



Generation Interconnections

This analysis was completed to assess the reliability impact for a new generator interconnecting to the PJM system as a capacity resource.

Network Impacts - 312 MW Injection

Injection of 312MW on the Oak Hall - Piney Grove 138kV transmission line will require the following network upgrades:

1. Construction of a 138kV Ring bus at Oak Hall Substation.
2. Conversion of Pocomoke Substation from 69kV to 138kV.
3. Conversion of Costen Rea Substation from 69kV to 138kV.
4. Conversion of Kings Creek Substation from 69kV to 138 kV.
5. Relocate 138kV-69kV Loretto Substation transformer AT3 to Kings Creek Substation.
6. Upgrade Fruitland - Loretto 69kV line to 125 oC design.
7. Miscellaneous line, substation, and system protection minor upgrades.

Estimated costs for the network upgrades are \$8,000,000.

Estimated time to construct upgrades is 19 months.