



**Entergy
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OCAN079204

U. S. Nuclear Regulatory Commission
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Subject: Arkansas Nuclear One - Units 1 and 2
Docket Nos. 50-313 & 50-368
License Nos. DPR-51 & NPF-
ANO-2 Onsite Distribution Study
(TAC Nos. M82164 and M82165)

Gentlemen:

In letter dated April 8, 1992 (OCAN049206), and the supplement to the Licensee Event Report 50-313/91-010-01 (letter ICAN039206 dated March 17, 1992) Entergy Operations submitted a report describing the long-term plans to ensure that the 161 kV offsite power source will meet the requirements of General Design Criterion (GDC) 17 and 5 of Appendix A of 10CFR50 for Arkansas Nuclear One, Units 1 and 2 (ANO-1&2) during summer load conditions. In letter dated May 5, 1992, the NRC requested additional information with regards to the long-term corrective action plans. This information is required so that the Staff can complete its review of the corrective action plans and determine if the requirements of GDC 17 and 5 will be met.

One of the requests was to provide the study supporting the conclusion that the 161 kV system meets the requirements of GDC 17 and 5. In letter dated June 19, 1992 (OCAN069204), Entergy Operations stated that the study was comprised of two evaluations. The first evaluation dealt with the expected voltage levels and MVA short circuit capacity of the ANO offsite 161 kV transmission system. Excerpts of this evaluation were provided with the response to the request. The second evaluation uses the results of the first evaluation to assess whether the ANO onsite distribution system can supply acceptable voltages to the auxiliary loads within the plant during accident conditions.

The results of the onsite distribution study for the case where ANO-1 accident safety loads are served from S/U-2 (and the 161 kV transmission system) while ANO-2 safe shutdown loads are also served from S/U-2 were provided in letter OCAN069204. In this letter, Entergy Operations committed to provide a similar onsite distribution study for the case where ANO-2 accident safety loads are served from S/U-2 along with ANO-1 safe shutdown loads. The purpose of this submittal is to provide this onsite distribution study.

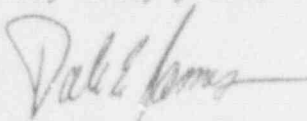
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The results of the study indicate that for the worst case abnormal offsite transmission system voltage level, adequate voltage is delivered to both units' safety loads. No actuation of the Millstone undervoltage relays would occur. Therefore, based on this study and the previously discussed evaluations/studies, the 161 kV system will meet the requirements of GDC 17 and 5.

If you have any additional questions or require further information concerning this issue, please contact my office.

Very truly yours,


James J. Fisicaro
Director, Licensing

JJF/RWC/sjf
Attachment

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