

Cassandra F. Frazier  
MATERIALS LICENSING BRANCH



NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 WARRENVILLE ROAD  
LISLE, ILLINOIS 60532-4351  
(630) 829-9830 FAX: (630) 515-1078

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**CONVERSATION RECORD**

|TIME

|DATE

Oct. 10, 2012

NAME OF PERSON(S) CONTACTED |TELEPHONE No.

|ORGANIZATION

James Schweitzer, RSO

(765) 494-2350

Purdue University

SUBJECT

License No.: 13-02812-04  
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**SUMMARY**

This is in reference to our telephone conference on October 10, 2012, regarding your letter dated December 22, 2011, requesting authorization for the use of a Cd-109 source in a lead/metal measuring system to be used for research and development only. (**NOT IN HUMANS**). Discussed the following information:

Based on our review We have reviewed your request and find that the following additional information is required to complete our review:

10/2/2012: Telephone conversation with Ms. Sepulveda, John Jankovich and Jack Foster (BC), requesting additional information on TAR response dated 8/27/2012. Mr. Jankovich indicated that the device was not reviewed because it did not classify as a device because the source was "crudely" mounted on a surface and taped. He indicated that the licensee mentioned putting a "shutter" in front of the source and this "could" make it a device. They would need to review the modifications made by Purdue to make a final decision. Mr. Jankovich also provided information on what would be required for the increased activity of the sealed source and the shutter. The licensee should use NUREG-1556, Vol. 3 and also address similar questions previously requested in earlier TAR. He also stated that it would be ok to issue the use of sealed source ONLY as research and development (must add special license condition as provided in the TAR response).

10/10/2012: Discuss the above with Jim Schweitzer, RSO. The RSO indicated that they plan to provide NRC with a shutter design that was previously used by the researcher at another facility. The amendment request will be provided in the near future. We discussed the fact that the additional information on the shutter would be provided to HQ as a TAR. We also discussed amending the license for human use after the shutter information was approved by HQ (TAR) as a device. The RSO agreed that the shutter should be approved prior to approving the use on humans with the requested device.

We also discussed increasing the activity of the Cd-109 sealed source from 135 mCi to 300 mCi. The RSO stated that the need to increase the sealed source was not the priority and may either request an increased activity of the Cd-109 at the time of the shutter request or at a later date.

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Amend the license to add Cd-109 sealed source for research and development.  
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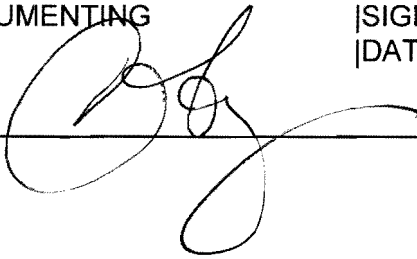
REQUESTED ACTION:

If you have any questions please contact me at (630) 829-9830 or e-mail at [cassandra.frazier@nrc.gov](mailto:cassandra.frazier@nrc.gov) . *(Note that all correspondence provided via e-mail must be dated and signed (PDF)).*

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NAME OF PERSON DOCUMENTING  
CONVERSATION

Cassandra Frazier

SIGNATURE  
DATE

A handwritten signature in black ink, appearing to be 'CF', written over a horizontal line.

October 10, 2012