

Fourth Addendum to 2002 Baseline RTEP Report

This update to the 2002 RTEP report was completed due to the proposed retirement of over 1000 MW of generation on the PJM system (refer to chart below).

Unit	Capacity
Hudson 3 CT	129
Gould Street	101
Seward 4 & 5	196
Sayreville 4 & 5	229
Delaware 7	126
Delaware 8	124
VCLP NUG	46.6
Burlington 10	261
Wayne CT	56
Warren 3 CT	57
Shawnee CT	20
Blossburg CT	19
Glen Gardner 1-8 CTs	160
Werner 1-4 CTs	212
Gilbert 1-4 CTs	98

Concurrent with these proposed retirement announcements both of the Branchburg 500/230 kV transformers were de-rated by approximately 30% due to excessive heating on tap changer leads. These changes were applied to the reference basecase for the 2002 RTEP report which is a 2007 summer peak system model.

Results of the analysis follow:

1) In 2007, one Branchburg 500/230 kV transformer is overloaded at 102% of emergency rating (730 MVA) for the outage of the parallel transformer. The Branchburg 500/230 kV #2 transformer is also overloaded at 112% of emergency rating for a line fault with stuck breaker condition that results in an outage of Branchburg – Ramapo 500 kV and the Branchburg 500/230 kV #1 transformer. In 2004, one Branchburg 500/230 kV transformer is overloaded at 113% of emergency rating (730 MVA) for the outage of the parallel transformer and both Branchburg 500/230 kV transformers are overloaded for the outage of Branchburg – Deans 500 kV. The temporary solution to resolve the overloads for the summer of 2004 is to install an SPS that will open the Somerville 230 kV breaker for the outage of either Branchburg 500/230 kV transformer or for the outage of Branchburg – Deans 500 kV. The SPS is scheduled to be in-service prior to June 2004. The recommended long term solution is to install a third Branchburg 500/230 kV transformer. The scheduled in-service date is the end of the second quarter 2005.