

October 26, 2023

U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852-2738

Attention: Document Control Desk

Subject: Submission Data Files to Support the Request to Amend the U.S. Nuclear Regulatory Commission Certificate of Compliance No. 1031 for the NAC International MAGNASTOR® Cask System, Amendment No.15, Supplement 01

Docket No. 72-1031

- References:
1. U.S. Nuclear Regulatory Commission (NRC) Certificate of Compliance (CoC) No. 1031 for the NAC International MAGNASTOR® Cask System, Amendment No. 10, January 18, 2023
  2. MAGNASTOR® Cask System Final Safety Analysis Report (FSAR), Revision 13, NAC International, January 2023
  3. ED20230099, Submission of an Amendment Request for the NAC International MAGNASTOR® Cask System Amendment No. 15, August 29, 2023
  4. ED20230123, Submission Data Files to Support the Request to Amend the U.S. Nuclear Regulatory Commission Certificate of Compliance No. 1031 for the NAC International MAGNASTOR® Cask System, Amendment No.15, August 29, 2023
  5. ED20230152, Supplement to NAC International's Submission of an Amendment Request for the NAC International MAGNASTOR® Cask System Amendment No. 15, October 26, 2023

NAC International Inc. (NAC) herewith is providing proprietary calculation data files to support the review of MAGNASTOR® Amendment No. 15 Certificate of Compliance (CoC) No. 1031 (Reference 3 and 5). The list of data files being provided on the data disk can be found in Enclosure 1. The data files are proprietary and marked "NAC Proprietary Information". An Affidavit pursuant to 10 CFR 2.390 is provided via Attachment 1 to this letter.

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Should there be any questions regarding this request, please contact me via email at [hbaldner@nacintl.com](mailto:hbaldner@nacintl.com) or via phone at 678-328-1252.

Sincerely,

**Heath M. Baldner** Digitally signed by Heath M. Baldner  
Date: 2023.10.26 14:53:04 -04'00'

Heath Baldner  
Director, Licensing  
Engineering

Attachment  
Attachment 1 – NAC International Affidavit Pursuant 10 CFR 2.390

Enclosures  
Enclosure 1 – MAGNASTOR® (Submittal 23E) Proprietary Data Disk 1 of 1

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

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Doug Jacobs (Affiant), Vice President, Storage Projects, of NAC International Inc., 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 in this submittal.

Enclosure 1 – MAGNASTOR® Proprietary Calculation -Data Disk 1 of 1

NAC is the owner of the information contained in the aforementioned pages/document, so they are 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.

NAC INTERNATIONAL  
AFFIDAVIT PURSUANT TO 10 CFR 2.390 (continued)

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

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  
AFFIDAVIT PURSUANT TO 10 CFR 2.390 (continued)

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STATE OF GEORGIA, COUNTY OF GWINNETT

Mr. Doug Jacobs, being duly sworn, deposes and says:

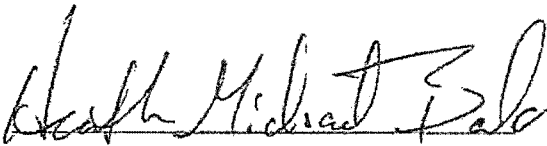
That he has read the foregoing affidavit and the matters stated herein are true and correct to the best of his knowledge, information and belief.

Executed at Peachtree Corners, Georgia, this 26<sup>th</sup> day of October, 2023.

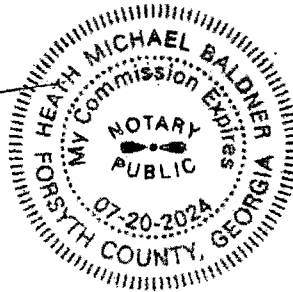


Doug Jacobs  
Vice President, Storage Projects  
NAC International Inc.

Subscribed and sworn before me this 26<sup>th</sup> day of October, 2023.



Notary Public



Enclosure 1

MAGNASTOR®

(Submittal 23E)

Proprietary Data Disk

## **Enclosure 1 Data Disk Contents**

### **Structural**

- 71160-2054 R0, MAGNASTOR Structural Evaluation of the CE16-NGF and CE16-HTP Fuel

### **Thermal**

- 71160-3151 R2, Steady State Thermal Evaluation for the Passive MAGNASTOR Transfer Cask (PMTc) with 35.5 kW PWR Canister
- 71160-3152 R0, MAGNASTOR Thermal Evaluation CE16-NGF and CE16-HTP Fuel
- 71160-3156 R2, Transient Thermal Evaluation for the Passive MAGNASTOR Transfer Cask (PMTc) with 35.5 kW PWR Canister

### **Shielding**

- 30023-5003 R1., Evaluation of Closure Lid Recess Effect on Top Dose Rates (LMTC and CC5)

### **Criticality**

- 30032-6001 R0, MAGNASTOR Criticality Evaluation of CE16H2 Fuel Type