



First Addendum To 2003 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.

BL England 1, 2, 3

1. The single contingency involving the loss of Corson – Union 138 kV circuit results in an overload on the Corson – Cumberland 138 kV circuit. Also, voltage drop violations occur at Cumberland 230 kV for the single contingency involving the loss of Churchtown – Cumberland 230 kV and at Churchtown 230 kV for the single contingency involving the loss of Churchtown – Chambers 230 kV. The recommended solution is to build a new Cumberland – Dennis 230 kV circuit which replaces the existing Cumberland – Corson 138 kV circuit, a Dennis 230/138 kV transformer, a Dennis 150 MVAR SVC, a Dennis 50 MVAR capacitor, and a new Dennis – Corson 138 kV circuit. The total cost is estimated at \$42.8 million with an expected in-service date of December 2007.
2. For 2008, the Landis – Dorothy 138 kV circuit is normally overloaded, the Dorothy – Lewis 138 kV circuit is overloaded for the single contingency involving the loss of the Churchtown – Cumberland 230 kV circuit, and the Lewis – Minotola 138 kV circuit is overloaded for the single contingency involving the loss of Churchtown – Cumberland 230 kV circuit. Voltage drop violations also occur at Cumberland 230 kV for the single contingency involving the loss of the Churchtown – Cumberland 230 kV circuit. The recommended solution is to build a new Cardiff 230/138 kV transformer, a new Cardiff – Lewis 138 kV circuit, and a new Cardiff 230 kV 50 MVAR capacitor. The total cost is estimated at \$9.6 million with an expected in-service date of December 2007.
3. For the single contingency involving loss of the New Freedom – Cardiff 230 kV circuit, the Landis – Minotola 138 kV circuit is overloaded. The recommended solution is to reconductor the Landis – Minotola 138 kV circuit. The estimated cost is \$0.8 million with an expected in-service date of December 2007.
4. The single contingency loss of the Churchtown – Cumberland 230 kV circuit results in an overload on the Laurel – Woodstown 69 kV circuit. The recommended solution is to reconductor the Laurel – Woodstown 69 kV circuit. The estimated cost is \$5.6 million with an expected in-service date of December 2007.
5. The single contingency loss of the Churchtown – Cumberland 230 kV circuit results in an overload on the Monroe – North Central 69 kV circuit. The recommended solution is to reconductor the Monroe – North Central 69 kV circuit. The estimated cost is \$5.3 million with an expected in-service date of December 2007.
6. The single contingency loss of the Chambers – Churchtown 230 kV circuit results in an overload on the Beckett – Paulsboro 69 kV circuit. The recommended upgrade is to reconductor the Beckett – Paulsboro 69 kV circuit. The estimated cost is \$0.9 million with an expected in-service date of December 2007.