

***PJM Generator Interconnection Request
Queue #R35
Robbins 138kV
Feasibility/Impact Study***

**436001
September 2007**

R35 Robbins 138kV Feasibility/Impact Study

General

Robbins Community Power, LLC has requested interconnection of 50 MW biomass fired steam generator located at 13400 S. Kedzie Avenue, Robbins, Cook County, Illinois.

The intent of the Feasibility / Impact study is to determine system reinforcements and associated costs and construction time estimates required to facilitate the addition of the new generating plant to the transmission system. The reinforcements include the direct connection of the generator to the system and any network upgrades necessary to maintain the reliability of the transmission system.

Direct Connection

The Robbins generating facility is connected to the ComEd distribution system via the 138kV line 7615. Revenue metering and SCADA requirements shall be installed as described in the ComEd interconnection report for this project dated April 30, 2007. The Interconnection requirements are described in a separate Interconnection Agreement between ComEd and Robbins Community Power, LLC.

Network Impacts

The R35 project was studied as a capacity injection of 50 MW into the ESS G-311 Robbins substation. Project R35 was evaluated for compliance with reliability criteria for summer peak conditions in 2011. Potential network impacts were as follows:

Generator Deliverability

No problems identified

Multiple Facility Contingency

No problems identified

Contribution to Previously Identified Overloads

No problems were identified

Short Circuit

There were no overdutied circuit breakers identified on the transmission system due to the interconnection of the R35 project.

New System Reinforcements

None

Contribution to Previously Identified System Reinforcements

None

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