

Retirement of Kearny 7, Kearny 8, Hudson 1, Sewaren 1, Sewaren 2, Sewaren 3 and Sewaren 4

General

PJM has analyzed the impact of the announced retirement of Kearny 7, Kearny 8, Hudson 1, Sewaren 1, Sewaren 2, Sewaren 3 and Sewaren 4. The total generation for these units is 1136 MWs. This document summarizes the reliability analysis for the retirement of these generators.

Network Impacts

The 2005 summer system was studied to determine compliance with applicable reliability criteria. The results are summarized below.

1. Voltage collapse under numerous contingencies.
2. Normal overload on Portland-Greystone 230 kV circuit.
3. Normal overload on Athenia-Saddlebrook 230 kV circuit.
4. Normal overload on the Metuchen-Meadow Rd "Q" 138 kV circuit.
5. Normal overload on the Metuchen-Meadow Rd "R" 138 kV circuit.
6. Normal overload on the Edison-Meadow Rd "Q" 138 kV circuit.
7. Normal overload on the Edison-Meadow Rd "R" 138 kV circuit.
8. Normal overload on both Roseland 230/138 kV transformers.
9. Normal overload on Athenia-East Rutherford 138 kV circuit.
10. Contingency overload on Cedar Grove-Roseland "F" 230 kV circuit for the outage of the Athenia-Roseland "B" 230 kV circuit.
11. Contingency overload on Cedar Grove-Roseland "B" 230 kV circuit for the outage of the Athenia-Roseland "F" 230 kV circuit.
12. Contingency overload on Brunswick-Adams "X" circuit for the outage of the Branchburg-Deans 500 kV circuit and the Deans 500/230 kV transformer.
13. Contingency overload on Portland-Kittatinny 230 kV circuit for the outage of the Portland-Greystone 230 kV circuit.