

Sixth Addendum To 2002 Baseline RTEP Report

The reinforcements described below were required on the PJM system due to requests received within the last six months to retire the following generators. Ongoing analysis may identify the need for additional reinforcements to support these retirements.

Kearny 7 & 8

Sewaren 1, 2, 3, 4

Hudson 1

1. The single contingency involving the loss of the Aldene – Springfield 138 kV circuit results in a voltage drop and voltage magnitude violation at the West Orange, Merion Dr. and Laurel Ave. 138 kV substations under the 2007 load deliverability test for Eastern MAAC. The recommended solution is to add 100 MVAR of capacitors at West Orange 138 kV substation by June 2007. The estimated cost is \$1.0 million.
2. The single contingency involving the loss of the Deans – Brunswick 230kV circuit along with the Brunswick 230/69 kV transformer #3 results in a voltage drop and voltage magnitude violation at the Brunswick and Adams 230 kV substations under the 2007 load deliverability test for Eastern MAAC. The recommended solution is to close the Sunnymeade 230 kV bus tie by June 2007. The estimated cost is \$2.0 million.
3. The double circuit tower line contingency involving the loss of the Hudson – Essex and NJT Meadow – Athenia 230 kV circuits results in an overload on the Linden – North Ave. and Bayonne – Passaic Valley 138kV circuits under the 2007 generation deliverability. The recommended solution is to make the Bayonne reactor a permanent installation by June 2007. The estimated cost is \$2.0 million.
4. The single contingency along with stuck breaker involving the loss of the Hudson – Essex and Hudson – Farragut 230 kV circuits results in an overload on the Hudson – Marion 230/138 kV transformer under the 2007 generation deliverability. The recommended solution is to relocate the X-2250 circuit from Hudson 1-6 bus to Hudson 7-12 bus. The estimated cost is \$3.0 million.
5. The double circuit tower line contingency involving the loss of the Edison – Metuchen “Q” and “R” 138kV circuits results in an overload on the Sewaren 230/138 kV transformer under the 2007 generation deliverability. The recommended solution is to install 230/138 kV transformer at Metuchen substation by June 2007. The estimated cost is \$8.0 million.
6. The Edison – Meadow Rd 138 kV “Q” circuit is normally overloaded under the 2007 generation deliverability. The recommended solution is to upgrade the Edison – Meadow Rd 138kV “Q” circuit by June 2007. The estimated cost is \$0.5 million.
7. The Edison – Meadow Rd 138 kV “R” circuit is normally overloaded under the 2007 load deliverability test for the Eastern MAAC. The recommended solution is to upgrade the Edison – Meadow Rd 138 kV “R” circuit by June 2007. The estimated cost is \$0.5 million.