

## **Operating Parameter Matrix**

RMWG April 24, 2007 Joe Bowring Market Monitoring Unit





PJM Unit Parameter Matrix Summary					
Turn Down Ratio = Economic Maximum MW / Econor	n Ratio = Economic Maximum MW / Economic Minimum MW		-		
Parameter	Minimum Down Time (Hrs)	Minimum Run Time (Hrs)	Maximum Daily Starts	Maximum Weekly Starts	Turn Down Ratio
Small Frame CT and Aero CT Units - Up to 29 MW ICAP	2.0 or Less	2.0 or Less	2 or More	14 or More	1.0 or More
Medium Frame CT and Aero CT Units - 30 MW to 65 MW ICAP	2.0 or Less	3.0 or Less	2 or More	14 or More	1.0 or More
Medium-Large Frame CT Units - 65 MW to 125 MW ICAP	3.0 or Less	5.0 or Less	2 or More	14 or More	1.0 or More
Large Frame CT Units - 135 MW to 180 MW ICAP	4.0 or Less	5.0 or Less	2 or More	14 or More	1.0 or More
Combined Cycle Units	4.0 or Less	6.0 or Less	2 or More	11 or More	1.5 or More
Petroleum and Natural Gas Steam Units - Pre-1985	7.0 or Less	8.0 or Less	1 or More	7 or More	3.0 or More
Petroleum and Natural Gas Steam Units - Post-1985	3.5 or Less	5.5 or Less	2 or More	11 or More	2.0 or More
Sub-Critical Coal Units	9.0 or Less	15.0 or Less	1 or More	5 or More	2.0 or More
Super-Critical Coal Units	84.0	24.0 or Less	1 or More	2 or More	1.5 or More



- For steam plants, regardless of fuel type:
  - The average historical values for any of these parameters as offered by the owners for the calendar year 2006 may be used in place of the values in the matrix
  - The historical average is calculated from the market based offers for market based units and from cost based offers for units which made only cost based offers.





- For Combined Cycle plants:
  - A) If the 2006 average historical market based offer parameters are within the limits in the matrix, the unit will be limited to that 2006 historical average. If not, then B) applies.
  - B) If the unit was offered with market based offer parameters for 10% or more of the days (36 days minimum) at a level at or more flexible than the parameters in the matrix, the unit will be limited to that level. If not then C) applies.
  - C) If the 2006 average historical market based offer parameters exceed the limits in the matrix (less flexible than the parameters in the matrix) then the unit will be limited to the level at which the market based parameter was bid to the most flexible level for 10% or more of the days (36 days minimum) at that level.

