



***Facility Study for Generation
Interconnection Request
GEN-2008-002***

***SPP Tariff Studies
(#GEN-2008-002)***

July 2009

Summary

Pursuant to the tariff and at the request of the Southwest Power Pool (SPP), Kansas City Power & Light Company (KCP&L) performed the following Facility Study to satisfy the Facility Study Agreement executed by the requesting customer and SPP for SPP Generation Interconnection request Gen-2008-002. The request for interconnection was placed with SPP in accordance SPP's Open Access Transmission Tariff, which covers new generation interconnections on SPP's transmission system.

Customer Facilities

This is an existing generating unit with a 650MW rating. The customer has requested to uprate the unit to 715MW rating.

KCP&L has determined that no circuit breakers will have their short circuit duty ratings exceeded due to the addition of the incremental generation. KCP&L has also determined that no new interconnection facilities are required for the addition of the incremental generation.



**Kansas City Power & Light Company
Facility Study for SPP
Generation Interconnection Request
GEN-2008-002**

Prepared by: KCP&L Transmission Planning
July 10, 2009

Executive Summary

Kansas City Power & Light requested a Facilities Study for the purpose of interconnecting 65MW of additional coal fired generation capacity within the control area of Kansas City Power & Light (KACP) located in Platte County, Missouri. The proposed point of interconnection is the Iatan 345kV substation. The proposed in-service date is January 1, 2009. This is an existing generating unit with a 650MW rating. The customer has requested to uprate the unit to 715MW rating.

The Southwest Power Pool evaluated this request to interconnect the 65 MW of generation to the Iatan 345kV substation. The System Impact Study was completed in August 2008. The System Impact Study indicated that no additional network upgrades were required to accommodate the increased generation capacity at the Iatan 345kV bus.

KCP&L Transmission Planning has determined that no circuit breakers will have their short circuit duty ratings exceeded due to the addition of the incremental generation.

KCP&L Transmission Planning has determined that no new interconnection facilities are required for the addition of the incremental generation.

The total cost of the interconnection facilities for this interconnection request is approximately \$0.