

# Flaming Gorge Powerplant Colorado River Storage Project Flaming Gorge Storage Unit

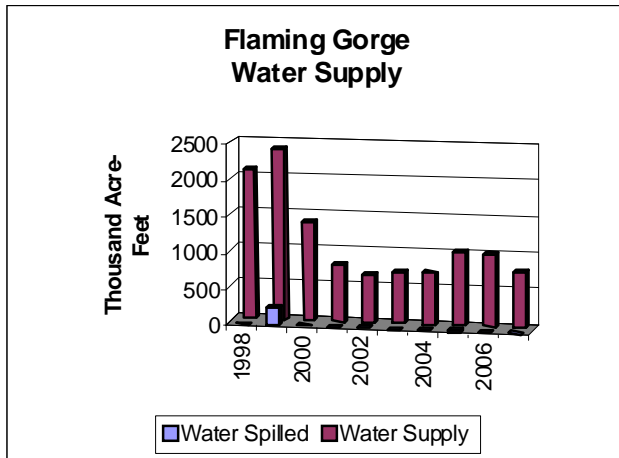
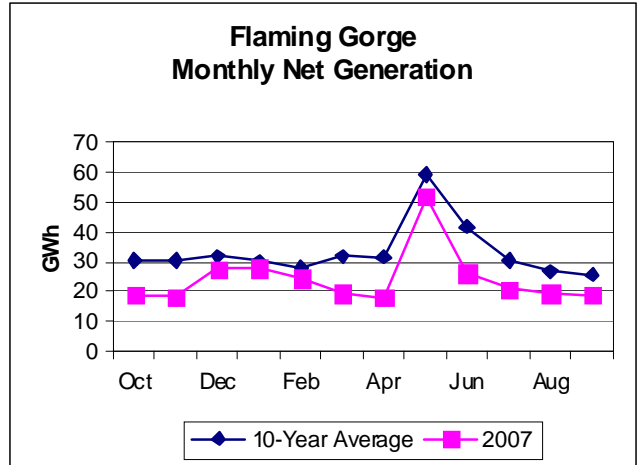
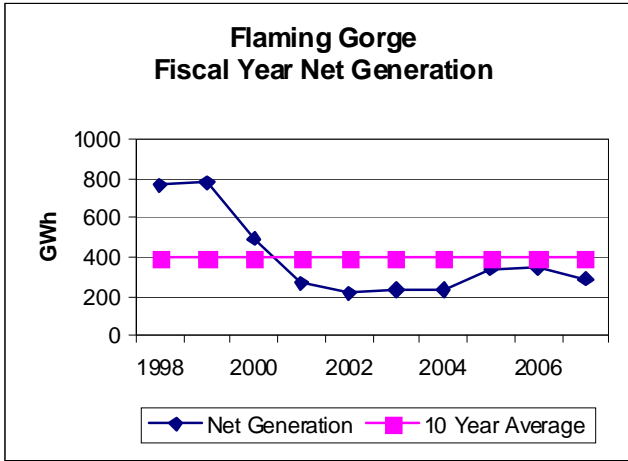
## Ancillary Services

<b>Flaming Gorge Ancillary Services</b>	
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	Yes
Black Start	Yes
Voltage Support	Yes

## Generators

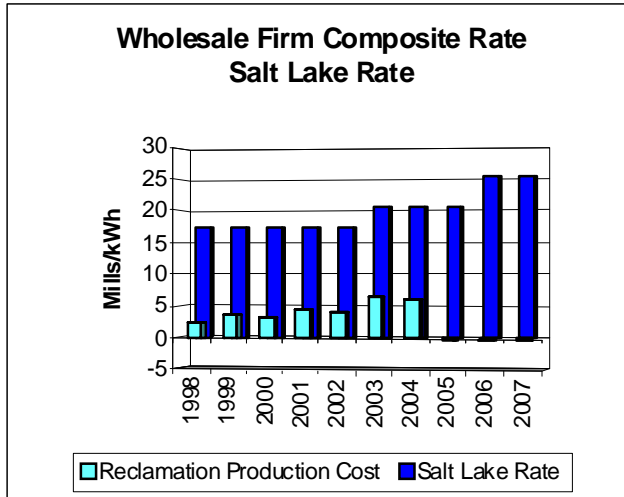
<b>Flaming Gorge Generators</b>			
Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	36,000	14,650	50,650
2	36,000	14,650	50,650
3	36,000	14,650	50,650
3 units	108,000	43,950	151,950

## Generation

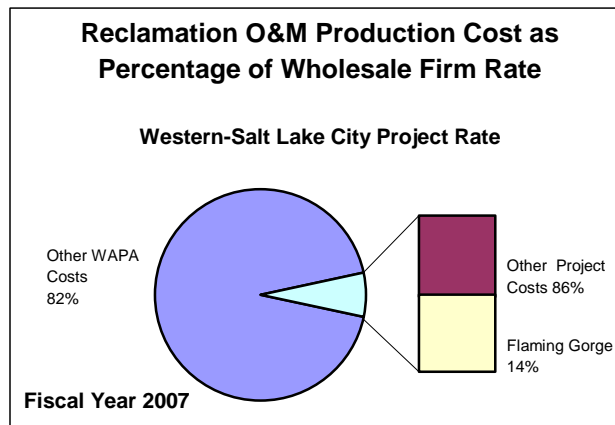


# Prime Laboratory Benchmarks

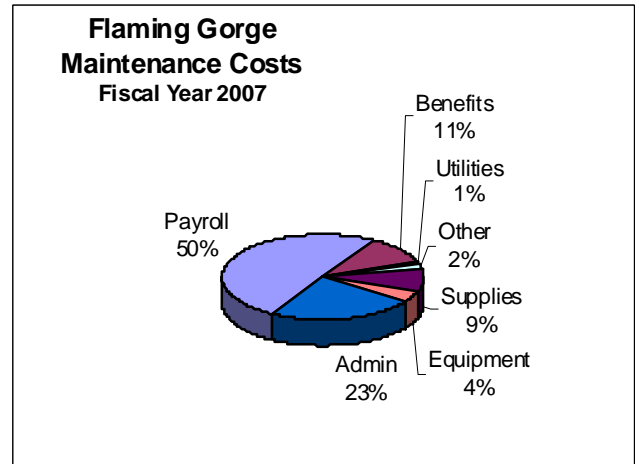
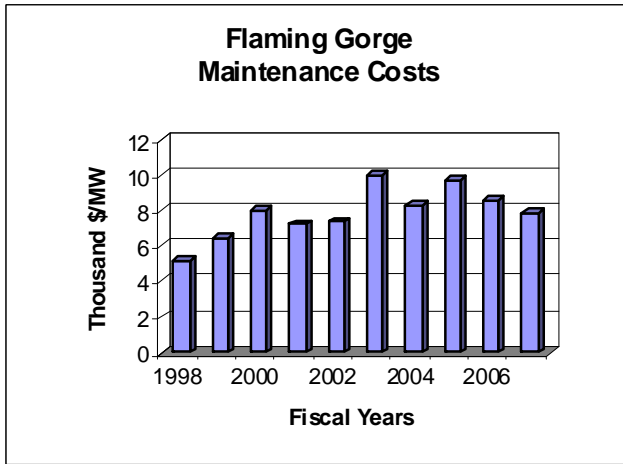
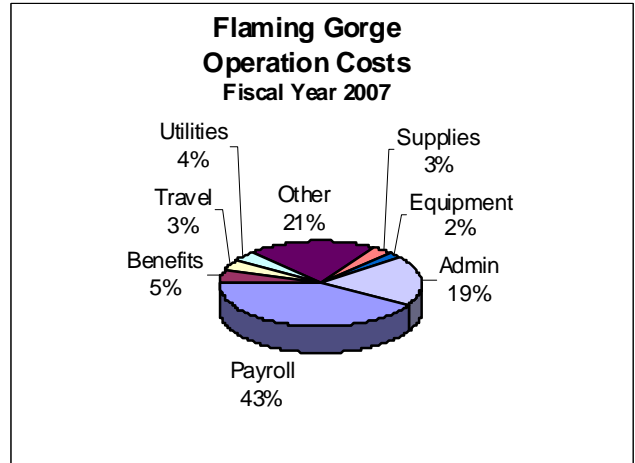
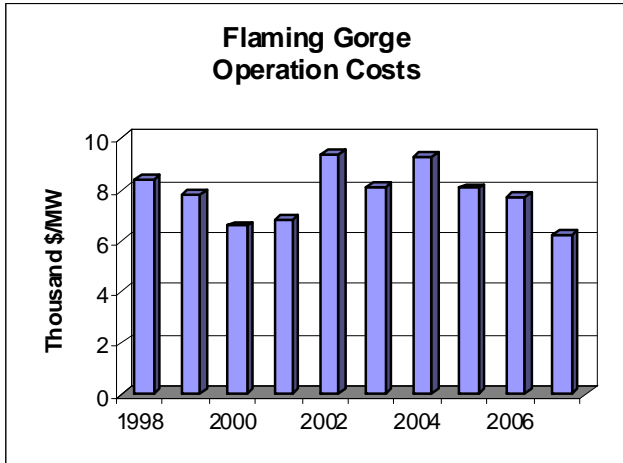
## Benchmark 1 Wholesale Firm Rate



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

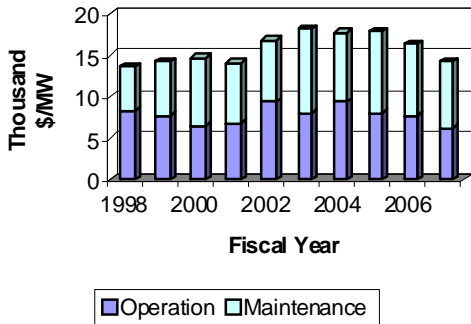


### Benchmark 3 Production Cost

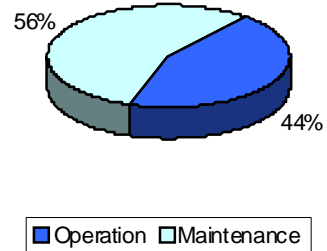


### Benchmark 3 Production Cost

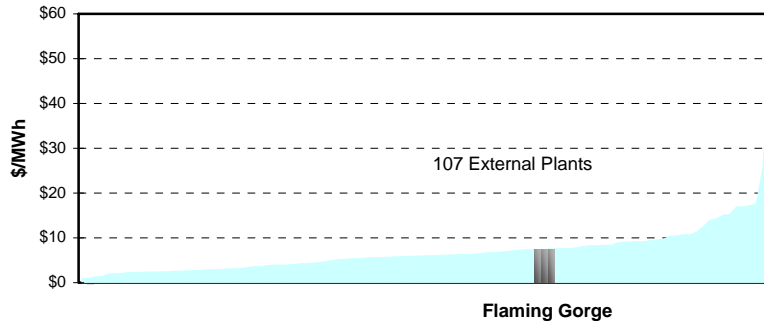
**Flaming Gorge  
Operation and Maintenance Costs**



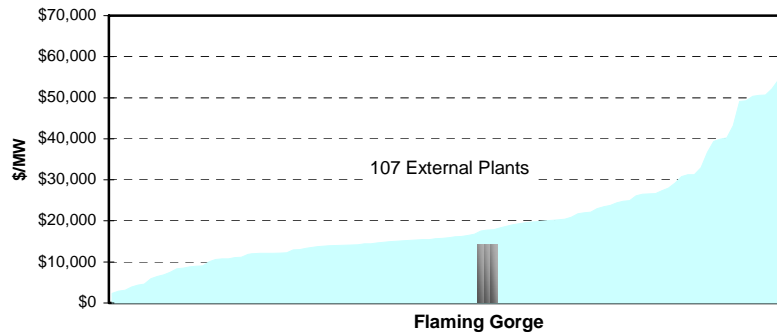
**Flaming Gorge  
Operation and Maintenance Costs  
Fiscal Year 2007**



**Fiscal Year 2007  
Total Production Costs  
External Comparison**

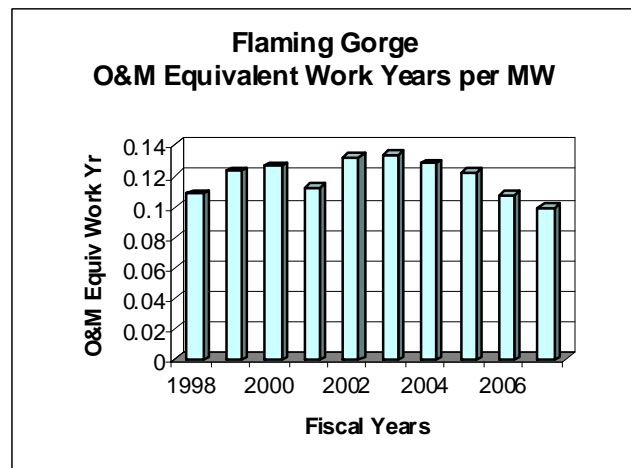
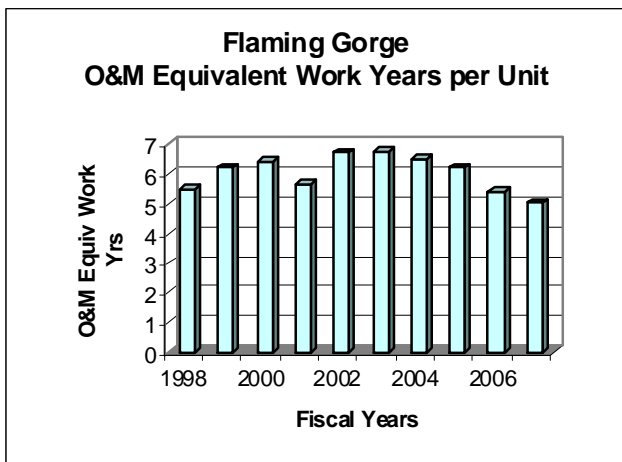
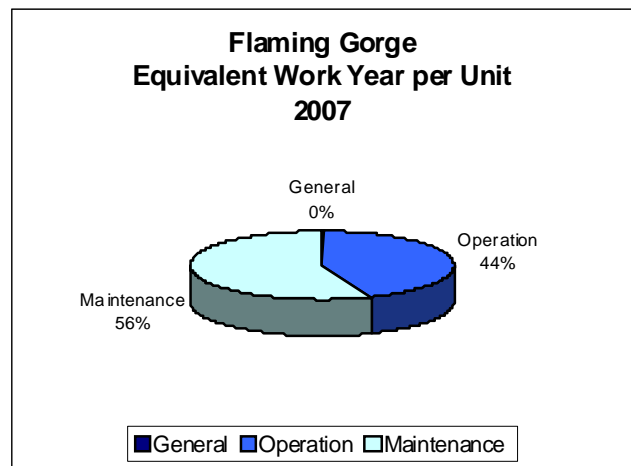
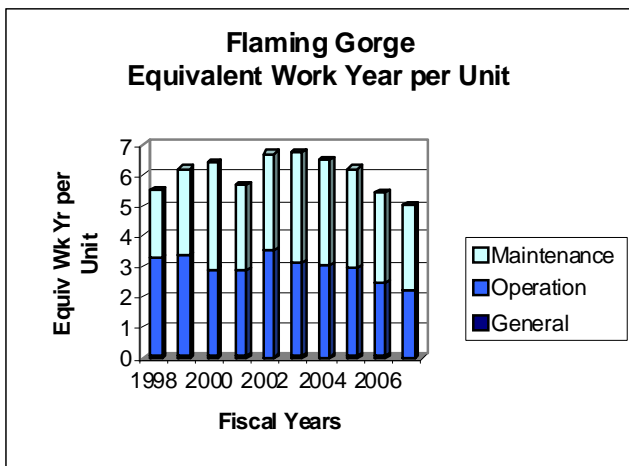


**Fiscal Year 2007  
Total Production Costs  
External Comparison**

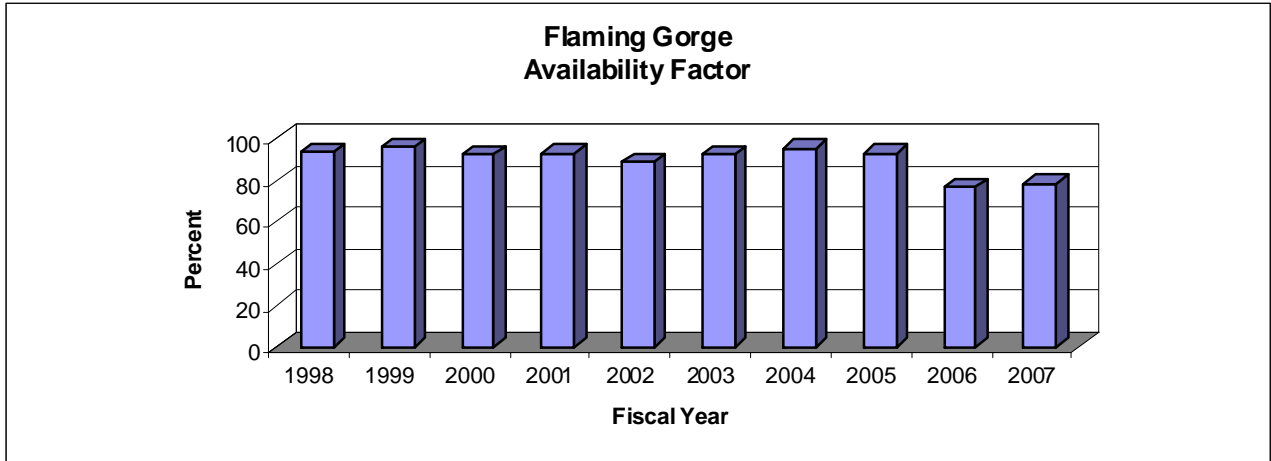


**Benchmark 4  
Workforce Deployment**

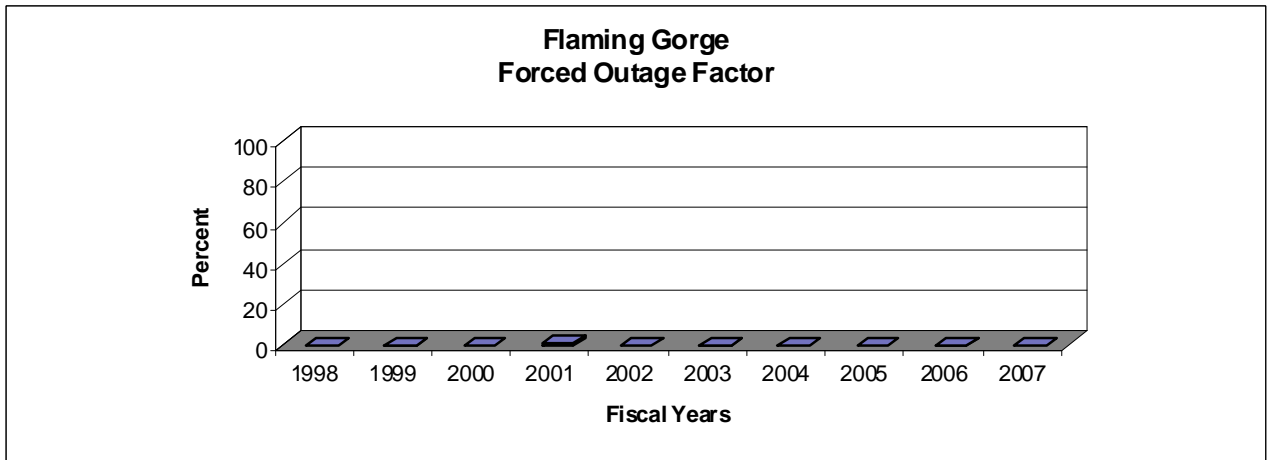
<b>Flaming Gorge FY 2007 Equivalent Work Staffing Year Levels</b>						
	Equivalent Work Year Staffing Charged to Powerplant	Leave Additive	Denver and Washington Equivalent Work Year Staffing Additive	Total Equivalent Work Year Allocated to Powerplant	Total Equivalent Staffing Work Year per Generating Unit	Total Equivalent Work Year Staffing per Megawatt
General	0.00	0.00	0.05	0.05	0.02	0.00
Operation	5.96	0.63	0.00	6.59	2.20	0.04
Maintenance	7.65	0.81	0.00	8.47	2.82	0.06
Total Staffing	13.61	1.45	0.05	15.11	5.04	0.10



**Benchmark 5  
Availability Factor**

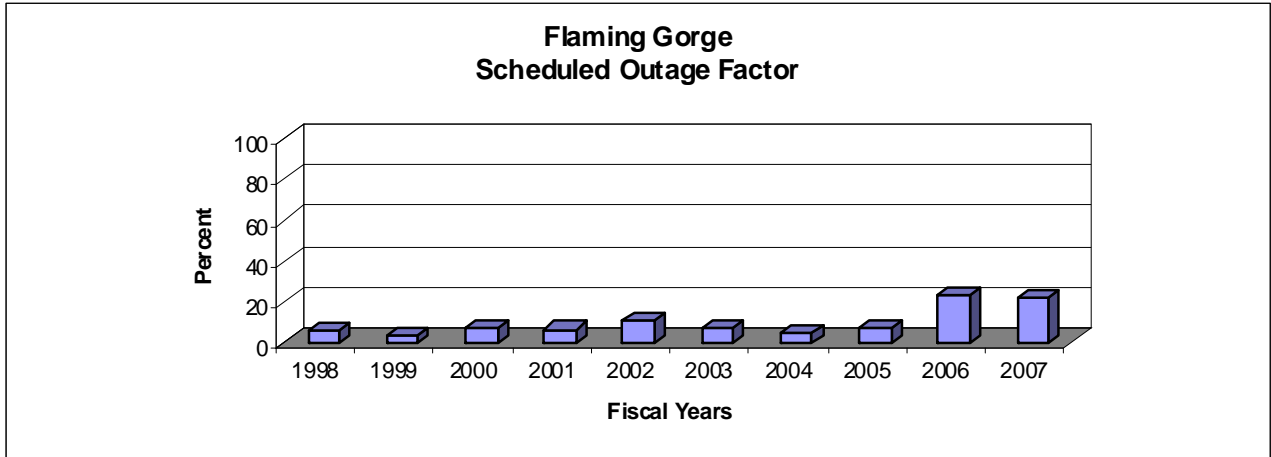


**Benchmark 6  
Forced Outage Factor**

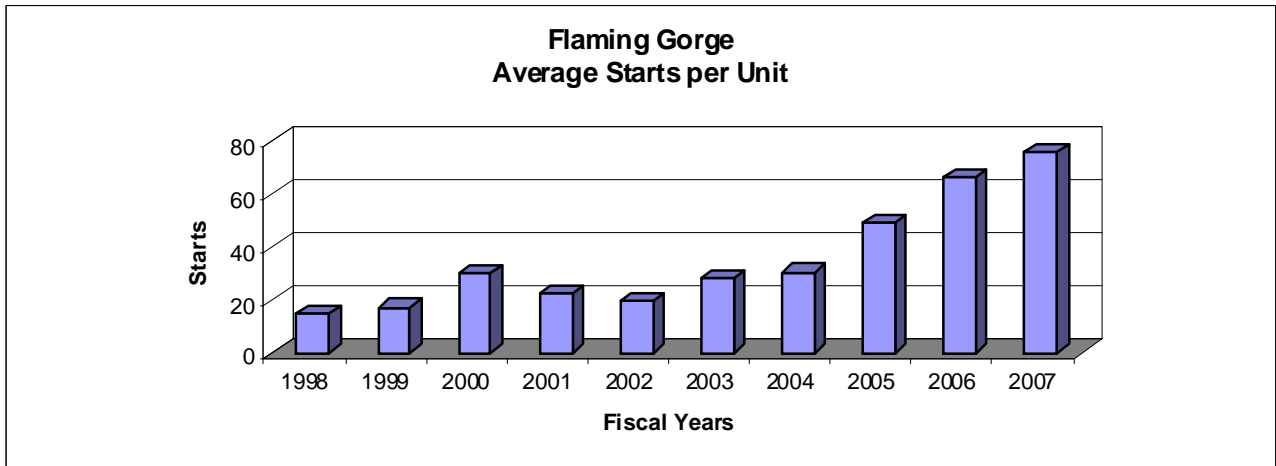


FY-97 - Units out due to plant flooding

**Benchmark 7**  
**Scheduled Outage Factor**



**Starts**





## Benchmark Data Comparison

<b>Fiscal Year 2007</b>	<b>Flaming Gorge Powerplant</b>	<b>Reclamation Average 100- 500 MW Group</b>	<b>Total Reclamation Average</b>	<b>Industry Average</b>	<b>Best Performers</b>
<b>Wholesale Firm Rate Mills/kWh</b>	20.7	Not Applicable	*22.45	Not Available	Not Available
<b>Production Cost as Percentage of Wholesale Firm Rate</b>	2.2%	Not Applicable	12.1%	Not Applicable	Not Applicable
<b>O&amp;M Cost \$/MWh</b>	7.35	4.44	2.76	***63.88	1.00
<b>O&amp;M Costs \$/MW</b>	14,171	10,502	7,847	***21,167	2,897
<b>O&amp;M Equip Work Year per MW</b>	0.10	0.04	0.03	Not Available	0.0
<b>Availability Factor</b>	78.4	83.5	82.3	**88.64	98.5
<b>Forced Outage Factor</b>	0.1	1.2	2.6	**2.61	0.0
<b>Scheduled Outage Factor</b>	21.5	15.4	15.1	**8.74	0.0

\*Weighted by Net Generation

\*\*2006 NERC Average

\*\*\* Energy Information Administration Data