

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

Network Impacts - 550 MW Injection

Network impacts for the injection of 550 MW into the Red Lion 500kV Bus were evaluated. The following network impacts were identified:

1. Single contingency loss of the Keeney - Red Lion 500kV circuit overloads the Red Lion 500-230kV transformer. The addition of a second Red Lion 500-230kV transformer is estimated to cost \$8.8 Million.
2. The D15 project contributes approximately 33MW to the contingency overload of the Grays Ferry - Parrish 230kV line. This overload has been identified for previous projects. The total cost to upgrade the Grays Ferry - Parrish 230kV line is estimated to be \$14.7 Million.

The above upgrades will require approximately 36 months to construct.