

72-1031



Atlanta Corporate Headquarters  
3930 East Jones Bridge Road, Suite 200  
Norcross, GA 30092  
Phone 770-447-1144  
Fax 770-447-1797  
www.nacintl.com

February 22, 2008

Mr. Robert Nelson  
Chief, Licensing Branch  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852-2738

Dear Mr. Nelson:

Re: Resubmittal of Proprietary MAGNASTOR Thermal Calculation 71160-3005, Revision 0  
Ref: October 25, 2004 Letter from NAC International (NAC) to the U.S. Nuclear Regulatory  
Commission (NRC)

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As recently discussed with Michael Waters, NAC is resending one hard copy of proprietary calculation 71160-3005, Revision 0, titled "NewGen VCC/PWR Canister Thermal Evaluation" to assist the NRC with review of the MAGNASTOR System Application. This calculation was originally transmitted to the NRC with the October 25, 2004 referenced correspondence. A copy of the referenced letter and the affidavit is enclosed for your convenience. Also enclosed are three proprietary CDs that contain the input and output files for this calculation.

If you have any further questions regarding this proprietary information, please contact me at 678-328-1271.

Sincerely,

A handwritten signature in black ink, appearing to read 'Thomas A. Danner'.

Thomas A. Danner  
Vice President, Engineering

Enclosures: Calculation 71160-3005, Revision 0 (1 hard copy and 1 electronic copy [3 CDs])  
October 25, 2004 Letter from NAC to the NRC

N145501

October 25, 2004

Mr. L. Raynard Wharton, Project Manager  
Licensing Section  
Spent Fuel Project Office  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852-2738

Attn: Document Control Desk

Subject: Submittal of NAC International Proprietary Information Thermal Calculation Packages in Support of the MAGNASTOR System Application for Approval

Docket No. 72-1031

- References:
1. MAGNASTOR System – Application for Approval, NAC International, August 31, 2004
  2. Discussions between the NRC and NAC, October 20 and 25, 2004.

In accordance with the discussions of Reference 2, NAC International (NAC) herewith submits one copy of the NAC thermal calculation packages as requested by the Nuclear Regulatory Commission (NRC) to support the technical review of the Reference 1, MAGNASTOR System Application for Approval.

This submittal includes four NAC Proprietary Information Calculation Packages as follows:

1. 71160-3001, Rev. 0, "Effective Property Calculation of Loaded PWR Basket of NewGen System."
2. 71160-3003, Rev. 0, "Comparison of a 2-D Axisymmetric Model with a 3-D Model of the NewGen Canister."
3. 71160-3005, Rev. 0, "NewGen VCC/PWR Canister Thermal Evaluation."
4. 71160-3012, Rev. 0, "FLUENT Methodology Benchmark."

The required Proprietary Information Affidavit executed by Thomas A. Danner, NAC Vice President, Engineering, is attached.

U.S. Nuclear Regulatory Commission  
October 25, 2004  
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As previously identified, the MAGNASTOR System is currently being considered by several U.S. utilities for near-term implementation at their operating reactor sites. Therefore, NAC requests that the NRC continue the review of the MAGNASTOR System Application for Approval, as currently scheduled, to support these anticipated utility needs.

If you have any comments or questions, please contact me directly at (678) 328-1321.

Sincerely,



Thomas C. Thompson  
Director, Licensing  
Engineering

Attachment

Enclosures

## ATTACHMENT

### NAC INTERNATIONAL AFFIDAVIT PURSUANT TO 10 CFR 2.390

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Thomas A. Danner (Affiant), Vice President, Engineering, of NAC International, hereinafter referred to as NAC, at 3930 East Jones Bridge Road, Norcross, 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 four NAC calculation packages in support of the license application for the NAC MAGNASTOR System, which is being transmitted to the U.S. Nuclear Regulatory Commission (NRC) with NAC Letter No. ED20040094:
  - 71160-3001, Rev. 0, "Effective Property Calculation of Loaded PWR Basket of NewGen System."
  - 71160-3003, Rev. 0, "Comparison of a 2-D Axisymmetric Model with a 3-D Model of the NewGen Canister."
  - 71160-3005, Rev. 0, "NewGen VCC/PWR Canister Thermal Evaluation."
  - 71160-3012, Rev. 0, "FLUENT Methodology Benchmark."

NAC is the owner of this information. This information is considered proprietary to NAC.

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.

**NAC INTERNATIONAL**  
**AFFIDAVIT PURSUANT TO 10 CFR 2.390**  
**(continued)**

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- 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.e.

- 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 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 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.

**NAC INTERNATIONAL  
AFFIDAVIT PURSUANT TO 10 CFR 2.390  
(continued)**

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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.

**STATE OF GEORGIA, COUNTY OF GWINNETT**

Mr. Thomas A. Danner, being duly sworn, deposes and says:

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

Executed at Norcross, Georgia, this 25th day of October 2004.



Thomas A. Danner  
Vice President, Engineering  
NAC International

Subscribed and sworn before me this 25<sup>th</sup> day of October, 2004.

