



Integrated Resource Plan

Generation Technology Reports

Strategic Siting Study

Burns & McDonnell, September 2004

****PUBLIC VERSION****

Generation Technology Reports for AmerenUE Integrated Resource Planning

Summary:

These reports summarize the various analyses and studies that were completed to provide generation technology inputs for the AmerenUE integrated resource planning process. The studies included assessments of various potential generation technologies to supply capacity for AmerenUE. The assessments consisted of both “screening level” and, in some cases, detailed evaluations of different generation technologies. Several of the evaluations included a comparison of technical features, as well as a comparison of costs, performance and emissions.

The eight reports, in chronological order, are:

1. **Venice Combined Cycle Study** – Black & Veatch, December 2002
2. **Strategic Siting Study** – Burns & McDonnell, September 2004
3. **Missouri Pumped Storage Project Concept Study** – Montgomery Watson Harza, September 2004
4. **Rush Island Unit 3 Feasibility Study** – Black & Veatch, October 2004
5. **Rush Island Unit 3 Conceptual Cost & Performance Study** – Sargent & Lundy, October 2004
6. **Generation Technology Assessment** – Burns & McDonnell, November 2004
7. **Nuclear Industry Overview & IRP Analysis Parameters** – Navigant Consulting, June 2005
8. **IGCC Technology Assessment Report** – Sargent & Lundy, September 2005

Report Number: 2

Deliverable: Strategic Siting Study

Date Completed: September 2004

Author: Burns & McDonnell

Ameren Services retained Burns & McDonnell to perform a siting study to identify a location for a potential 750MW coal-fired, base load generation facility. The report summarizes the findings of the siting process and provides a recommendation for the preferred site based on criteria including: transmission interconnection capabilities, economical fuel delivery, water supply and discharge, land availability, existing development, environmental impacts and air quality.

DRAFT

AmerenUE



Strategic Siting Study

September 2004

Project 37160





September 17, 2004

Mr. Rick Smith and
Mr. Scott Plocher
AmerenUE
One Ameren Plaza
1901 Choteau Avenue
PO Box 66149
St. Louis, MO 63166-6149

Project 37160
AmerenUE Strategic Siting Study Draft Report

Mr. Smith and Mr. Plocher:

Burns & McDonnell is pleased to submit our Strategic Siting Study draft report to AmerenUE. The completed siting study resulted in the identification of a preferred location for a potential 750 MW coal-fired generating facility. The existing Rush Island Power Plant site was identified as the preferred location of the future facility based on the existing infrastructure potentially available to support the future project. Furthermore, significant environmental impacts at the site are not anticipated due to the addition of another unit at a brownfield location.

The attached report summarizes the findings of the siting study and provides details relating to the siting process. If you have any questions regarding the report, please contact me at 816-822-3392.

It is a pleasure to be of service to AmerenUE in this matter.

Sincerely,

Jeff Greig
Project Manager