

February 23, 2012

Mr. Anthony L. Patko
Director, Licensing
NAC International, Inc.
3930 East Jones Bridge Road
Norcross, GA 30092

SUBJECT: SECOND REQUEST FOR ADDITIONAL INFORMATION FOR NAC INTERNATIONAL, INC. MAGNASTOR[®] CASK SYSTEM, CERTIFICATE OF COMPLIANCE NO. 1031 – AMENDMENT NO. 3 (TAC NO. L24470)

Dear Mr. Patko:

By letter dated August 26, 2010 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML102420569), as supplemented February 4, 2011 (ML11138A224), February 16, 2011 (ML110480498), and October 3, 2011 (ML11287A020), NAC International, Inc. (NAC) submitted an amendment request to the U.S. Nuclear Regulatory Commission (NRC) in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 72.244 to amend Certificate of Compliance (CoC) No. 1031. This amendment would revise authorized contents to include pressurized water reactor (PWR):

- damaged fuel contained in damaged fuel cans that are placed in a damaged fuel (DF) basket assembly;
- fuel assemblies with nonfuel hardware per the expanded definition in this application; and
- fuel assemblies with up to five activated stainless steel fuel replacement rods at a maximum burnup/exposure of 32.5 GWd/MTU.

The first item in the above bulleted list is required to accommodate fuel designated for dry storage at Duke McGuire, Duke Catawba and the Zion Station. The second item in the above bulleted list is required to accommodate hardware nomenclature for fuel designated for dry storage at the Zion Station. The last bulleted item is required to accommodate fuel designated for dry storage at the Zion Station. The amendment request initially included as contents, PWR fuel assembly average burnup up to 70 GWd/MTU. However, in the October 3, 2011 response, NAC elected to withdraw its request to increase the allowable burnup of the fuel contents to 70 GWd/MTU. Consequently, the affected text in Revision 11B of the application was restored to pre-Amendment 3 contents.

This amendment would also revise Paragraph 4.3.1 (i), Appendix A, Technical Specifications (TS), to clarify that the maximum design basis earthquake accelerations of 0.37g in the horizontal direction (without cask sliding) and 0.25g in the vertical direction at the independent spent fuel storage installation (ISFSI) pad top surface do not result in cask tip-over. In a letter dated April 28, 2011, the NRC acknowledged receipt of your amendment request and provided a proposed schedule for our review.

In connection with the staff's review, we need the information identified in the enclosures to this letter. We request that you provide this information by March 22, 2012. Inform us at your earliest convenience, but not later than March 8, 2012, if you are not able to provide the information by that date. To assist us in re-scheduling your review, you should include a new proposed submittal date and the reasons for delay.

Please reference Docket No. 72-1031 and TAC No. L24470 in future correspondence related to this request. The staff is available to clarify these questions, and if necessary to meet and discuss your proposed responses.

If you have any questions regarding this matter, please contact me at (301) 492-3562.

Sincerely,

/RA/

Pamela Longmire, Ph.D., Project Manager
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket No.: 72-1031

TAC No.: L24470

Enclosures: 1. RAI (NON-PROPRIETARY)
2. RAI (PROPRIETARY)

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Pamela Longmire, Ph.D., Project Manager
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