



Research Reactor Center  
University of Missouri-Columbia

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Columbia, MO 65211

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Mr. Douglas Weaver  
Deputy Director, Licensing and Inspection Directorate  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

30 June 2010

Dear Mr. Weaver,

This letter is a follow-up to our request for the renewal of authorization to ship limited Type B quantities of radioactive material in DOT Specification 20WC-1 and 6M packages that was sent to your attention last week.

Our initial request to DOT did not include all the information required under 49 CFR 107.109. We have since provided DOT with the required information and have included the updated information under this cover.

If you have any questions or concerns, please contact Mr. Michael Flagg, who may be reached at (573) 882-5364 or via email at [flaggm@missouri.edu](mailto:flaggm@missouri.edu).

Sincerely,

Ralph A. Butler  
Director, University of Missouri Research Reactor

30 June 2011  
Date

Enclosure (Timely Renewal follow-up letter to DOT)

NM5524



Dr. Magdy El-Sibaie  
Associate Administrator for Hazardous Materials Safety  
Attention: Special Permits, PHH-31  
Pipeline and Hazardous Materials Safety Administration  
U.S. Department of Transportation  
East Building, 1200 New Jersey Avenue, SE.  
Washington, DC 20590-0001

30 June 2011

Dear Dr. El-Sibaie,

This letter is a follow-up to the timely renewal request for Special Permit **DOT-SP 14657 (Rev. 1)** which was sent on June 27, 2011. This letter reiterates our timely renewal request and addresses items not included in the first letter.

**Contact Information:**

University of Missouri Research Reactor  
1513 Research Park Dr.  
Columbia, MO 65211  
D&B #: 030000603

Michael Flagg, [flaggm@missouri.edu](mailto:flaggm@missouri.edu), (573) 882-5364

Director of the Reactor: Ralph Butler (CEO Equivalent)

All shipments of radioactive material in the packages covered under this special permit will originate from MURR, at the address above.

**Special Permit SP 14657 (Revision 1) Renewal Request**

The University of Missouri Research Reactor (MURR), was granted Special Permit SP 14657, which is scheduled to expire on August 31, 2011. We request that the special permit be renewed for a period of **three (3) years** from August 31, 2011 until August 31, 2014. Revision 1 of this permit remains accurate.

As of this writing, 824 shipments of Type B quantities of medical, industrial and research radioisotopes have been made under this special permit with no adverse incidents and no loss of contents.

Class 1 materials are not covered by this request and our shipping personnel will not participate in the transportation of Class 1 material under this permit.



### Replacement Efforts

We continue our efforts (through our vendor, Croft Associates, Ltd.) to replace our fleet of DOT Specification packages with a new fleet that is compliant with 10CFR71.

### SAFKEG-LS

The SAFKEG-LS (Croft Model 3979A, the replacement for the 6M) has been issued a Certificate of Compliance by NRC (CoC ) and a Competent Authority Certification by DOT (USA/9337/B(U), Revision 0). Manufacturing will commence this month. The manufacturing schedule for the LS packaging is provided as Attachment A.

### SAFKEG-HS

The SARP for the SAFKEG-HS is being revised to incorporate NRC feedback on the SAFKEG-LS as applicable and will be submitted by the end of Q4 2011. A review and manufacturing schedule for the HS is shown in Attachment A.

We expect the approval process for the HS package design to proceed more rapidly than that for the LS package, though this cannot be guaranteed. We have implemented the lessons learned from the previous approval process and are using the Requests for Additional Information on the LS to inform edits to the HS SARP. We will continue to work with the appropriate NRC staff to ensure an efficient and thorough review of the package.

### Contract Status

On June 9<sup>th</sup> a contract amendment was signed between the University of Missouri and Croft. This amendment addressed a number of design and cost changes and has locked in a firm commitment from Croft on the final price and deliverables.

The point of contact for inquiries is Mr. Michael Flagg, who may be reached at (573) 882-5364 or via email at [flaggm@missouri.edu](mailto:flaggm@missouri.edu).

Thank you for your time and consideration of this request.

Sincerely,

Ralph A. Butler  
Director, University of Missouri Research Reactor

30 June 2011  
Date



Item	Q4 2011					Q1 2012			Q2 2012			Q3 2012			Q4 2012			Q1 2013			Q2 2013			Q3 2013					
Manufacture of LS & LS Inserts	*	*	*	*	*	*	*	*																					
Delivery of LS & LS Inserts								*																					
Delivery of CALT 9 [2-off]				*																									
LS - Liquids Contents – additions to SARP																		*	*	*									
LS - NRC review of Liquids Contents																					*	*	*						
LS - Issue of NRC certificate with Liquids Contents added																								*					
HS - SARP Compilation	*	*	*	*	*																								
HS - NRC review of SARP						*	*	*	*	*	*	*	*	*	*	*	*												
HS - Issue of NRC certificate															*														
Manufacture of HS& HS Inserts																		*	*	*	*	*	*	*	*	*	*	*	*
Delivery of HS & HS Inserts																													*

**Appendix A: Regulatory and Manufacturing Timelines for the Croft LS and HS Packages for Delivery to MURR**