

January 11, 2022

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

Attn: Document Control Desk

Subject: Submission of Supplemental Information to the NRC's Request for Additional Information for the NAC International MAGNASTOR® Cask System Amendment No. 11

Docket No. 72-1031
EPID No. L-2020-LLA-0158

- References:
1. U.S. Nuclear Regulatory Commission (NRC) Certificate of Compliance (CoC) No. 1031 for the NAC International MAGNASTOR Cask System, Amendment No. 9, December 7, 2020
 2. MAGNASTOR Cask System Final Safety Analysis Report (FSAR), Revision 10, NAC International, February 2019
 3. ED20200085, Submission of a Request to Amend the U.S. Nuclear Regulatory Commission Certificate of Compliance No. 1031 for the NAC International MAGNASTOR® Cask System, July 14, 2020
 4. U.S. Nuclear Regulatory Commission (NRC), Application for Amendment No. 11 to the Model No. MAGNASTOR® Storage Cask – First Request for Additional Information, February 26, 2021
 5. ED20210128, Submission of Responses to the NRC's Request for Additional Information for the NAC International MAGNASTOR® Cask System Amendment No. 11, August 23, 2021

NAC International (NAC) hereby submits supplemental information to the NRC's Request for Additional Information (RAI) (Reference 4). Enclosure 1 of this supplement contains NAC proprietary calculation 71160-3085 Revision 3 along with the associated data files. Enclosure 2 of this supplement contains the MAGNASTOR Thermal Test Report, 71160-R-04 Rev 0. The requested Emissivity Report Form is Attachment B of the Thermal Test Report document. Enclosure 3 contains the requested Peterson Procedure PSP-100189-02, Rev. 2. As previously discussed, the maximum average helium temperature reported in Section 4.11.2.2.1 of the revised FSAR in submittal 21B is correct. The previous submittal's value was a typographical error. The 21B submittal corrected this. The corrected value is also below the bounding value in the currently updated FSAR Revision 12. NAC requests that NAC proprietary information contained in Enclosures 1, 2, and 3 to be withheld from public disclosure. In accordance with 10 CFR 2.390 an affidavit is provided in Attachment 1 specifically requesting the NRC withhold this proprietary information from public disclosure.



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If you have any comments or questions, please contact me on my direct line at 678-328-1236.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wren Fowler'.

Wren Fowler
Director, Licensing
Engineering

Attachment:

Attachment 1 – NAC International Affidavit Pursuant to 10 CFR 2.390

Enclosures:

Enclosure 1 – Supplemental MAGNASTOR Calculation, 71160-3085 Rev 3

Enclosure 2 – MAGNASTOR Thermal Test Report, 71160-R-04 Rev 0

Enclosure 3 – Peterson Procedure PSP-100189-02, Revision 2, February 5, 2018

**NAC INTERNATIONAL
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 3930 East Jones Bridge Road, 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. 1031) for the NAC International MAGNASTOR Cask System.
 - Enclosure 1, NAC International Proprietary Calculation and Data Disk 1 of 1
 - 71160-3085, Rev 3, MAGNASTOR Concrete Cask and PWR Canister Thermal Evaluation for High Heat Loads
 - Enclosure 2 – MAGNASTOR Thermal Test Report, 71160-R-04 Rev 0
 - Enclosure 3 - Peterson Procedure PSP-100189-02, Revision 2, February 5, 2018

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.
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

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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.



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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 11th day of January, 2022.

A handwritten signature in dark ink, appearing to be 'George Carver', written over a horizontal line.

George Carver
Vice President, Engineering and Support Services
NAC International

Subscribed and sworn before me this 11th day of January, 2022.

A handwritten signature in dark ink, appearing to be 'Heath Michael Baldner', written over a horizontal line.

Notary Public

