

FORENSIC INVESTIGATION AND ROOT CAUSE ANALYSIS

December 14, 2005 Incident
Upper Reservoir Dike
Taum Sauk Plant

FERC Project 2277

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REPORT
FORENSIC INVESTIGATION AND
ROOT CAUSE ANALYSIS
DECEMBER 14, 2005 INCIDENT
UPPER RESERVOIR DIKE
TAUM SAUK PLANT
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1.0 INTRODUCTION

This Report documents the results of a forensic investigation into the root cause of the breach of the Upper Reservoir Dike at the Taum Sauk Plant, near Lesterville, Missouri, on December 14, 2005. The investigation was conducted by Paul C. Rizzo Associates, Inc. (RIZZO) between January 2 and February 28, 2006, at the request of Union Electric Company doing business as AmerenUE (AmerenUE) as required under 18 CFR 12.10 (a)(2)(i) and in response to a specific request of the Federal Energy Regulatory Commission (FERC).

RIZZO utilized several subcontractors and has included into this report the investigative work associated with project instrumentation, performed by Siemens Power Generation, Inc. (Siemens). Siemens focused on the instrumentation and control aspects of the investigation. While the Siemens work has been integrated into this Report, their actual report to AmerenUE and RIZZO is included in *Appendix A*.

