

July 17, 2025

U.S. Nuclear Regulatory Commission
Director, Division of Spent Fuel Management
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852-2738

Attn: Document Control Desk

Subject: Submission of a Supplement to the Nuclear Regulatory Commissions Request for Additional Information for NAC International Universal Storage System (UMS) Amendment No. 10

Docket No. 72-1015
CAC/EPID - 001028/L-2023-LLA-0154

- References:
1. U.S. Nuclear Regulatory Commission (NRC) Certificate of Compliance (CoC) No. 1015 for the NAC International Universal Storage System (UMS) System, Amendment No. 9 (Renewal), Revision 0, June 11, 2024
 2. NAC-UMS System Final Safety Analysis Report (FSAR), Revision 18, NAC International, November 2024
 3. ED20230029, 10 CFR 72.242 Reportable Licensing Basis Non-Mechanistic Tip-over Evaluation Deficiency for the NAC-UMS and MAGNASTOR Dry Cask Storage Systems, March 10, 2023
 4. ED20230124, Submission of an Amendment Request for the NAC International Universal Storage System (UMS) Amendment No. 10, October 10, 2023
 5. ED20230127, Submission of Data Files to Support the Nuclear Regulatory Commission's (NRC) Review of NAC-UMS Amendment No. 10 (Submittal 23A), October 10, 2023
 6. ED20240026, Supplement to the Amendment Request for the NAC International Universal Storage System (UMS) Amendment No. 10, February 13, 2024
 7. U.S. Nuclear Regulatory Commission, Request for Additional Information for the Technical Review of the Application for Amendment Nos. 5 to 9, Revision No. 1, and Amendment No. 10, Revision 0, to Certificate of Compliance No. 1015, (Cost Activity Code System/Enterprise Project Identifier Nos. 001028/L-2023-LLA-0154), May 20, 2024
 8. ED20240086, Submission of Responses to the Nuclear Regulatory Commission Request for Additional Information for NAC International Universal Storage System (UMS) Amendment No. 10, June 26, 2024

ED20250095

NAC International Inc. (NAC) hereby submits a supplement to our responses to the NRC Request for Additional Information (RAI) issued on May 20, 2024 (Reference 7). This supplement makes corrections to the cask tip-over evaluation due to an incorrect parameter used in the computation of bending stresses for PWR fuel. The revised results show that the PWR high burnup fuel rods remain structurally adequate during the cask tip-over accident event.

This submittal includes copies of both the proprietary and non-proprietary submittal. Consistent with NAC administrative practice, this proposed FSAR revision is numbered to uniquely identify the applicable changed pages. Additionally, revision bars mark the FSAR text changes on the Revision UMS-25A pages. Per Attachment 1 to this letter, NAC requests information in Enclosures 1 and 3 to be withheld from public disclosure per 10 CFR 2.390. In accordance with NAC's administrative practices, upon final acceptance of this application, 23A, 24A and 25A changed pages will be reformatted and incorporated into the next revision of the NAC-UMS FSAR.

If you have any comments or questions, please contact me on my direct line at 678-328-1252.

Sincerely,

Heath Baldner
Director, Licensing
Engineering

Attachment 1 – NAC International Inc. Affidavit Pursuant to 10 CFR 2.390

Enclosures:

Enclosure 1 – Supporting Calculations for the NAC-UMS FSAR, Revision 25A

Enclosure 2 – List of FSAR Changes, NAC-UMS FSAR, Revision 25A

Enclosure 3 – LOEP and FSAR Changed Pages, NAC-UMS FSAR Revision 25A

NAC INTERNATIONAL INC.
AFFIDAVIT PURSUANT TO 10 CFR 2.390

George Carver (Affiant), Vice President, Engineering and Support Services, of NAC International, hereinafter referred to as NAC, at 2 Sun Court, Suite 220, Peachtree Corners, Georgia 30092, being duly sworn, deposes and says that:

1. Affiant has reviewed the information described in Item 2 and is personally familiar with the trade secrets and privileged information contained therein, and is authorized to request its withholding.
2. The information to be withheld includes the following NAC Proprietary Information that is being provided to support the technical review of NAC's Request for a Certificate of Compliance (CoC) (No. 1015) for the NAC International NAC-UMS Cask System.
 - Enclosure 1 – Supporting Calculations for the NAC-UMS Revision 25A
 - Enclosure 3 – LOEP and FSAR Changed Pages, NAC-UMS FSAR Revision 25A

NAC is the owner of the information contained in the above documents. Thus, all of the above identified information is considered NAC Proprietary Information.

3. NAC makes this application for withholding of proprietary information based upon the exemption from disclosure set forth in: the Freedom of Information Act ("FOIA"); 5 USC Sec. 552(b)(4) and the Trade Secrets Act; 18 USC Sec. 1905; and NRC Regulations 10 CFR Part 9.17(a)(4), 2.390(a)(4), and 2.390(b)(1) for "trade secrets and commercial financial information obtained from a person, and privileged or confidential" (Exemption 4). The information for which exemption from disclosure is herein sought is all "confidential commercial information," and some portions may also qualify under the narrower definition of "trade secret," within the meanings assigned to those terms for purposes of FOIA Exemption 4.
4. Examples of categories of information that fit into the definition of proprietary information are:
 - a. Information that discloses a process, method, or apparatus, including supporting data and analyses, where prevention of its use by competitors of NAC, without license from NAC, constitutes a competitive economic advantage over other companies.
 - b. Information that, if used by a competitor, would reduce their expenditure of resources or improve their competitive position in the design, manufacture, shipment, installation, assurance of quality or licensing of a similar product.
 - c. Information that reveals cost or price information, production capacities, budget levels or commercial strategies of NAC, its customers, or its suppliers.
 - d. Information that reveals aspects of past, present or future NAC customer-funded development plans and programs of potential commercial value to NAC.
 - e. Information that discloses patentable subject matter for which it may be desirable to obtain patent protection.

The information that is sought to be withheld is considered to be proprietary for the reasons set forth in Items 4.a, 4.b, and 4.d.

5. The information to be withheld is being transmitted to the NRC in confidence.

NAC INTERNATIONAL INC.
AFFIDAVIT PURSUANT TO 10 CFR 2.390

6. The information sought to be withheld, including that compiled from many sources, is of a sort customarily held in confidence by NAC, and is, in fact, so held. This information has, to the best of my knowledge and belief, consistently been held in confidence by NAC. No public disclosure has been made, and it is not available in public sources. All disclosures to third parties, including any required transmittals to the NRC, have been made, or must be made, pursuant to regulatory provisions or proprietary agreements, which provide for maintenance of the information in confidence. Its initial designation as proprietary information and the subsequent steps taken to prevent its unauthorized disclosure are as set forth in Items 7 and 8 following.
7. Initial approval of proprietary treatment of a document/information is made by the Vice President, Engineering, the Project Manager, the Licensing Specialist, or the Director, Licensing – the persons most likely to know the value and sensitivity of the information in relation to industry knowledge. Access to proprietary documents within NAC is limited via “controlled distribution” to individuals on a “need to know” basis. The procedure for external release of NAC proprietary documents typically requires the approval of the Project Manager based on a review of the documents for technical content, competitive effect and accuracy of the proprietary designation. Disclosures of proprietary documents outside of NAC are limited to regulatory agencies, customers and potential customers and their agents, suppliers, licensees and contractors with a legitimate need for the information, and then only in accordance with appropriate regulatory provisions or proprietary agreements.
8. NAC has invested a significant amount of time and money in the research, development, engineering and analytical costs to develop the information that is sought to be withheld as proprietary. This information is considered to be proprietary because it contains detailed descriptions of analytical approaches, methodologies, technical data and/or evaluation results not available elsewhere. The precise value of the expertise required to develop the proprietary information is difficult to quantify, but it is clearly substantial.
9. Public disclosure of the information to be withheld is likely to cause substantial harm to the competitive position of NAC, as the owner of the information, and reduce or eliminate the availability of profit-making opportunities. The proprietary information is part of NAC’s comprehensive spent fuel storage and transport technology base, and its commercial value extends beyond the original development cost to include the development of the expertise to determine and apply the appropriate evaluation process. The value of this proprietary information and the competitive advantage that it provides to NAC would be lost if the information were disclosed to the public. Making such information available to other parties, including competitors, without their having to make similar investments of time, labor and money would provide competitors with an unfair advantage and deprive NAC of the opportunity to seek an adequate return on its large investment.

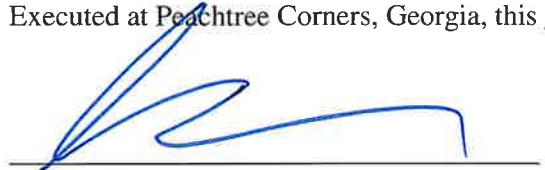
**NAC INTERNATIONAL INC.
AFFIDAVIT PURSUANT TO 10 CFR 2.390**

STATE OF GEORGIA, COUNTY OF GWINNETT

Mr. George Carver, being duly sworn, deposes and says:

That he has read the foregoing affidavit and the matters stated herein are true and correct to the best of his knowledge, information and belief.

Executed at Peachtree Corners, Georgia, this 17th day of July, 2025.



George Carver,
Vice President, Engineering and Support Services
NAC International

Subscribed and sworn before me this 17th day of July, 2025.


Notary Public