



Entergy Operations, Inc.
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Dale E. James
Acting Director,
Nuclear Safety Assurance

Proprietary Information Enclosed

2CAN080501

August 4, 2005

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

SUBJECT: Supplement to License Amendment Request
Criticality Analysis for Cask Loading Restrictions
Arkansas Nuclear One, Unit 2
Docket No. 50-368
License No. NPF-6

- REFERENCES:**
1. Entergy letter to the NRC dated July 21, 2005, License Amendment Request To Add Cask Loading Restrictions (2CAN070503)
 2. NRC Regulatory Issue Summary 2005-05, *Regulatory Issues Regarding Criticality Analyses for Spent Fuel Pools and Independent Spent Fuel Storage Installations*

Dear Sir or Madam:

By letter (Reference 1), Entergy Operations, Inc. (Entergy) proposed a change to the Arkansas Nuclear One, Unit 2 (ANO-2) Technical Specifications (TSs) in response to NRC Regulatory Issue Summary 2005-05 (Reference 2). The proposed change modifies TS 3.9.12, *Fuel Storage*, to define spent fuel loading restrictions for the Holtec International HI-STORM 100 Cask System for 32 assembly Multi-Purpose Canisters (MPC-32).

On July 26, 2005, members of your staff requested that Entergy provide a copy of the criticality analysis that was performed in support of the application. Portions of the calculation are considered proprietary in accordance with 10 CFR 2.390, *Public Inspections, Exemptions, Requests for Withholding*. Attachment 1 is the proprietary version of the criticality analysis which is requested to be withheld from public disclosure. Attachment 2 contains a redacted non-proprietary version of this criticality analysis. Attachment 3 contains the Holtec affidavit substantiating the basis for withholding the document from public disclosure.

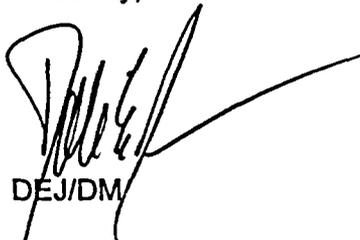
The original no significant hazards consideration included in Reference 1 is unaffected by the information contained in this letter. There are also no new commitments contained in this letter.

Proprietary Information Enclosed

If you have any questions or require additional information, please contact Dana Millar at 601-368-5445.

I declare under penalty of perjury that the foregoing is true and correct. Executed on August 4, 2005.

Sincerely,



DEJ/DM

Attachments:

1. Part 50 Criticality Analysis of the MPC-32 for ANO Unit 2 - Proprietary
2. Part 50 Criticality Analysis of the MPC-32 for ANO Unit 2 – Non-Proprietary
3. Holtec Affidavit Regarding Withholding from Public Disclosure

cc: Dr. Bruce S. Mallett
Regional Administrator
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

NRC Senior Resident Inspector
Arkansas Nuclear One
P. O. Box 310
London, AR 72847

U. S. Nuclear Regulatory Commission
Attn: Mr. Drew Holland
MS O-7 D1
Washington, DC 20555-0001

Mr. Bernard R. Bevill
Director Division of Radiation
Control and Emergency Management
Arkansas Department of Health
4815 West Markham Street
Little Rock, AR 72205

Attachment 1

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Part 50 Criticality Analysis of the MPC-32 for ANO Unit 2 – Proprietary