

December 12, 2017

Ms. Ada R. Hensley  
Quality Assurance Manager  
of Radioactive Transportation  
Neutron Products, Inc.  
22301 Mt. Ephraim Road  
P.O. Box 68  
Dickerson, MD 20842

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR REVIEW OF THE MODEL  
NO. NPI-20WC-6 MkII PACKAGE

Dear Ms. Hensley:

By letter dated August 24, 2017 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17244A496), as supplemented September 22, 2017 (ADAMS Accession No. ML17269A014), Neutron Products, Incorporated submitted an application to revise Certificate of Compliance No. 9215, for the Model No. NPI-20WC-6 MkII transport package. The application proposes to revise a licensing drawing. To assist with our review, the U.S. Nuclear Regulatory Commission staff needs the information identified in the enclosure to this letter. Discussion of this request for additional information and a response date occurred on December 6, 2017.

We request that you provide this information by January 26, 2018. Inform us at your earliest convenience, but no later than January 19, 2018, if you are not able to provide the information by that date. If you are unable to provide a response by January 26, 2018, please propose a new submittal date with the reasons for the delay.

Please reference Docket No. 71-9215 and EPID NO. L-2017-LLA-0120 in future correspondence related to this amendment request. The staff is available to discuss these questions as well as your proposed responses. If you have any questions regarding this matter, feel free to contact me at (301) 415-6877.

Sincerely,

**/RA/**

Chris Allen, Project Manager  
Spent Fuel Licensing Branch  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 71-9215  
EPID NO. L-2017-LLA-0120

Enclosure:  
Request for Additional Information

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR REVIEW OF THE MODEL NO. NPI-20WC-6 MkII PACKAGE

DISTRIBUTION: SFST r/f R Powell, RI SWalker, RII MKunowski, RIII RKellar, RIV DMarcano

G:\SFST\Allen\Part 71\Neutron Products\RAI\Letter.doc

<b>OFC:</b>	SFM		SFM		SFM		SFM	
<b>NAME:</b>	WAllen		SFiguroa via e-mail		RTorres via e-mail		DDunn via e-mail	
<b>DATE:</b>	11/30/17		12/1/17		12/1/17		12/1/17	
<b>OFC:</b>	SFM							
<b>NAME:</b>	MRahimi							
<b>DATE:</b>	12/12/17							

OFFICIAL RECORD COPY

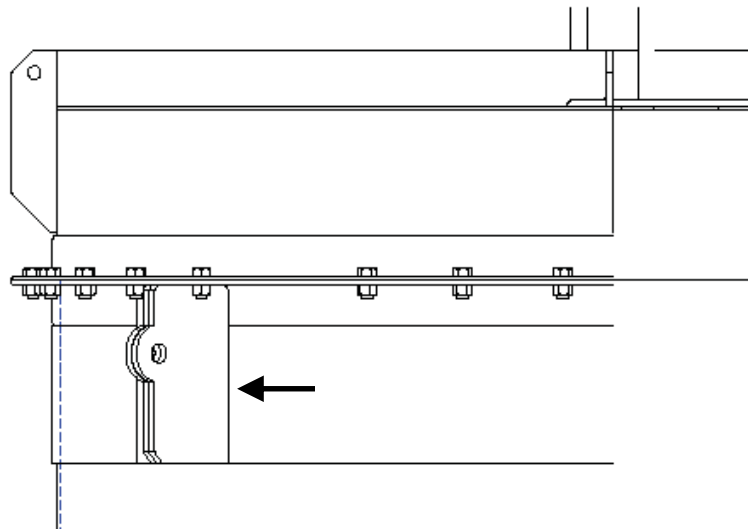
Request for Additional Information  
Docket No. 71-9215  
Model No. NPI-20WC-6 MkII

By letter dated August 24, 2017 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17244A496), as supplemented September 22, 2017 (ADAMS Accession No. ML17269A014), Neutron Products, Incorporated submitted an application to revise Certificate of Compliance (CoC) No. 9215, for the Model No. NPI-20WC-6 MkII transport package. The application proposes to revise a licensing drawing. This RAI letter identifies information needed by the staff in connection with its review of the application. NUREG-1609, "Standard Review Plan for Transportation Packages for Radioactive Material," was used by the staff in its review of the application.

Each individual RAI describes information needed by the NRC staff to complete its review of the application to determine whether the applicant has demonstrated compliance with the regulatory requirements.

### General Information Review

1. Identify the item, shown in the Figure below, at which the arrow is pointing.



The figure above was taken from view A-A in drawing 240116, Rev. H. Based upon its location relative to other package components shown in other views of the drawing, the item in the figure at which the arrow is pointing appears to be the tie down bracket. However, the addition of the tie down bracket to this view of the package was not identified in the changes made to the drawing and the item does not appear in previous revisions of drawing 240116. The drawing should be modified to identify this item.

This information is needed to verify compliance with 10 CFR 71.33(a)(5)(iv).

2. Provide specifications for bolts and their associated torque values.

Although the drawing specifies the material grade associated with hex screws which secure the steel shell lid to the steel shell body, it does not provide similar information for bolts which secure the wooden jacket lid to the wooden jacket body. In addition, although NUREG/CR-5502 identifies the information should be provided, the amount of torque required to ensure both the hex screws and the wooden jacket lid bolts remain secured is not provided.

This information is needed to verify compliance with 10 CFR 71.33(a)(5).

3. Justify removal of welding requirements.

The applicant removed weld requirements for the tie down bracket, Section B, Detail A-A, Detail C-C, Detail E, and chain bracket, and stated that they were “moved to design/repair drawings”. The application does not define whether the “design/repair drawings” are the fabrication drawings. Design basis drawings account for weld requirements of subcomponents important to safety. Neither Drawing No. 210116, Rev. H, nor previous submitted versions of the safety analysis report clearly identify if the steel shell is important to safety. Therefore, removal of the weld requirements is unjustified. Further, the description of the changes for Rev. H, shown in Section B-1 of the drawing (i.e. “Model in Solidworks and Re-create Drawing”) does not adequately identify the changes made to the drawing considering these weld requirements were removed.

This information is needed to verify compliance with 10 CFR 71.33(a)(5)(iv).