Ancillary Services

Mt. Elbert
Ancillary Services

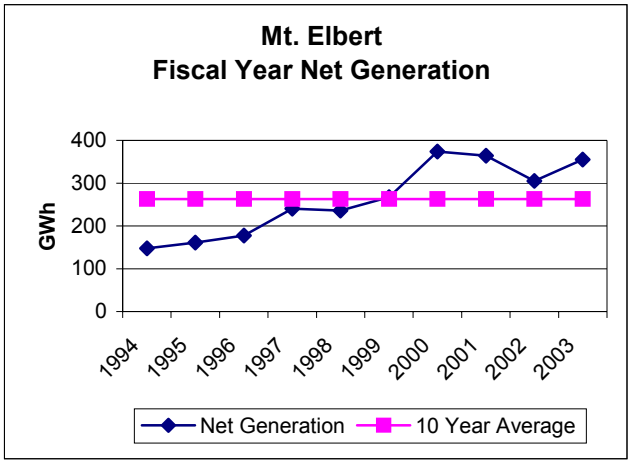
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	Yes
Black Start	Yes
Voltage Support	Yes

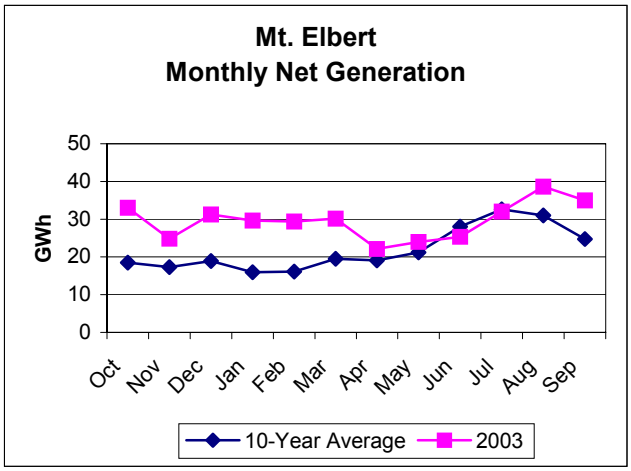
Generators

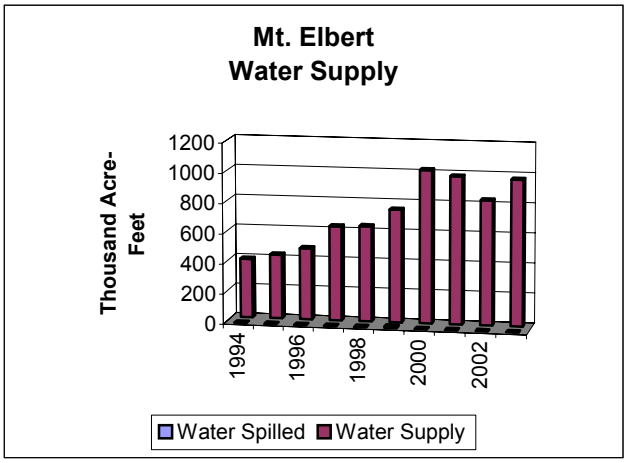
Mt. Elbert Generators
Existing Number and Capacity

Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	100,000	0	100,000
2	100,000	0	100,000
2 Units	200,000	0	200,000

Generation

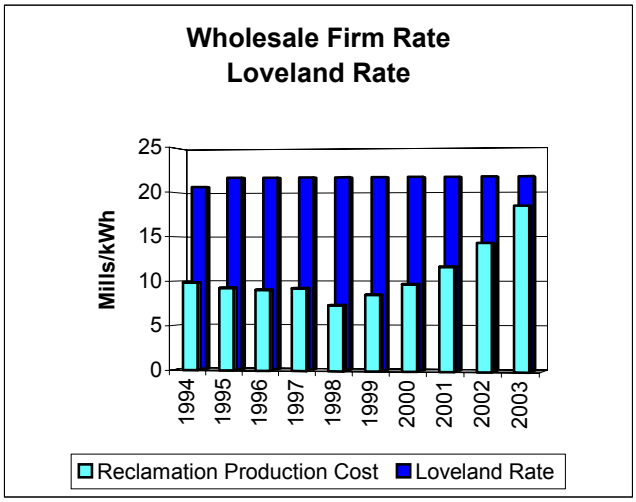

Mt. Elbert
Fiscal Year Net Generation
GWh
400
300
200
100
0
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
Net Generation
10 Year Average


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

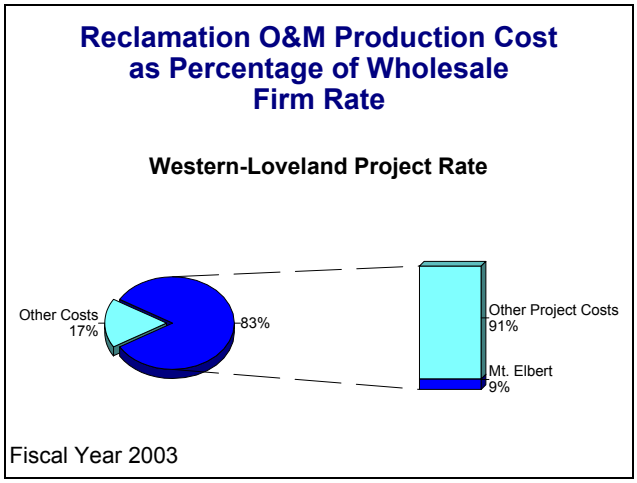

Mt. Elbert
Water Supply
Thousand Acre-Feet
1200
1000
800
600
400
200
0
1994
1996
1998
2000
2002
Water Spilled
Water Supply

Prime Laboratory Benchmarks

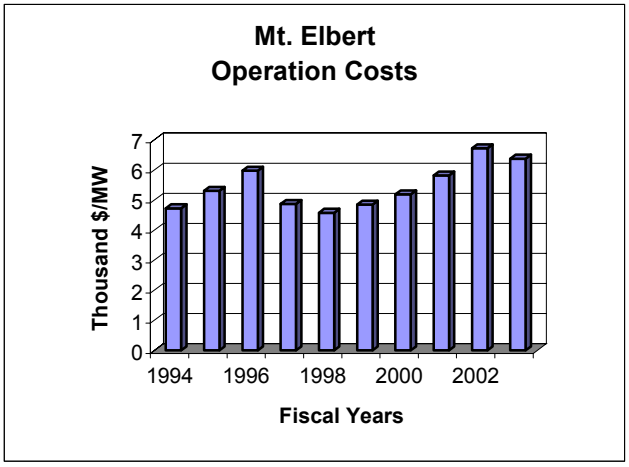
Benchmark 1
Wholesale Firm Rate

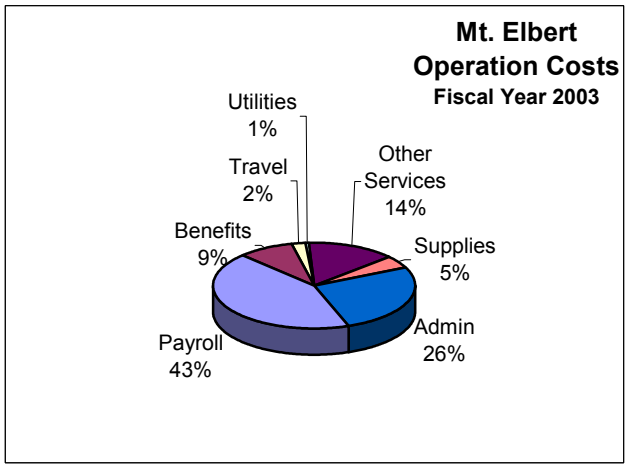


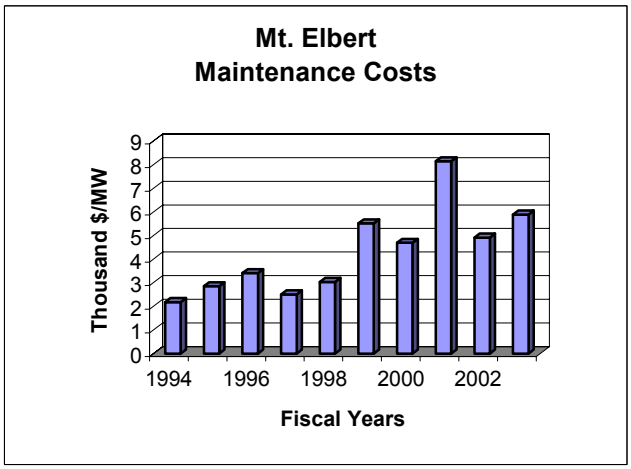
Benchmark 2
Reclamation's Production Cost as Percentage of Wholesale Firm Rate

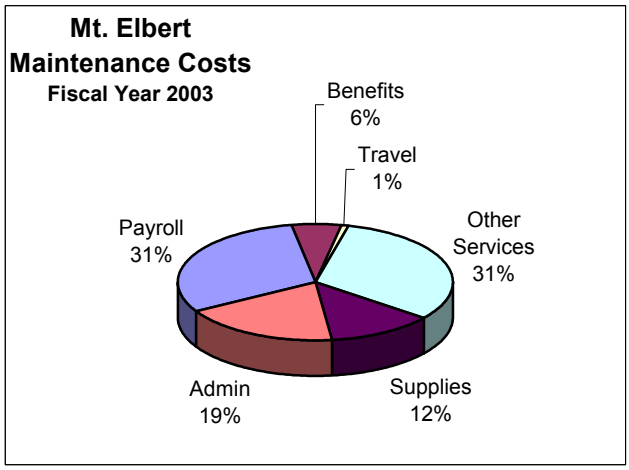


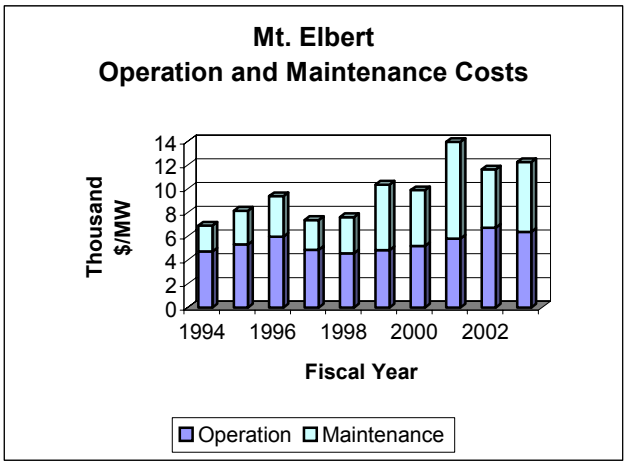
Benchmark 3
Production Cost

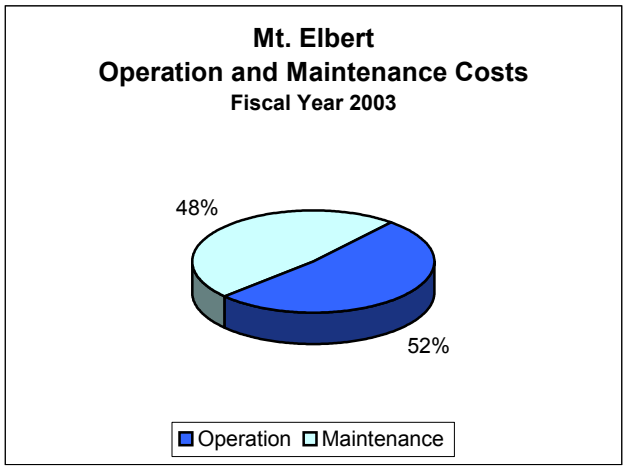








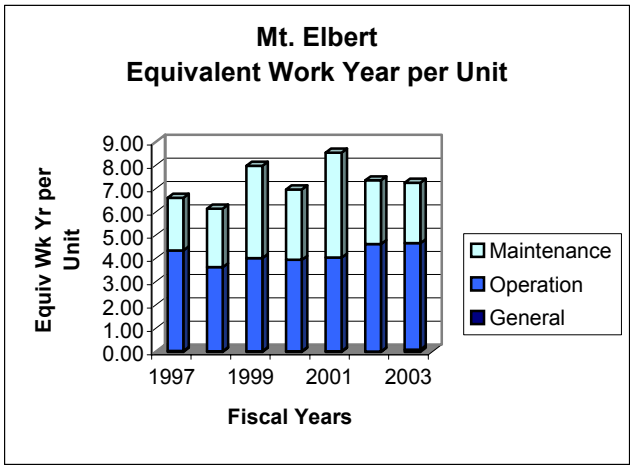


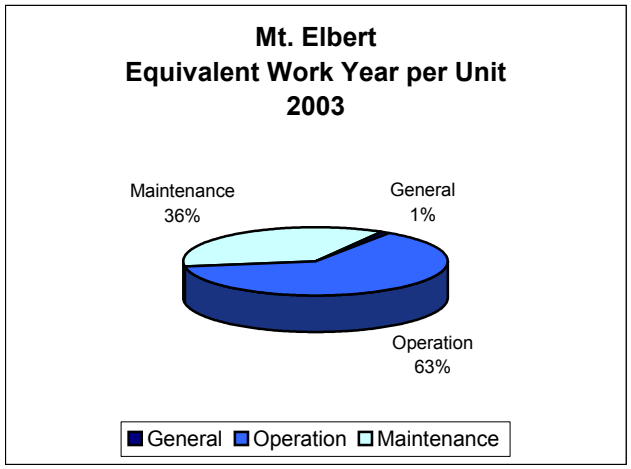


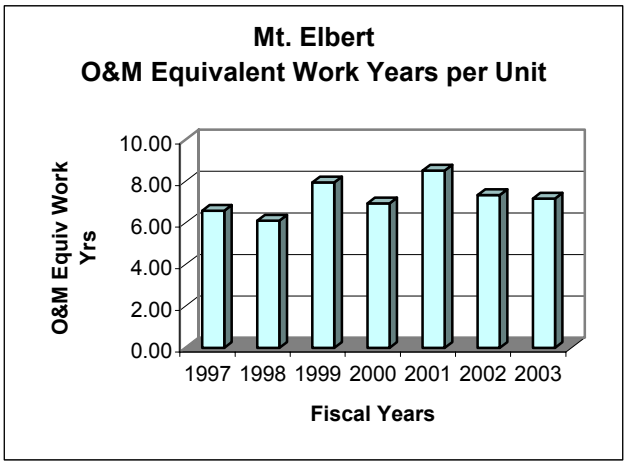
Benchmark 4
Workforce Deployment

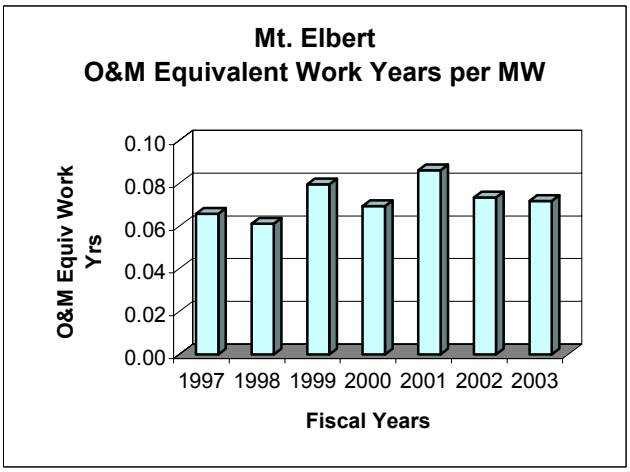
Mt. Elbert
2003 Equivalent
Work Year Levels

	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	0.12	0.01	0.04	0.18	0.09	0
Operation	8.24	0.88	0	9.13	4.56	0.046
Maintenance	4.69	0.5	0	5.2	2.6	0.03
Total Staffing	13.05	1.4	0.04	14.5	7.25	0.07

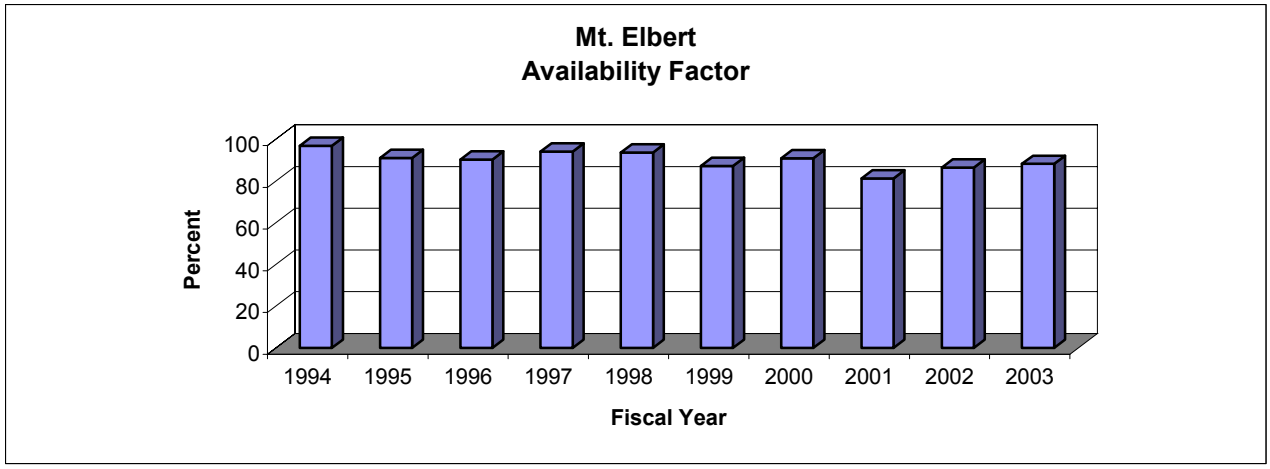




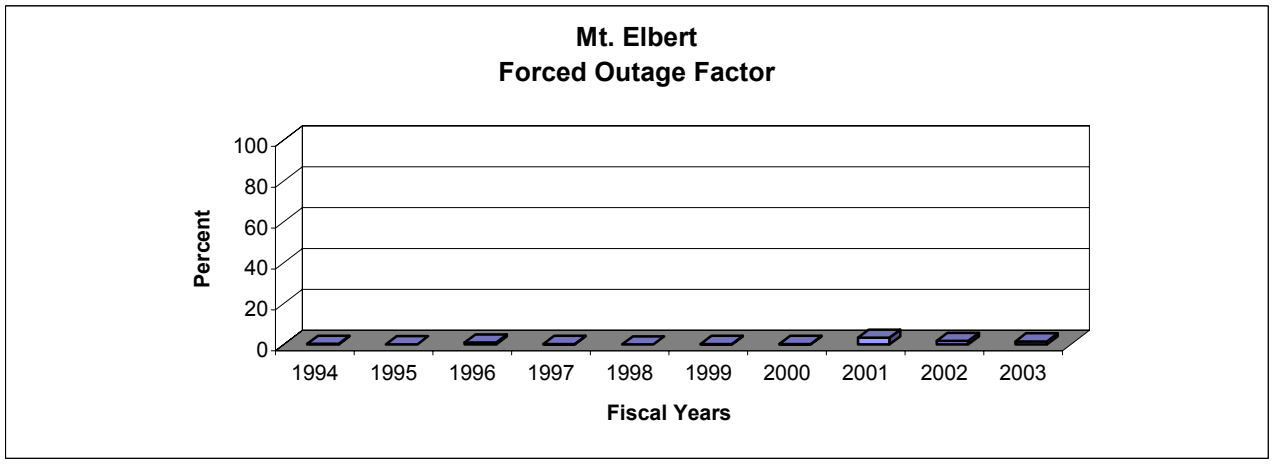




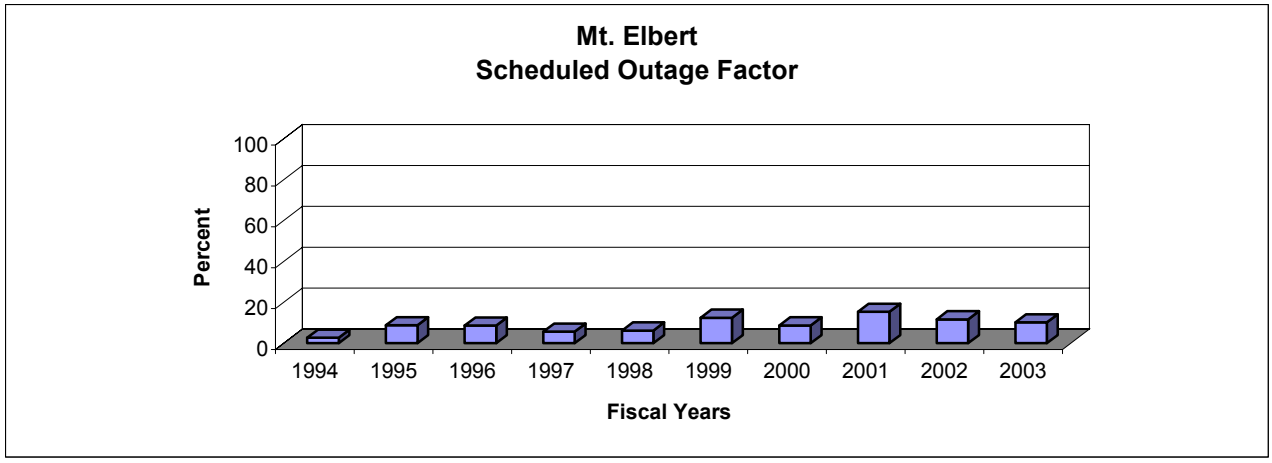
Benchmark 5
Availability Factor



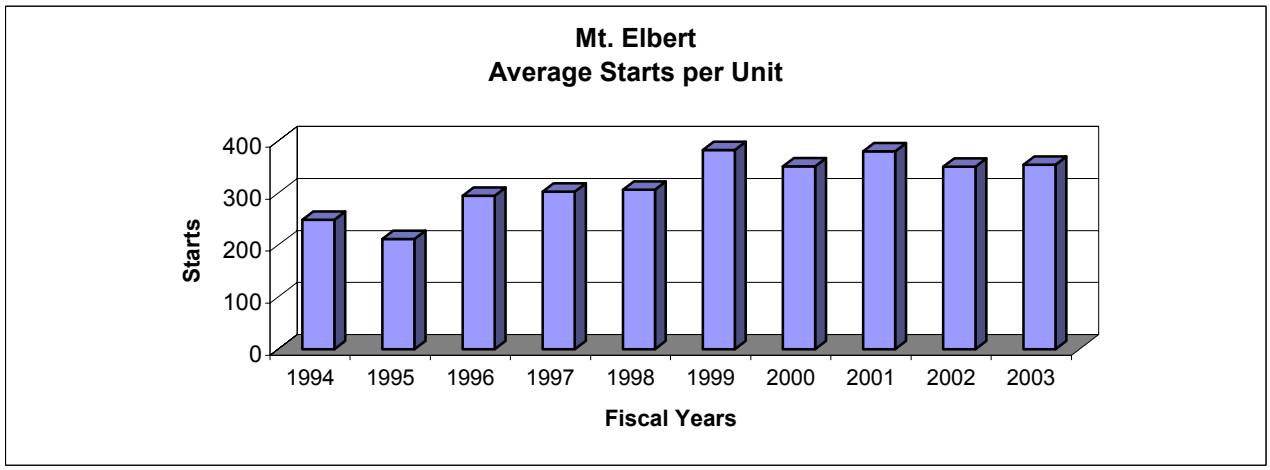
Benchmark 6
Forced Outage Factor



Benchmark 7
Scheduled Outage Factor



Starts



Benchmark Data Comparison

Fiscal Year 2003	Mt. Elbert Powerplant	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	21.7	*23.1	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	7.15%	12.0%	Not Applicable	Not Applicable
O&M Cost $/MWh	6.9	2.7	Not Applicable	1.1
O&M Costs $/MW	12,266	7,315	Not Applicable	3,108
O&M Equiv Work Year per MW	0.1	0.04	Not Available	0.010
Availability Factor	88.3	83.6	**88.9	99.1
Forced Outage Factor	1.5	1.5	**2.4	0.0
Scheduled Outage Factor	10.2	14.9	**8.7	0.0

*Weighted by Net Generation
**2002 NERC Average

Note: Mt. Elbert is the only Reclamation facility that is operated in a pump-storage mode. This means that the plant purchases off peak energy to pump water to an upper storage reservoir. The water is then released to a lower reservoir when needed to meet system peak demands and for system stability. Because of the unique demands and usages on the Mt. Elbert facility, it is inappropriate to compare to other Reclamation plants.