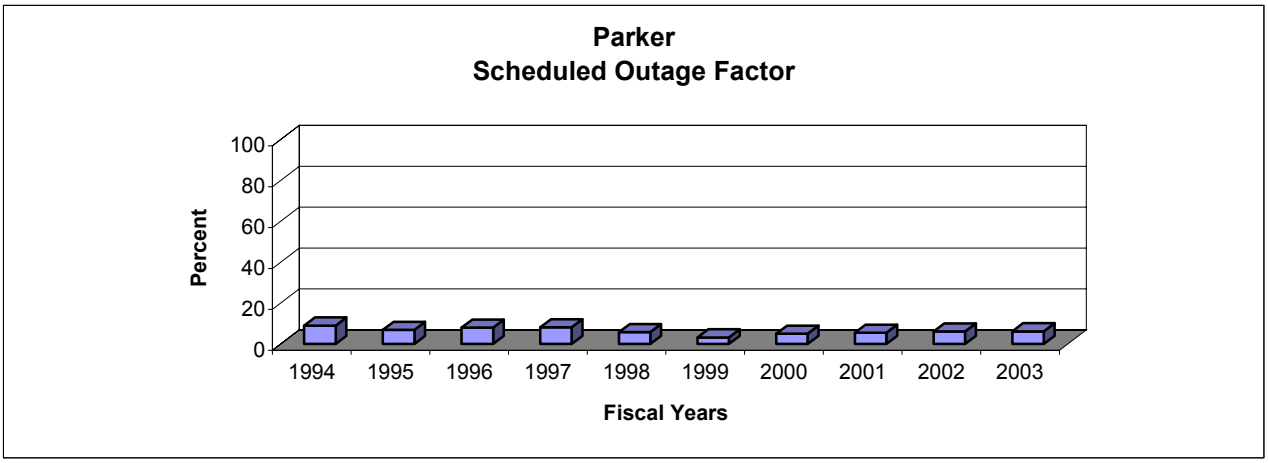
Benchmark 5
Availability Factor



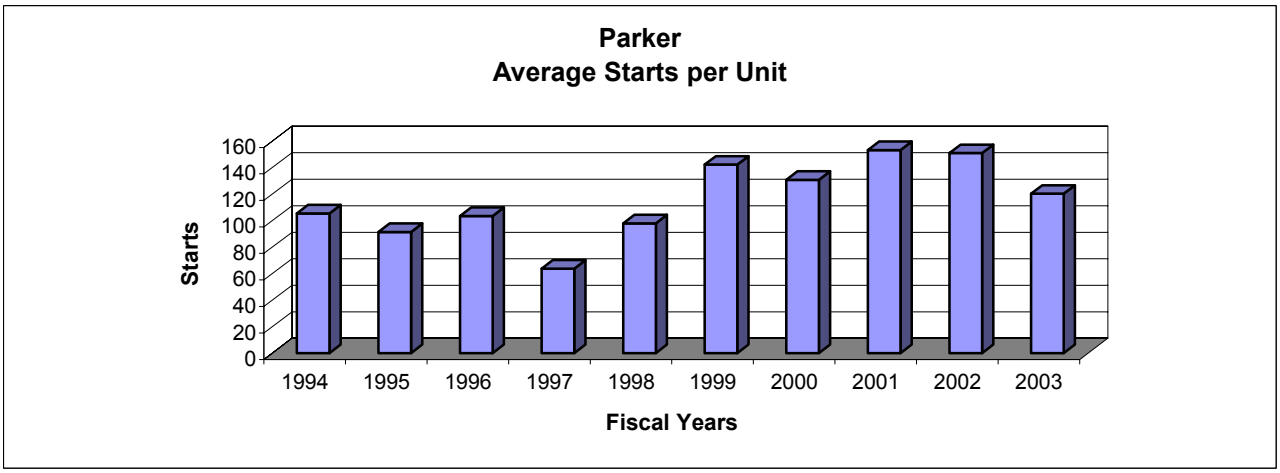
Benchmark 6
Forced Outage Factor



Benchmark 7
Scheduled Outage Factor



Starts



Benchmark Data Comparison

Fiscal Year 2003	Parker Powerplant	Reclamation Average 100-500 MW Group	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	5.9	Not Applicable	*23.1	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	30.2%	Not Applicable	12.0%	Not Applicable	Not Applicable
O&M Cost $/MWh	5.5	4.5	2.7	10.9	1.1
O&M Costs $/MW	21,100	10,924	7,315	17,261	3,108
O&M Equiv Work Year per MW	0.11	0.05	0.04	Not Available	0.010
Availability Factor	93.0	87.6	83.6	**88.9	99.1
Forced Outage Factor	0.8	0.8	1.5	**2.4	0.0
Scheduled Outage Factor	6.2	11.7	14.9	**8.7	0.0

*Weighted by Net Generation
**2002 NERC Average