NRR-PMDAPEm Resource

From: Carolyn Haass <carolyn.haass@nwmedicalisotopes.com>
Sent: Wednesday, February 01, 2017 4:11 AM
To: Drucker, David
Cc: 'Steve.reese@nwmedicalisotopes.com'; Balazik, Michael; Carolyn Haass
Subject: [External_Sender] Re: Please address two questions regarding the proposed NWMI RPF and waste by February 7th

David,

Below are the answers to the questions regarding our proposed RPF.

Answers:
Question 1:
NWMI never intended to use the external waste management building for staging high dose (Class B or Class C) waste. There is a high-dose waste decay hot cell shown in Figure 19-11 and as discussed in the second bullet of 19.2.8.1.2 the high dose material is held in the shielded enclosure in the RPF (i.e. high-dose waste decay hot cell) for decay until it meets shipping and disposal requirements and then loaded into a cask and shipped to a disposal unit.

Question 2:
The planned disposal location for either Class B or Class C waste is Waste Control Specialists in Andrews, Texas. They are permitted for Class A, B, and C waste types.

If you have any questions regarding the above information, please let me know.

Thanks.

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From: "Drucker, David" <David.Drucker@nrc.gov>
Date: Tuesday, January 31, 2017 at 5:30 PM
To: 'Carolyn Haass' <carolyn.haass@nwmedicalisotopes.com>
Cc: "'Steve.reese@nwmedicalisotopes.com'" <Steve.reese@nwmedicalisotopes.com>, "Balazik, Michael" <Michael.Balazik@nrc.gov>
Subject: Please address two questions regarding the proposed NWMI RPF and waste by February 7th

Hi Carolyn,

Below please find two questions I need NWMI to provide answers to. I need the NWMI answers by Tuesday, February 7th.

Thank you in advance,

David

QUESTION 1

Given that the response to WM-R-1 clarified that the encapsulated solid waste is currently projected to be Class B, but the external waste management building would only be used to store Class A, confirm that NWMI no longer intends to use the external waste management building for staging of Class B encapsulated solid waste and describe whether this waste would be stored in the RPF, or in another location.

Statement from November 2015 environmental RAI response WM-R-1 (EIS reference NWMI 2015c), referring to the same encapsulated solid waste: "Encapsulated solid waste - The encapsulated solid waste consists of solid materials generated by the RPF processes. Solid wastes are dominated by cladding pieces generated during the irradiated target disassembly system and filters containing undissolved target particles generated by the irradiated target dissolution system. Solid wastes are collected in a disposal container. After filling with solid waste, a grout material is added to the disposal container to encapsulate the collected waste. The quantity of this waste stream is bounded by 15,000 kg/yr as a solid. Encapsulated solid waste is currently projected to be a Class B waste stream for disposal."

Statement from safety RAI response 11.2-5b (ML16344A049, EIS reference NWMI 2016e): "The Waste Staging and Shipping Building does not contain any waste processing steps. The building will be used to store incoming drums (consumables) and to store and stage filled drums (Class A waste) prior to shipment to an approved disposal facility."

Statement from PSAR, Chapter 19, page 19-54 (EIS reference NWMI 2015a): "Solid waste is typically size reduced as necessary, placed in containers, encapsulated, moved to the external waste management building for staging, and then shipped to a disposal site."

QUESTION 2

RAI response 11.2-4 (provided below) states that "solidified high-dose liquid waste from the RPF will be either Class B or Class C". Where would this waste be disposed of if it is Class C?

Statement from safety RAI response 11.2-4 (ML16344A049, EIS reference NWMI 2016e): "The solidified high-dose liquid waste from the RPF will be either Class B or Class C waste. As a result of reducing the waste volume and minimizing disposal costs, the liquid waste concentration endpoint may result in a change in the final waste classification from Class B to Class C."

2. Statement from November 2015 environmental RAI response WM-R-1 (EIS reference NWMI 2015c): "Radioactive wastes anticipated to be transported and disposed of by Waste Control Specialists in Texas will include the following: High-dose solidified liquid waste – The high-dose solidified liquid waste consists of liquid waste systems generated by the RPF processes containing a majority of radioisotopes separated from molybdenum (Mo) product and recycled uranium. High-dose liquids are accumulated, neutralized (by addition of caustic), concentrated, and combined with a solidification agent prior to transfer into a disposal container. The quantity of this waste stream is bounded by 300,000 kg/yr as a solid. Solidified high-dose waste is currently projected to be a Class B waste stream for disposal."

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From: Carolyn Haass

Created By: carolyn.haass@nwmedicalisotopes.com

Recipients:
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Tracking Status: None
"Balazik, Michael" <Michael.Balazik@nrc.gov>
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Tracking Status: None
"Drucker, David" <David.Drucker@nrc.gov>
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MESSAGE	4966	2/1/2017 4:07:49 AM

Options
Priority: Standard
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