

**Heart Mountain Powerplant  
Seasonal**

**Ancillary Services**

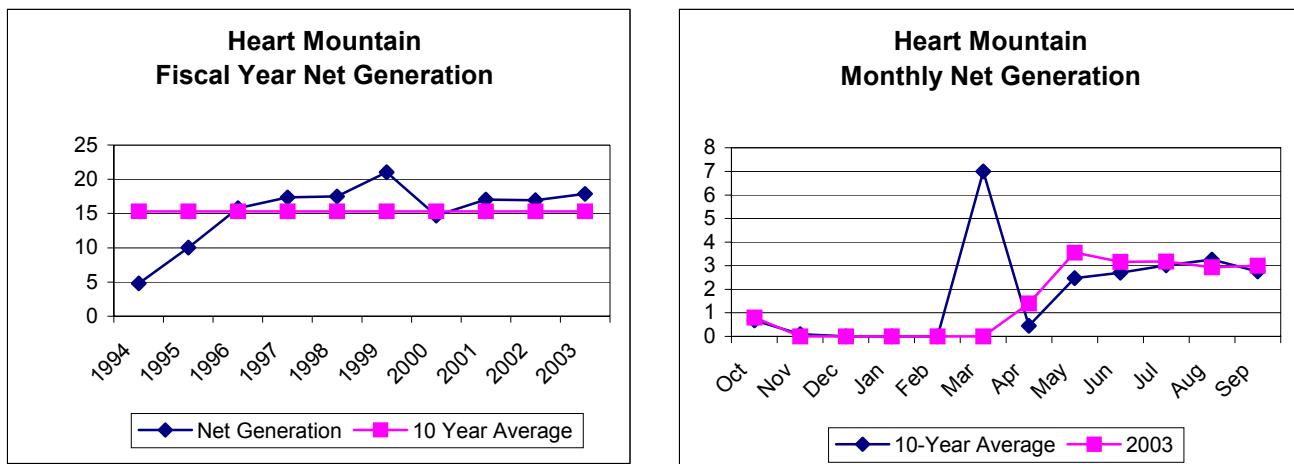
<b>Heart Mountain Ancillary Services</b>	
Spinning Reserve	No
Non-Spinning Reserve	No
Replacement Reserve	No
Regulation/Load Following	No
Black Start	No
Voltage Support	Yes

**Generators**

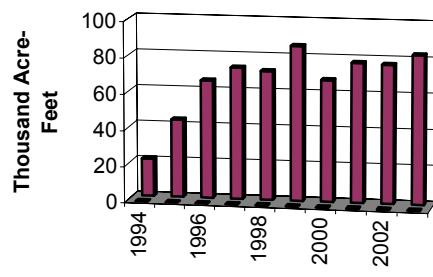
<b>Heart Mountain Generators</b>			
Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	5,000	0	5,000
Total 1	5,000	0	5,000

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**Generation**

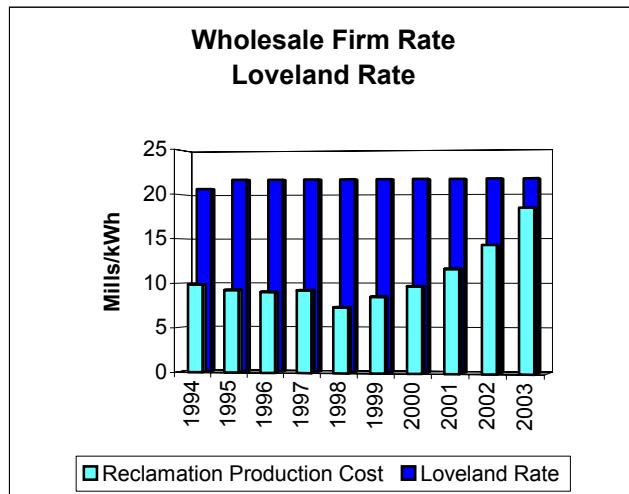


**Heart Mountain Water Supply**

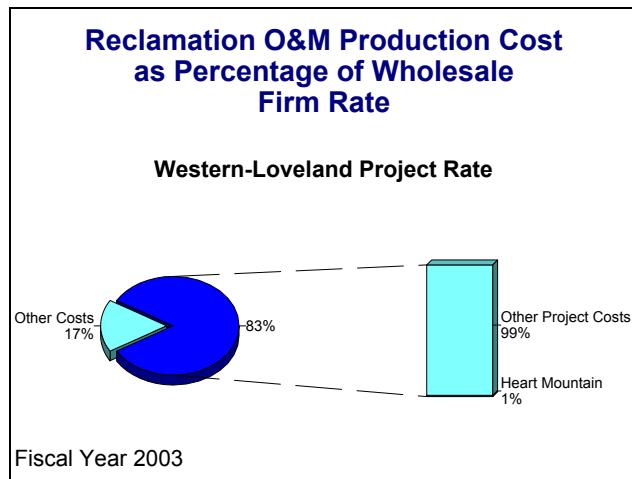


**Prime Laboratory Benchmarks**

**Benchmark 1  
Wholesale Firm Rate**

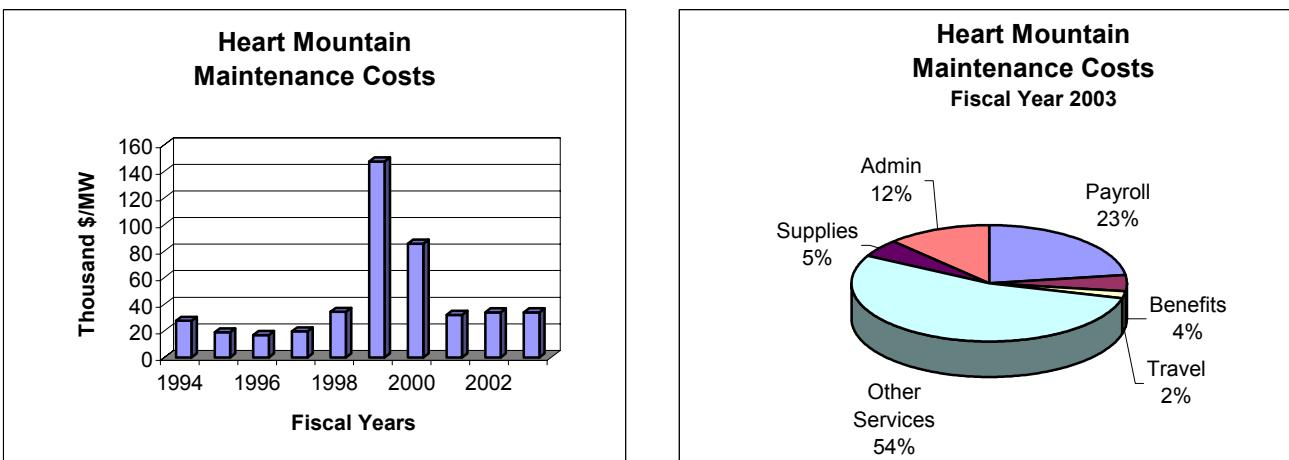
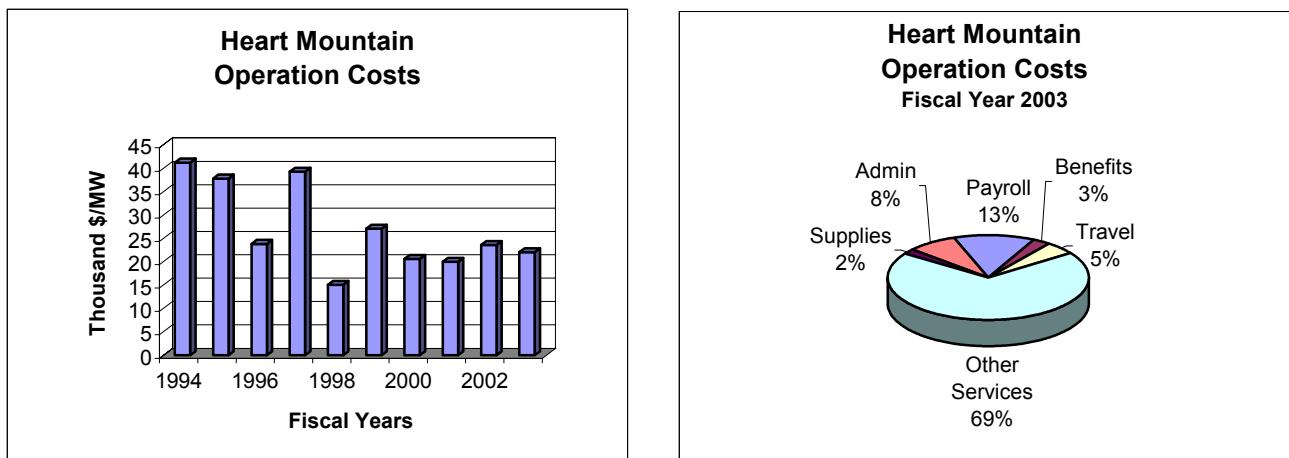


**Benchmark 2  
Reclamation's Production Cost as Percentage of Wholesale Firm Rate**



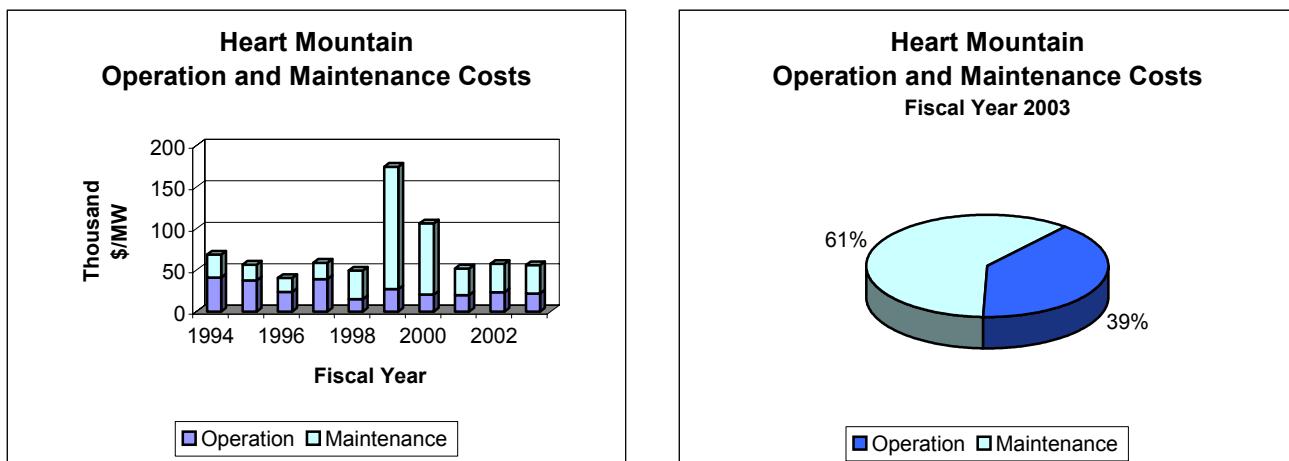
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### Benchmark 3 Production Cost



FY-99 – Penstock repairs and slope stabilization

FY-00 – Wicket gate repairs

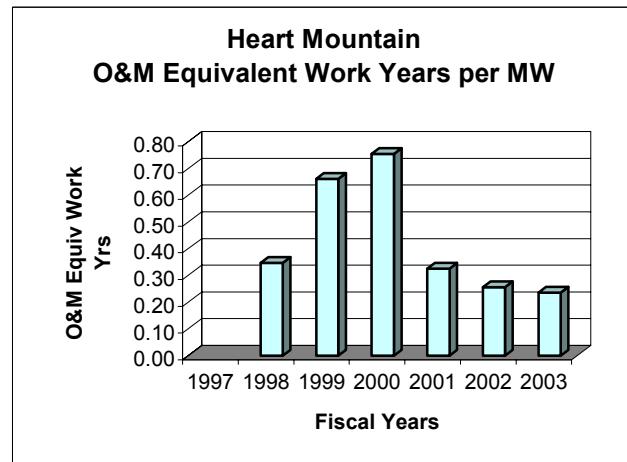
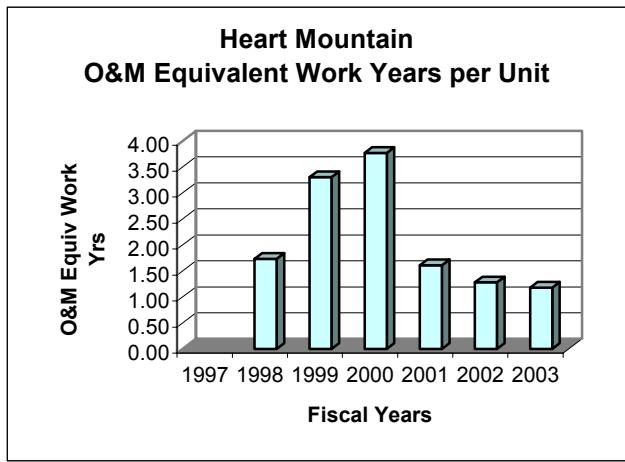
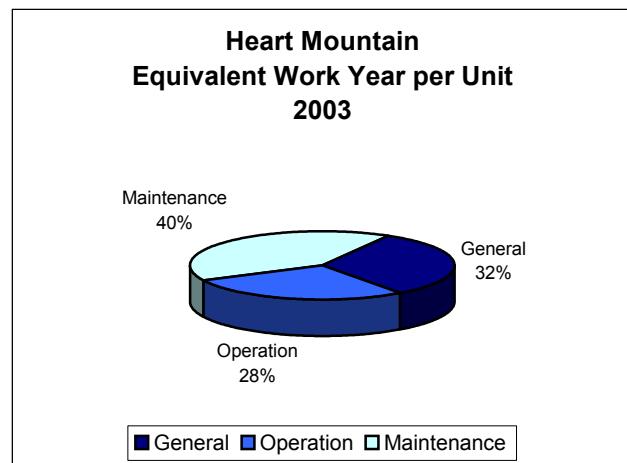
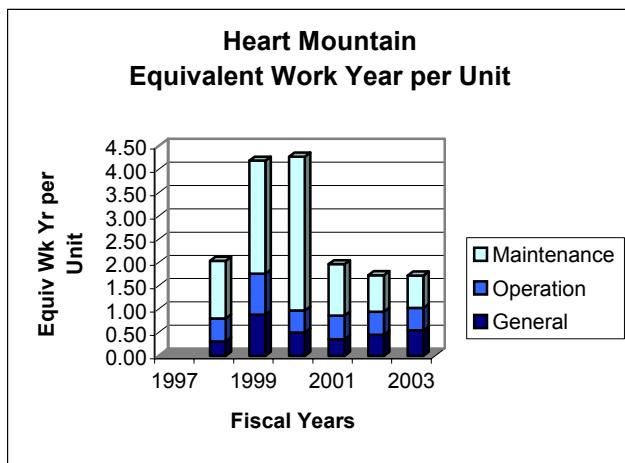


FY-00 – Wicket gate repairs accomplished.

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**Benchmark 4  
Workforce Deployment**

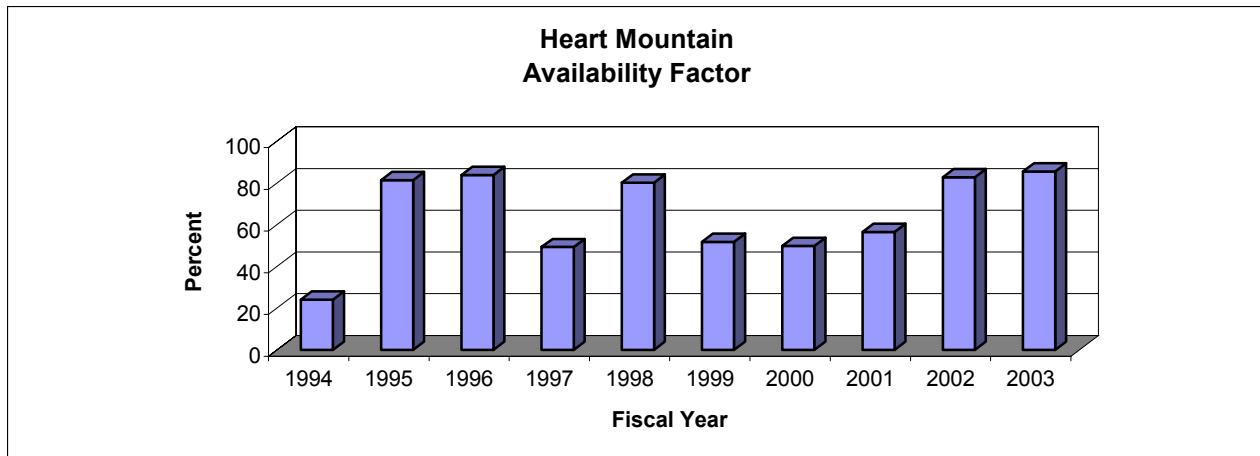
<b>Heart Mountain 2003 Equivalent Work Year Levels</b>						
	Equiv Work Year Charged to Powerplant	Leave Additive	Denver and Washington Equiv Work Year Additive	Total Equiv Work Year Allocated to Powerplant	Total Equiv Work year per Generating Unit	Total Equiv Work Year per Megawatt
General	0.47	0.05	0.02	0.54	0.54	0.11
Operation	0.43	0.05	0	0.48	0.48	0.10
Maintenance	0.63	0.07	0	0.69	0.69	0.14
Total Staffing	1.53	0.16	0.02	1.72	1.72	0.34



Distributive Accounts not available for FY-97

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**Benchmark 5  
Availability Factor**



FY-97 - Governor and wicket gate repairs

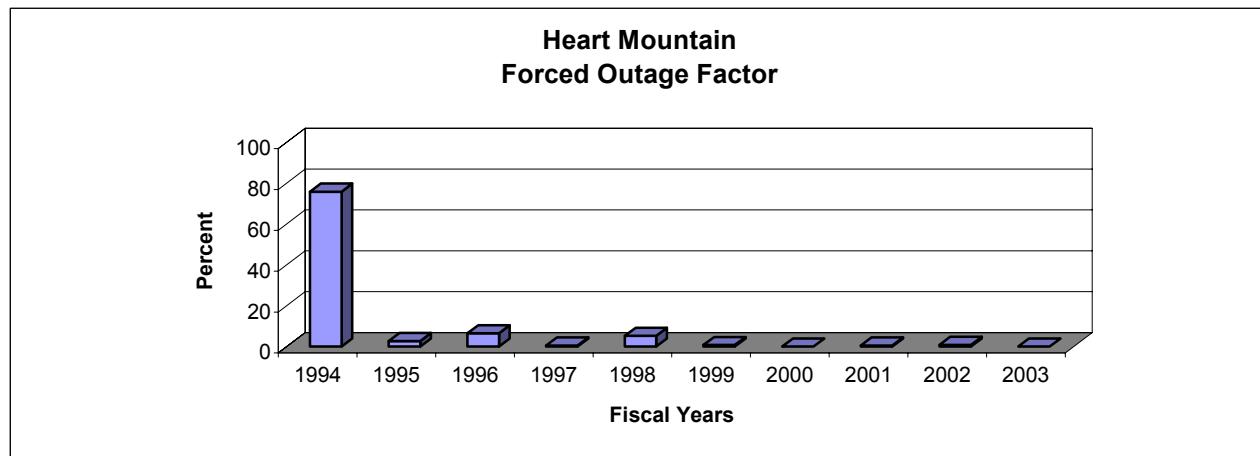
FY-98 - Penstock and wicket gate repairs

FY-99 - Penstock repairs and slope stabilization

FY-00 - Wicket gate repairs.

FY-01- Buffalo Bill Powerplant penstock and Spirit Mountain sleeve valve re-coating resulted in an extended outage at this plant

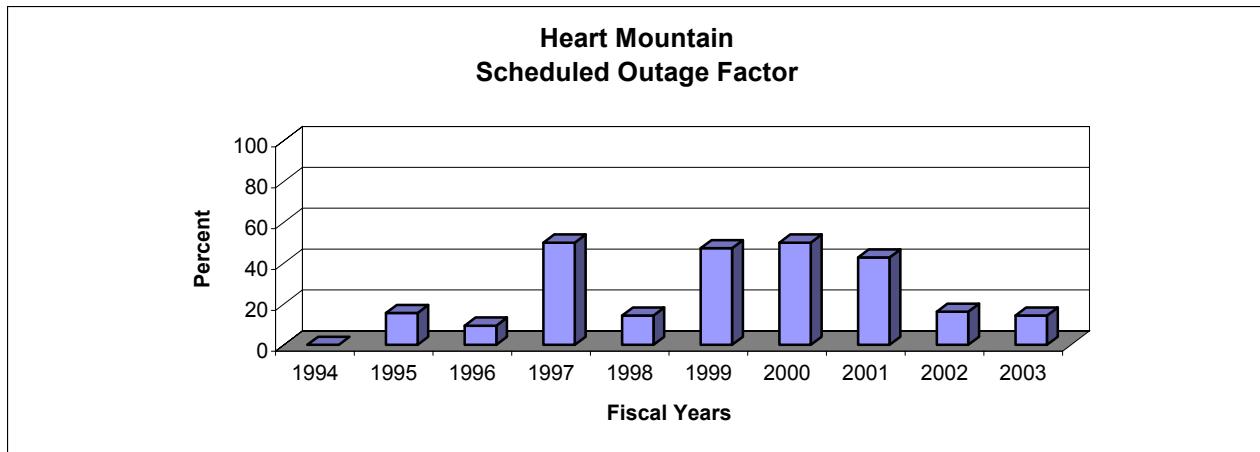
**Benchmark 6  
Forced Outage Factor**



FY-94 - Thrust bearing problem

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**Benchmark 7  
Scheduled Outage Factor**



FY-97 - Governor and wicket gate repairs

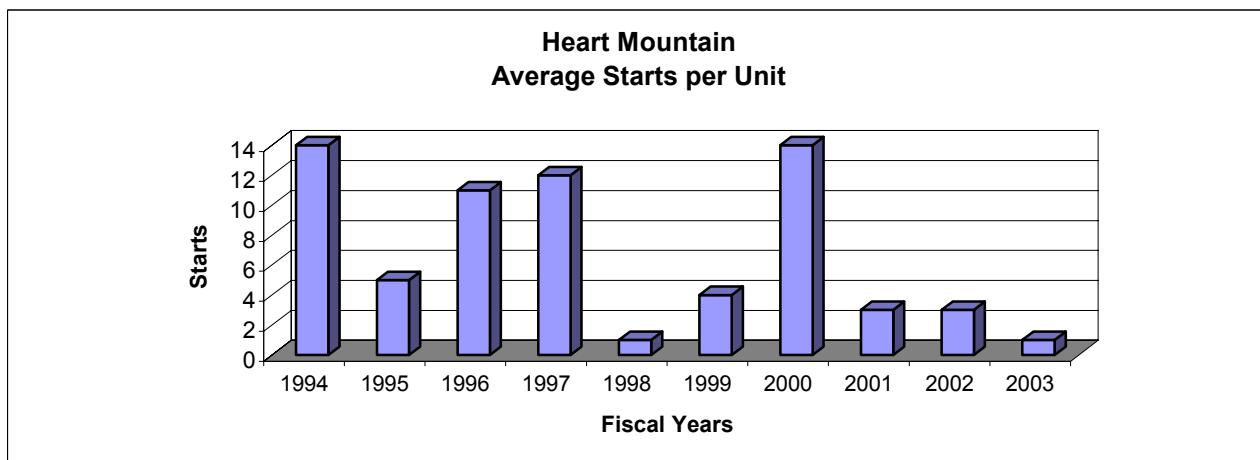
FY-98 - Penstock and wicket gate repairs

FY-99 - Penstock repairs and slope stabilization

FY-00 - Wicket gate repairs.

FY-01- Buffalo Bill Powerplant penstock and Spirit Mountain sleeve valve re-coating resulted in an extended outage at this plant

**Starts**



## Benchmark Data Comparison

Fiscal Year 2003	Heart Mountain Powerplant	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	21.7	*23.1	***0	Not Available
Production Cost as Percentage of Wholesale Firm Rate	0.8%	12.1%	Not Applicable	Not Applicable
O&M Cost \$/MWh	15.7	2.7	Not Applicable	1.1
O&M Costs \$/MW	55,920	7,348	Not Applicable	3,108
O&M Equiv Work Year per MW	0.2	0.04	Not Available	0.010
Availability Factor	85.6	83.6	**88.9	99.1
Forced Outage Factor	0.0	1.5	**2.4	0.0
Scheduled Outage Factor	14.4	14.9	**8.7	0.0

\*Weighted by Net Generation

\*\*2002 NERC Average