W1-038 Fair Lawn 138kV

Generation Interconnection

Network Impacts

Queue project W1-038 was studied as a(n) 10.0MW (10.0MW of which was Capacity) injection into PSE&G's system at the Fair Lawn 26.4kV substation. The project was studied on a combined Feasibility/Impact basis which utilizes an AC analysis and incorporates all contingency types. Project W1-038 was evaluated for compliance with reliability criteria for summer peak conditions in 2014. Potential network impacts were as follows:

Generator Deliverability

(Single or N-1 contingencies for the Capacity portion only of the interconnection)

No problems identified

Multiple Facility Contingency

(Double Circuit Tower Line, Line with Failed Breaker and Bus Fault contingencies for the full energy output)

No problems identified

Short Circuit

(Summary form of Cost allocation for breakers will be inserted here if any)

Not required since the generator constants did not change.

System Reinforcements

None.

Contribution to Previously Identified System Reinforcements

(Overloads initially caused by prior Queue positions with additional contribution to overloading by this project. This project may have a % allocation cost responsibility which will be calculated and reported for the Impact Study)

None.