



Entergy

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OCAN030502

March 3, 2005

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555-0001

Subject: Response to Request for Additional Information Regarding Request for  
General Design Criterion 57 Exemption  
Arkansas Nuclear One - Units 1 and 2  
Docket Nos. 50-313 and 50-368  
License Nos. DPR-51 and NPF-6

Dear Sir or Madam:

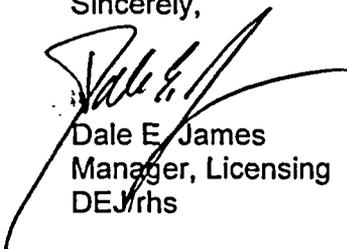
By letter dated October 30, 2003, as supplemented, Entergy Operations, Inc. (Entergy) requested an exemption from the requirements of General Design Criterion (GDC) 57 to allow leaving several manually operated containment isolation valves open during plant operation. The letter documented that leaving the subject valves (steam trap isolations) open during plant operation would have no impact on the consequences of any of the events analyzed in the Safety Analysis Reports of either Arkansas Nuclear One unit.

On February 17, 2005, Entergy received, via e-mail, a request for additional information regarding the above referenced exemption request. The response to that request is contained in the attachment to this letter.

If you have any additional questions, please contact Richard Scheide at 479-858-4618.

There are no commitments contained in this submittal.

Sincerely,



Dale E. James  
Manager, Licensing  
DEJ/rhs

Attachment

A001

cc: Dr. Bruce S. Mallett  
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U. S. Nuclear Regulatory Commission  
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NRC Senior Resident Inspector  
Arkansas Nuclear One  
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U.S. Nuclear Regulatory Commission  
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U.S. Nuclear Regulatory Commission  
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**Attachment  
to  
OCAN030502**

**Request for Additional Information  
Regarding General Design Criterion 57 Exemption Request**

**NRC Question:**

By letter dated October 30, 2003, as supplemented, you requested an exemption from the requirements of General Design Criterion (GDC) 57 for several manual containment isolation valves (CIVs), which you would like to leave open during plant operation. Specifically, these CIVs are associated with the emergency feedwater (EFW) system steam traps and the atmospheric dump valve (ADV) drain steam traps. GDC 57 states that these valves shall be either automatic, or locked closed, or capable of remote manual operation.

For the CIVs associated with the EFW system steam traps, you indicated that operating with the EFW steam trap CIVs closed could compromise the operability of the EFW pump turbine due to condensate buildup. However, for the CIVs associated with the ADV drain steam traps, no similar justification is provided. Therefore, please provide your basis for the need for the exemption for these CIVs including any plant components and/or system(s) that could be adversely affected and how they could be affected (by leaving the CIVs associated with the ADV drain steam traps closed during plant operation).

**ANO Response:**

As stated in our previous correspondence, the "A" steam generators for both ANO units have a steam trap upstream of their associated atmospheric dump valve (ADV) with an inlet isolation valve subject to GDC 57. These steam traps are installed in the low points of the steam lines for the purpose of draining any condensate that might build up in the line. The tailpipes downstream of the subject ADVs turn upward to direct the discharge through the roof to atmosphere. Although there are no additional components downstream of the ADVs, operating with the referenced steam traps isolated would result in condensate buildup upstream of the valves, thereby causing the potential for water hammer when the valves are opened that could damage the piping associated with the ADV.