Long Term Firm
System Impact Study Report

For

PJM Transmission Service Request
Queue Position AA1-058

OASIS # 4675070 – 6 MW

March 2015

Preface

The intent of the System Impact Study is to determine a plan, with approximate cost and construction time estimates, to connect the subject generation interconnection project to the PJM network at a location specified by the New Service Customer. As a requirement for interconnection, the New Service Customer may be responsible for the cost of constructing: Network Upgrades, which are facility additions, or upgrades to existing facilities, that are needed to maintain the reliability of the PJM system.

In some instances a New Service Customer may not be responsible for 100% of the identified network upgrade cost because other transmission network uses, e.g. another generation interconnection, merchant transmission upgrade, or transmission service request may also contribute to the need for the same network reinforcement.

General

Ingenco Holdings, LLC, the New Service Customer (NSC), has requested a maximum amount of 6 MW of yearly firm network transmission service on the CPLE to PJM path, beginning 1/1/2015 and ending 1/1/2020. The Point of Receipt (POR) for this request is CPLE and the Point of Delivery (POD) is PJM. This request has been assigned PJM OASIS reference identification 4675070 and was submitted on the PJM OASIS per the PJM Open Access Transmission Tariff (PJM OATT).

OASIS-ID	Start	Stop	Path	POR	POD	MW
4675070	01/01/2015	01/01/2020	CPLE – PJM	CPLE	PJM	6

Cost Summary

The AA1-058 project will be responsible for the following costs:

Description	Total Cost
Allocation for New System Upgrades	$ 0
Contribution for Previously Identified Upgrades	$ 0
Total Costs	**$ 0**

Network Impacts

The Queue Project AA1-058 was studied as a 6.0 MW injection the New Bern unit in CPLE into PJM. Project AA1-058 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AA1-058 was studied with a commercial probability of 100%. Potential network impacts were as follows:

Contingency Descriptions

The following contingencies resulted in overloads:

None.

Generator Deliverability

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

None.

Multiple Facility Contingency

(Double Circuit Tower Line contingencies were studied for the full energy output. The contingencies of Line with Failed Breaker and Bus Fault will be performed for the Impact Study.)

None.

Contribution to Previously Identified Overloads

(This project contributes to the following contingency overloads, i.e. "Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)

None.

New System Reinforcements

(Upgrades required to mitigate reliability criteria violations, i.e. Network Impacts, initially caused by the addition of this project generation)

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.

Service cannot be assured until June 1, 2018.