

From: [Johanning, Jeffrey R.](#)
To: [Johanning, Jeffrey R.](#); [Arribas-Colon, Maria](#)
Cc: [Jankovich, John](#); [Young, Phil E.](#); [Hicks, William L.](#)
Subject: RE: RAI for SAIC application dated February 26, 2013
Date: Monday, May 20, 2013 3:32:47 PM
Attachments: [Xpose.docx](#)

Hello Maria & John,

Thank you for taking the time to discuss our SS&DR document and application. In response to our phone conference this morning, I have attached an updated document showing that the maximum activity for Xpose will not exceed 10 uCi of Ba-133 which does not exceed the applicable quantity set forth in §30.71, Schedule B.

I hope this accurately summarizes our conference call this morning and if you have any questions, please contact me.

Thank you again,

Jeff Johanning
Sr. Health Physicist V/RSO
SAIC
858-826-9725

From: Johanning, Jeffrey R.
Sent: Monday, May 20, 2013 7:45 AM
To: Arribas-Colon, Maria
Cc: Jankovich, John
Subject: RE: RAI for SAIC application dated February 26, 2013

Yes, thank you. 10:30 PT will be a good. I will talk to you then.

Thanks,

Jeff J.

From: prvs=845acca80=Maria.Arribas-Colon@nrc.gov on behalf of Arribas-Colon, Maria
Sent: Mon 5/20/2013 7:12 AM
To: Johanning, Jeffrey R.
Cc: Jankovich, John
Subject: RE: RAI for SAIC application dated February 26, 2013

Thank you for your prompt response. We would like to discuss your response to our email dated May 15, 2013. Could we give you a call at 1:30ET (10:30am your time)? If this time is not convenient for you, please let me know what time work for you better.

Thank you,

Maria del Mar Arribas-Colón, M.S.
Project Manager
U.S. Nuclear Regulatory Commission

FSME/MSSA/LB
Phone: (301) 415-6026
Email: Maria.Arribas-Colon@nrc.gov

From: Johanning, Jeffrey R. [mailto:JEFFREY.R.JOHANNING@saic.com]
Sent: Thursday, May 16, 2013 4:41 PM
To: Arribas-Colon, Maria
Cc: Kotzalas, Margie; Herrera, Tomas; Jankovich, John; Poy, Stephen; Struckmeyer, Richard
Subject: RE: RAI for SAIC application dated February 26, 2013

Hello Ms. Arribas-Colon,

Regarding your request for information on the source, it is actually a custom design rod made to SAIC specifications of construction in the attached drawings. The model number is 701443-001. It is manufactured by Spectrum Techniques and distributed to SAIC under their NRC License # 41-23845-01E which authorizes exempt distribution pursuant to §32.18. Each source has 10 mCi of Ba-133. The chemical form is BaCl salt solution. The material is evaporated into a small metal rod and the top is sealed with epoxy to prevent any leakage of the byproduct material. The performance characteristics of the source would likely be limited by the epoxy used to backfill the rod. The epoxy manufacturer states that the epoxy is not water soluble, the operating temperature for the epoxy is -50 to 150 C, and it has a tensile strength of 9400 psi.

I hope this information helps you with the safety evaluation. If there are any further request or clarifications needed, please contact me.

Thank you,

Jeff Johanning
Sr. Health Physicist V/RSO
SAIC
858-826-9725

From: prvs=840d77fec=Maria.Arribas-Colon@nrc.gov [mailto:prvs=840d77fec=Maria.Arribas-Colon@nrc.gov] **On Behalf Of** Arribas-Colon, Maria
Sent: Wednesday, May 15, 2013 1:06 PM
To: Johanning, Jeffrey R.
Cc: Kotzalas, Margie; Herrera, Tomas; Jankovich, John; Poy, Stephen; Struckmeyer, Richard
Subject: RAI for SAIC application dated February 26, 2013

Mr. Johanning,

This email is an early request for additional information regarding your application dated February 26, 2013. In order to proceed with the safety evaluation of your application, please provide information on the make, model, manufacturer, performance characteristics and construction of the source that SAIC is intending to use in the Xpose device.

In the application, the second paragraph of Page 2 of 5 states that the SAIC will acquire a source form a exempt license distributor and that a source rod is shown in Attachment 1 of the application. The drawing in Attachment 1 does not specify the make, model and manufacturer of the source.

Note that you may receive additional requests for information later in the review process. Please submit the requested information within 30 days of the date of this email. If we have not received complete information within 30 days of the date of this email, we will consider your application as having been abandoned by you. This is without prejudice to the submission of a complete application.

Thank you,

Maria del Mar Arribas-Colón, M.S.

Project Manager

U.S. Nuclear Regulatory Commission

FSME/MSSA/LB

Office: T-8-J7

Phone: (301) 415-6026

Email: Maria.Arribas-Colon@nrc.gov