

From: "John J. Miller" <jjmiller@intisoid.com>
To: "Jonathan Rivera" <JXR4@nrc.gov>
Date: 09/27/2006 10:10:43 AM
Subject: RE: CORRECTION: RE: Request for additional information on application for triple encapsulated sources.

Jonathan,

Best case scenario is that the old source will come with a copy of its certificate indicating the model and serial number, reference activity and reference date.

If we don't get this information we would have to determine the actual model by confirming measurements. If we receive a source that isn't what it is suppose to be then we would return the source back to the sender.

John

-----Original Message-----

From: Jonathan Rivera [mailto:JXR4@nrc.gov]
Sent: Wednesday, September 27, 2006 7:45 AM
To: John J. Miller
Subject: CORRECTION: RE: Request for additional information on application for triple encapsulated sources.

John,

Thank you once again. In regards to the X7 single capsule, the SSD certificate (under the Labeling section) states that the model number (CDC.700) will be engraved on the sources' outer capsules. Will there be any additional marking on the sources and/or packaging that you receive which will indicate the type of outer capsule (X2016, X2062, ect.)?

Jonathan Rivera
Materials Safety & Inspection Branch
U.S. Nuclear Regulatory Commission
Phone: (301) 415-5810
Email: jxr4@nrc.gov

>>> "John J. Miller" <jjmiller@intisoid.com> 09/26/2006 6:06 PM >>>
Jonathan,

Yes you are correct the X31 and the X31/1 will not fit so we will have to exclude these source capsules as well.

Sorry for failing to address 2.1 in my original reply, I was working in the airport. We do not intend to encapsulate the X7 as a single capsule. We would ensure that we are encapsulating the doubly encapsulated X7s by

B-10

verifying the Model number on the sealed source.

John

-----Original Message-----

From: Jonathan Rivera [mailto:JXR4@nrc.gov]

Sent: Tuesday, September 26, 2006 3:27 PM

To: John J. Miller

Subject: RE: Request for additional information on application
for triple
encapsulated sources.

Mr. Miller,

Thank you.

Can you also respond to question 2.1 below, and the following new question:

SSD Certificate No. MA-1059-S-204-S for Model No. CDC.700 indicates an overall height of 1 inch for the X31 and X31/1 outer capsules. This exceeds the height of the INIS-SF-CS-2J in Drawing No. INIS-DWG-0014. Please indicate whether or not you intend to use the X31 and X31/1 double encapsulated sources. If so, also provide a justification for using a source which dimensions exceed that of the triple encapsulation and a description of how the source would be held in place inside the third encapsulation.

Sincerely,

Jonathan Rivera
Materials Safety & Inspection Branch
U.S. Nuclear Regulatory Commission
Phone: (301) 415-5810
Email: jxr4@nrc.gov

>>> "John J. Miller" <jjmill@intisoid.com> 9/21/2006 1:34 PM >>>
Mr. Rivera,

It was a pleasure meeting you this morning. I have pasted the attachment to your email below and will address your comments accordingly.

International Isotopes, Inc.

Public Meeting

September 21, 2006

Request for Additional Information

1.0 Summary Information

NUREG-1556, Vol. 3, Rev. 1, Section 10.1, under A Summary Information @, states that the applicant must identify all radionuclides that will be used in the product and include the maximum requested activity for each, including loading tolerance. In order to complete the Summary Information of your application, dated April 17, 2006, please address the following question:

1.1 Page 2 of 5 of your 4/17/06 application gives a maximum activity of (b)(2)High Cs-137 for each of the Models INIS-SF-CS-1J and -2J. The SSD certificates for the double encapsulated sources you intend to use (MA-1059-S-200-S and MA1059-S-204-S) indicate maximum activities of (b)(2)High and Cs-137, respectively. Please clarify the maximum activity of Cs-137 you intend to use in each of the Models INIS-SF-CS-1J and -2J. Please also indicate whether or not you intend to use more than one double encapsulated source in each triple encapsulation.

High Ex-2

High Ex-2

International Isotopes Inc. Response - We agree that the International Isotopes Inc. SS&D should match the MA-1059-S-200-S and -204-S. For simplicity a maximum activity of (b)(2)High would be an appropriate activity limit for the SS&D.

High Ex-2

2.0 Construction of the Product

NUREG-1556, Vol. 3, Rev. 1, Section 10.3, under A Construction of the Product@, states that the applicant needs to describe the construction aspects of the product including components of the product, materials of construction, dimensions, assembly methods, source containment and shielding, and operation of the product and its safety features. Detailed design and construction data should be sufficient to allow the reviewer to fully understand the construction and operation of the product and its components and safety features and to evaluate the products safety and integrity. In order to complete the information on the Construction of the Product, please address the following questions.

2.1 Page 2 of 6 of SSD Certificate No. MA-1059-S-204-S, for source Model No. CDC.700, indicates that the source can be single or double encapsulated. Please clarify whether you request to also encapsulate single encapsulated sources. If not, please indicate how you would ensure that the sources received for triple encapsulation would be double, instead of single, encapsulated.

2.2 Regarding Drawing No. INIS-DWG-0014 attached to your email dated 9/1/06, please clarify:

a) What the views at the bottom of the drawing are (i.e., are these views the stainless steel end caps described on Page 3 of 5 of your 4/17/06 application?)

International Isotopes Inc. Response - You are correct, the views on the bottom of the drawings are indeed the caps to the capsules.

b) Whether the dimensions you stated are fixed, or are maximum dimensions for the triple encapsulation. Please also indicate whether or not the dimensions of the triple encapsulation would vary during fabrication, based on the actual size of the double encapsulated source to be used.

International Isotopes Inc. Response - The dimensions on the drawings are fixed.

Thank You

John J. Miller

International Isotopes Inc.

-----Original Message-----

From: Jonathan Rivera [mailto:JXR4@nrc.gov]
Sent: Thursday, September 21, 2006 9:21 AM
To: jjmiller@intisoid.com
Cc: John Jankovich; Nima Ashkeboussi
Subject: Request for additional information on application for triple encapsulated sources.

Mr. Miller,

Per our meeting this morning, attached you will find the list of questions that we discussed for your response in writing. An email response would be sufficient.

Thank you.

Mail Envelope Properties (451A864F.02D : 14 : 45101)

Subject: RE: CORRECTION: RE: Request for additional information
onapplication fortriple encapsulated sources.

Creation Date 09/27/2006 10:05:02 AM

From: "John J. Miller" <jjmiller@intisoid.com>

Created By: jjmiller@intisoid.com

Recipients

nrc.gov

TWGWPO03.HQGWDO01

JXR4 (Jonathan Rivera)

Post Office

TWGWPO03.HQGWDO01

Route

nrc.gov

Files	Size	Date & Time
MESSAGE	6648	09/27/2006 10:05:02 AM
Mime.822	8255	

Options

Expiration Date: None
Priority: Standard
ReplyRequested: No
Return Notification: None

Concealed Subject: No
Security: Standard

Junk Mail Handling Evaluation Results

Message is eligible for Junk Mail handling
This message was not classified as Junk Mail

Junk Mail settings when this message was delivered

Junk Mail handling disabled by User
Junk Mail handling disabled by Administrator
Junk List is not enabled
Junk Mail using personal address books is not enabled
Block List is not enabled

International Isotopes, Inc.
Public Meeting
September 21, 2006

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High EX-2

High EX-2

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