



An Overview of Generator Interconnections to the Distribution System

Kearney, Nebraska

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Nebraska Public Power District

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Generator Interconnections must be reviewed to assure the electrical system can accommodate the Generator

- Interconnection to the Transmission System (115 kv and above) are the jurisdiction of the Southwest Power Pool (SPP)
- Interconnections to the Distribution System (Below 115 kv) are reviewed by the Local Utility and NPPD



Interconnection to the Transmission System

(115 kv and above)

- Are the jurisdiction of the Southwest Power Pool (SPP)
- These interconnections follow the SPP process
 - Complete application
 - Provide deposits
- Interconnection studies are conducted by SPP
 - Select Study
 - Provide Study Deposits



Interconnection to the Distribution Systems

- The Local utility with the assistance of NPPD will study the impact of the interconnection on the Distribution system
- Determine upgrades required to the Distribution System
- Determine if the interconnection impacts the Transmission System
 - If the interconnection to the Distribution System impacts the Transmission System, then SPP is notified as an impacted system.
 - Any project above 20 MW is assumed to impact the Transmission System



Interconnection Customer's Cost Responsibility

- The Generator Interconnection Customer will be responsible for costs associated with:
 - All studies required to review the interconnect of the generator to the Distribution System
 - All upgrades to the Distribution System to accommodate the Generator interconnection
- If Transmission System is impacted the Generator Interconnection Customer will be responsible for costs associated with:
 - SPP studies required to review the Generators impact to the Transmission System
 - Allocated share of upgrades to the Transmission System to accommodate the Generator interconnection

Interconnection Process Summary



- The Transmission System (115kv and above) uses the SPP process
- The Distribution System (below 115 kv), uses local utility and NPPD's process
- Interconnections must be studied to assure the system can accommodate the interconnection
- Interconnection customer responsible for all study costs and all system upgrades to accommodate the interconnection
- To initiate the process contact your Local Utility and NPPD

Questions?

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