

August 1, 2012

Mr. Bill Ransohoff  
Neutron Products, Inc.  
22301 Mt. Ephraim Road  
P.O. Box 68  
Dickerson, Maryland 20842

SUBJECT: CERTIFICATE OF COMPLIANCE NO. 9215 FOR THE MODEL NO. NPI-20WC-6  
MKII PACKAGE

Dear Mr. Ransohoff:

Enclosed is Certificate of Compliance No. 9215, Revision No. 12, for the Model No. NPI-20WC-6 MKII package. This revision supersedes in its entirety, Revision No. 11, dated July 30, 2012. Changes made to the enclosed certificate are indicated by vertical lines in the margin. The staff's safety evaluation report is also enclosed.

The approval constitutes authority to use the package for shipment of radioactive material and for the package to be shipped in accordance with the provisions of 49 CFR 173.471.

If you have any questions regarding this certificate, please contact Bernard White of my staff at (301) 492-3303.

Sincerely,

**/RA/**

Michael D. Waters, Chief  
Licensing Branch  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 71-9215

Enclosures: 1. Certificate of Compliance  
No. 9215, Rev. No. 12  
2. Safety Evaluation Report

cc w/encls 1 & 2: R. Boyle, Department of Transportation  
J. Shuler, Department of Energy  
Registered Users

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(Closes TAC No. L24623)

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**ADAMS Package No.: ML12216A248 ADAMS Letter No.: ML12216A250**

<b>OFC:</b>	SFST	E	SFST	E	SFST		SFST		SFST	
<b>NAME:</b>	BWhite		MDeBose		HLindsay		MSampson		MWaters	
<b>DATE:</b>	8/1/12		8/1/12		8/1/12		8/1/12		8/1/12	

SAFETY EVALUATION REPORT  
Docket No. 71-9215  
Model No. NPI-20WC-6 MKII  
Certificate of Compliance No. 9215  
Revision No. 12

In its application, dated February 9, 2012, as supplemented on July 5, 2012, Neutron Products, Inc., requested that the contents of the package be increased from 600 Ci to 20,600 Ci of  $^{137}\text{Cs}$  and the maximum decay heat be increased from 3.1 to 97 Watts, for all three drum configurations. Staff inadvertently omitted increasing the decay for the Cesium sources when it issued Certificate of Compliance No. 9215, Revision No. 11.

The staff previously reviewed the request to increase the activity limit for special form  $^{137}\text{Cs}$  in the previously approved package from 600 Ci to 20,600 Ci. In its review, the staff agreed with the applicant's conclusion that the package loaded with 20,600 Ci of  $^{137}\text{Cs}$ , corresponding to a decay heat of 97 Watts, is bounded by the decay for the package loaded with 15,000 Ci of  $^{60}\text{Co}$ , which corresponds to 231 Watts.

Based on staff review, the staff finds reasonable assurance that the package design for the NPI-20WC-6 MKII package with the proposed contents meets the thermal performance requirements set forth in 10 CFR Part 71.

In addition, staff corrected a type by deleting an inadvertent letter "d" from the last line of Condition No. 9, to return to the wording of the condition from Revision No. 8 of the certificate that was issued on July 10, 2010.

Based on the statements and representations contained in the application, the staff concludes that these changes do not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 9215, Revision No. 12,  
on August 1, 2012