

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

From: isaacson@lanl.gov [mailto:isaacson@lanl.gov]

Sent: Tuesday, January 31, 2006 1:05 PM

To: KIRK.W.OWENS@saic.com

Cc: tps@lanl.gov; Susan Radzinski

Subject: Fwd: Re: Fwd: FW: Non-OUO information needed from RH Retrieval document

Kirk,

Below is Tom Starke's response to the RH TRU descriptions that you wanted verified. He has included some caveats, but verifies that the descriptions are correct.

JJ

X-Sieve: CMU Sieve 2.2

Date: Sat, 28 Jan 2006 16:33:22 -0700

To: John Isaacson <isaacson@lanl.gov>

From: Tom Starke <tps@lanl.gov>

Subject: Re: Fwd: FW: Non-OUO information needed from RH Retrieval document

X-PMX-Version: 4.7.1.128075

John, I'm not sure I understand what you are asking. the information below is correct, except the Weston document is no longer draft while the PMOs still are. I have a copy of the Weston document (paper and electronic). There's also a good 2002 report by Lee Leonard (I'll forward separately).

Re the 15,000 Curies of MFP vs 300 Curies of transuranics, please be careful using these numbers. The CD-0 package only addresses two of the four RH TRU configurations at Area G. So these might give the wrong impression if you imply these are the totals.

As far as whether this info is OUO, I don't believe it is.

Tom

At 03:28 PM 1/25/2006, you wrote:

Tom here is the information we discussed yesterday at the COR class. We need to send it back to Kirk Owens at SAIC so that we have a reference that is not OUO. All that needs to be done is to cut it out of the email below and send it to Kirk so that he can reference the email. Of course, it should be accurate and I don't know if plans have changed, but if it is accurate, a simple cut and paste would be sufficient.

Thanks for your help on this,

JI

X-Sieve: CMU Sieve 2.2

From: "Owens, Kirk W." <KIRK.W.OWENS@saic.com>

To: "'isaacson@lanl.gov'" <isaacson@lanl.gov>

Subject: FW: Non-OUO information needed from RH Retrieval document

Date: Wed, 25 Jan 2006 14:31:33 -0500

Sender: KIRK.W.OWENS@saic.com

X-Proofpoint-Spam: 0

X-PMX-Version: 4.7.1.128075

John,

Please see the note at the bottom of this email regarding information that we would like to receive in a form that can be referenced. As appropriate, it could be cut from this email or the mission need statement and sent to us in a separate email, or if the mission need statement is not OUO, that would do.

Thanks,

Kirk Owens

SAIC

(301) 601-5611 (voice)

(301) 428-0145 (fax)

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

From: Owens, Kirk W.

Sent: Wednesday, December 14, 2005 7:09 PM

To: John Isaacson

Subject: FW: Non-OUO information needed from RH Retrieval document

John,

Please see the note below. There is information in the draft CD-0 that we would like to be able to reference. Could you have someone extract the info as described below and send that to us so that we can cite it as LANL-provided information.

Thanks,

Kirk Owens

SAIC

(301) 601-5611 (voice)

(301) 428-0145 (fax)

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

From: Gorden, Milton E.

Sent: Wednesday, December 14, 2005 2:12 PM

To: Owens, Kirk W.

Cc: Hoffman, Robert

Subject: Non-OUO information needed from RH Retrieval document

You forwarded to me a draft mission need statement from LANL regarding the Remote Handled TRU Waste Retrieval Project. I have identified some information within this document that would be useful to include in Appendix H.4 of the draft LANL SWEIS. I

would like to obtain a referencable document with the information below:

- The Total RH-TRU waste is estimated to consist of approximately 300 curies of Plutonium [primarily Pu-239 (about 3,800 grams), with smaller quantities of other isotopes], and 15,000 curies of other mixed fission products.
- Table 2.3-1: Content of Lined Shafts 200-232: Configuration A, which includes the number of grams/curies Plutonium, grams uranium, curies (MFP) and gross weight.
- The identification of the amount of Material at Risk (MAR) for configurations A and B that could be used to bound an accident scenario (less than 56 Curies Pu), and the fact that the facility would be designated a HC-3 or Radiological Facility.
- Retrieval methods using commercial, off-the-shelf technology (telescoping robotic and/or crane with Smart-Tool Retrieval, remote vacuum retrieval, and intact shaft retrieval), and the fact that a shielded enclosure would be lowered over the shaft and a crane or hoist would be rigged to extract the waste packages. The packages would be placed into an "in-process" waste container and taken elsewhere on the LANL site for processing and characterization (such as existing domes, DVRS, or CMR Wing 9 hot cells).
- A description of "Leave-in-place" options such as vitrification, entombment in concrete, or left in the shafts.
- Obtaining a copy of references 6 and 8 of the mission need statement. These two references, shown below, are draft, however, and it is unclear whether they could be referenced. Reference 6 may be particularly useful since it contains fission product information on the RH TRU waste.

Ref. 6: "Historical Emplacement Data Review for Remote Handled and Contact Handled Transuranic Waste at Los Alamos National Laboratories," Draft, Roy F. Weston Company, Sept. 30, 2005.

Ref. 8: Draft Project Management Objectives for Remote-Handled TRU Wastes Stored in Below-Grade Shafts, TA-54, MDA-G (September 29, 2005).

This information shows that the alternatives in appendix H.4 will need to be updated to reflect that processing of RH-TRU will take place in already-available facilities and not in a new facility.

Milton

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John Isaacson Ph.D.
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(505) 667-2276 (phone)
(505) 667-0731 (fax)