

**From:** Thomas Alexion  
**To:** MILLAR, DANA  
**Date:** 7/24/03 9:38AM  
**Subject:** Spent Fuel Pool Loading Pattern RAI -Mechanical and Civil Engineering Branch

Dana,

See the attached RAI.

Tom

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**Subject:** Spent Fuel Pool Loading Pattern RAI -Mechanical and Civil Engineering Branch  
**Creation Date:** 7/24/03 9:38AM  
**From:** Thomas Alexion  
**Created By:** TWA@nrc.gov

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**REQUEST FOR ADDITIONAL INFORMATION**  
**MECHANICAL AND CIVIL ENGINEERING BRANCH**  
**AMENDMENT REQUEST TO REVISE THE SPENT FUEL POOL LOADING PATTERN**  
**ARKANSAS NUCLEAR ONE, UNIT 2**

1. In the amendment request, you are proposing to reduce the fresh fuel assembly initial enrichment limit to less than or equal to  $4.55 \pm 0.05$  weight percent. Indicate whether the total weight of the fuel assemblies supported by the spent fuel racks will increase as a result of the proposed request. If the total weight of the fuel assemblies is increased, what are the affects on the spent fuel racks and the spent fuel pool structure due to the increased weight?
2. Lateral motion of the storage racks under postulated seismic conditions could potentially alter the spacing between racks. Indicate whether you have performed a structural rack dynamic analysis to calculate the required spacing between racks for your criticality calculations. If this analysis has been performed, discuss the methodologies and assumptions used for the analysis, and provide a summary of the analysis results. If you have not performed a structural rack dynamic analysis, provide justification as to why the spacing between the racks need not be verified in the revised configuration.