

March 5, 2015

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

Attention: Document Control Desk

Subject: Submission of Information in Support of Request for Approval for LWT
Non-Conforming Hardware

Docket 71-9225

- References:
1. USNRC CoC No. 9225, Revision 61, Model No. NAC-LWT Package, Dated December 24, 2014
 2. NRC Letter, Extension of Authorization for a One-Time Shipment of the Dounreay Fuel Contents in the Model No. NAC-LWT Package (TAC No. L24756), November 6, 2013
 3. ED20140127, Request for Timely Renewal of U.S. Nuclear Regulatory Commission (NRC) Certificate of Compliance (CoC) No. 9225 and for Approval to Use Hardware Used to Transport NRU/NRX Fuel that has Nondestructive Examination Related Non-Conformances, November 25, 2014
 4. ED20150007, Submission of Information in Support of Request for Approval for LWT Non-Conforming Hardware, January 23, 2015
 5. ED20150025, Submission of Information in Support of Request for Approval for LWT Non-Conforming Hardware, February 4, 2015
 6. ED20150032, Submission of Information in Support of Request for Approval for LWT Non-Conforming Hardware, February 13, 2015

Via Reference 3 NAC requested approval to use transport hardware that has a known non-conformance with one NRU/NRX license drawing due to a technician that performed nondestructive examination (i.e. weld Visual Testing, VT) on hardware that will be used for NRU/NRX fuel transport who had been improperly certified by an NAC fabricator. Supplemental information related to this request was submitted to the NRC via References 4 thru 6.

Subsequent to these submittals, a teleconference was held between the NRC and NAC on March 4, 2015 to further discuss the details of the condition and the information that had been provided to date. As an action resulting from the teleconference, NAC agreed to submit a letter that provides a summary of the events surrounding the non-conformance, specifics about what hardware and welds were affected, results of re-examination efforts, a conclusion statement on acceptability of the affected hardware and welds, and the proposed Certificate of Compliance (CoC) language.

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The following is the summary of the events surrounding the non-conformance, specifics about what hardware and welds were affected, results of re-examination efforts, a conclusion statement on acceptability of the affected hardware & welds, and the proposed CoC language for the affected NRU/NRX baskets.

Requirement

License drawing 315-40-173, Rev. 2, Note 9, requires VT examination per ASME Section V, Articles 1 and 9 for the NRU/NRX basket weldment. Article 1 requires nondestructive (NDE) examination qualifications to be in accordance with SNT-TC-1A or ANSI/ASNT CP-189.

Non-conformances with Requirement

Due to a misrepresentation of prior training and experience, the examiner who performed the VT examination at Columbiana Hi Tech (CHT) did not meet all certification requirements for performing VT examinations per Section V. Thus, the examinations he performed did not meet the requirement on the license drawing. This resulted in five NRU/NRX baskets being fabricated out of compliance with Note 9 per the license drawing.

Affected Hardware

See Attachment 2 for the list of affected hardware serial numbers and weld joints. The position of the weld joints are graphically shown in Attachment 3. The following table is a summary of Attachment 2.

Weld Joint / Basket Serial No.	315-391-173-01	315-391-173-03	315-391-173-04	315-391-173-05	315-391-173-06
Joint 1	--	X	X	X	X
Joint 2	--	X	X	X	X
Joint 3	--	X	X	X	X
Joint 4	--	X	X	X	X
Joint 5A	--	X	X	X	X
Joint 5B	--	X	X	X	X
Joint 8	X	--	--	--	--

Table Notes:

- 1 – "--" denotes unaffected weld joint for a given basket serial number
- 2 – "X" denotes affected weld joint examined by the examiner in question for a given basket serial number

Chronology of Events

A report from CHT on the improper certification is in Attachment 4, the individual's improper certification record is in Attachment 5, CHT's Corrective Action Report (CAR) 13-031 surrounding the issue is in Attachment 9, and NAC's Finding Report (FR) 13-022 related to CHT's CAR is in Attachment 10. The following is a summary of the chronology of events detailed in these documents.

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ED20150036 pages 3 thru 5 and the documents in Attachments 3 thru 10 contain information considered by NAC to be proprietary and are enclosed in a separate sealed envelope labeled "NAC PROPRIETARY INFORMATION". In accordance with 10 CFR 2.390, an affidavit executed by Mr. George Carver, VP Engineering and Licensing, NAC International, is also included. If you have any questions regarding this letter, please feel free to contact me on my direct number at 678-328-1236.

Sincerely,



Wren Fowler
Director, Licensing
Engineering

Attachments

- Attachment 1 – NAC International Affidavit Pursuant 10 CFR 2.390
- Attachment 2 – List of Affected Hardware and License Drawing
- Attachment 3 – NRU/NRX Basket Weldment Configuration Documentation
- Attachment 4 – Columbiana Hi Tech Report CHT-14-001
- Attachment 5 – NDT Personnel Certification Record (Improper Certification)
- Attachment 6 – NRU/NRX Basket Weldments VT Re-examination Results
(S/N 315-391-173-03)
- Attachment 7 – NRU/NRX Basket Weldments VT Re-examination Results
(S/N's 315-391-173-04 thru -06)
- Attachment 8 – CHT Load Test Procedure and Post Load Test VT and PT Results
(S/N's 315-391-173-01 and -03 thru -06)
- Attachment 9 – CHT Corrective Action Report (CAR) 13-031
- Attachment 10 – NAC Finding Report (FR) 13-022

Attachment 1

NAC International Affidavit Pursuant 10 CFR 2.390

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

George Carver (Affiant), VP Engineering and Licensing, 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 NAC Proprietary Information that is being provided to support the technical review of NAC's Request for a Certificate of Compliance (CoC) (No. 9225) for the NAC LWT Transport Package.
 - ED20150036, pages 3 thru 5
 - ED20150036, Attachments 3 thru 10

NAC is the owner of the information contained in the above document. 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.

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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.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 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.

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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.


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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 Norcross, Georgia, this 5th day of March, 2015.

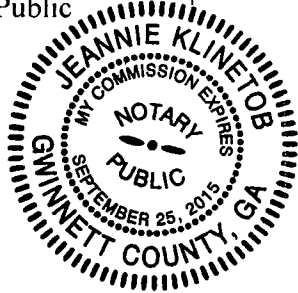


George Carver
VP Engineering and Licensing
NAC International

Subscribed and sworn before me this 5th day of March, 2015.



Notary Public



Attachment 2

List of Affected Hardware and License Drawing

List of Affected Licensed Hardware and License Drawing

List of Affected Licensed Hardware

1. NRU/NRX Basket Weldments
 - License Drawing No. – 315-40-173
 - Serial Nos. – 315-391-173-01, -03 thru -06
 - Affected Welds – Joint 8 for 315-391-173-01 and Joints 1, 2, 3, 4, 5A, & 5B for 315-391-173-03 thru -06

List of Affected License Drawings

1. 315-40-173, Revision 2, Basket Weldment, NRU/NRX
 - Note 9, “VISUALLY INSPECT (VT) ALL WELDS PER ASME SECTION V, ARTICLES 1 & 9. ACCEPTANCE CRITERIA PER SECTION III, NG-5360”