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July 19, 2011

**VIA ELECTRONIC FILING**

Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, D.C. 20426

Re: Entergy Services, Inc.; Docket No. ER05-1065-000  
Report of AFC-Related Errors

Dear Secretary Bose:

Pursuant to the Federal Energy Regulatory Commission's ("Commission") April 24, 2006 Order in *Entergy Services, Inc.*, 115 FERC ¶ 61,095 (2006) ("April 24 Order"), Entergy Services, Inc., acting as agent for the Entergy Operating Companies,<sup>1</sup> hereby notifies the Commission it has recently become aware of the following AFC-related error.

In the April 24 Order, the Commission conditionally accepted Entergy's proposal to establish an Independent Coordinator of Transmission ("ICT") for the Entergy System. As the Commission is aware, the Southwest Power Pool, Inc. acts as Entergy's ICT. In the April 24 Order, the Commission imposed an obligation for Entergy to "notify the Commission, the ICT and the Users Group within 15 days if Entergy discovers that it has lost data, or reported inaccurate data, or otherwise believes that it has mismanaged data." See April 24 Order at P 110. Accordingly, Entergy submits the following summaries of mismanaged data. Additionally, an update to the filing made on August 13, 2010 is included.

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<sup>1</sup> The Entergy Operating Companies include: Entergy Arkansas, Inc., Entergy Gulf States Louisiana, LLC, Entergy Louisiana, LLC, Entergy Mississippi, Inc., Entergy New Orleans, Inc., and Entergy Texas, Inc. The Entergy Operating Companies and Entergy Services, Inc. are referred to collectively herein as "Entergy."

### **Incorrect Generator Modeling**

On July 5, 2011, the Independent Coordinator of Transmission (ICT) identified that the RFCALC Lite output files did not include Union Power generators in the list of available sources. Upon investigation, Entergy determined that the EMS Network Model incorrectly identified the generators in Entegra Power Group LLC (PUPP) as Independent Power Producers (IPPs). RFCALC is designed to turn all IPP generators to OFF Automatic Generation Control (AGC) so that IPP resources are dispatched by reservations and schedules only. The Source definition for PUPP control area in the RFCALC process is defined as a set of generators which are on AGC. As a result of this error, no AGC generators were found for PUPP source and thus RFCALC was unable to model any reservations or schedules on PUPP in Operating and Planning Horizons of the AFC process. This error was introduced July 5, 2011 at 8:30 AM when changes were made to the EMS Network Model. The error was corrected by Entergy by correcting the IPP designation in the EMS Network Model July 06, 2011 at 9:30 AM. This error potentially impacted customers that had transmission service requests queued during this time period for operating and planning horizon of AFC calculations. The error could have impacted any flowgate but it is not technically feasible to determine the exact impact.

### **Generator Dispatch**

On July 7, 2011, the ICT contacted Entergy questioning the dispatch of Union Power generators in the daily peak models for July 16, 2011. Upon further investigation, Entergy discovered that the area interchange control for PUPP was being turned off inadvertently in RFCALC due to a software issue. This error caused the dispatch of PUPP generators to be different from the expected dispatch computed using reservations and schedules, for some time points. This software error in RFCALC potentially resulted in inaccurate flows used for AFC calculations for some flowgates. A manual work around was put in place July 7, 2011 at 5:05 PM for the Operating Horizon and 5:20 PM for the Planning Horizon. The permanent software fix has been provided by Alstom (formerly AREVA) and is being tested. This error may have been introduced on May 30, 2007 when a new version of RFCALC software was deployed. This error potentially affected any customer requesting transmission service in operating and planning horizon. It is not technically feasible to determine the exact impact on AFC values.

### **EMS Network Model**

On August 13, 2010, Entergy filed an error report under this docket identifying that 12 breakers had been identified that were incorrectly modeled in the EMS network Model. Specifically, the filing stated:

“On July 30, 2010, the ICT contacted Entergy and requested review of certain line outages. Entergy identified twelve breakers that were incorrectly modeled in the network model used in the Operating and Planning Horizons. These breakers were incorrectly designated as normally open in the network model resulting in RFCALC model incorrectly modeling as outages. The errors may have impacted the base flow and response factors for Operating and Planning Horizons; however, the impact, if any, would be minimal because only four of these resulted in a loss of a total of 25

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MW. The others resulted in topology changes but no loss of load. Entergy is programmatically reviewing normally open breakers to determine if they are being correctly modeled. The review is extensive and may result in identifying additional breakers that are modeled incorrectly. The results and status of the review will be provided to the ICT and the Users Group. Upon completion of the effort, a baseline will be established and an annual review performed consistent with the process used in the Study Horizon. Entergy will submit additional information to the Commission regarding this error upon completion of the review and implementation of corrective actions”.

The review to establish the baseline was completed in January 2011. Out of a total of 2618 transmission devices including lines, transformers and zero impedance branches reviewed 21 needed corrections. All corrections were completed by June 2011. It is not technically feasible to determine the exact impact of the errors to AFC values.

In the event that further information is needed, please do not hesitate to contact the undersigned.

Respectfully submitted,  
/s/ David L. Fishel  
David L. Fishel  
Assistant General Counsel

cc: Southwest Power Pool, Inc.  
ICT Users Group  
Service List; Docket No. ER05-1065-000

## **CERTIFICATE OF SERVICE**

I hereby certify that I have this 19<sup>th</sup> day of July, 2011, served the foregoing document upon the Southwest Power Pool, Inc., the ICT Users Group, and each person designated on the official service list compiled by the Secretary in this proceeding.

/s/ Nicole A. Livaccari  
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