

From: [Wiehle, Kelly L](mailto:Wiehle_Kelly_L)
To: [Trefethen, Jean](mailto:Trefethen_Jean)
Subject: [External_Sender] RE: A few clarifying questions
Date: Thursday, April 13, 2017 3:53:23 PM
Attachments: [image003.png](#), [image004.png](#)

We found someone to answer the phone. Rad Liquid Waste is sent from Fluor-B&W Portsmouth LLC to Perma-Fix Diversified Scientific Services, Inc. (DSSI) in TN for incineration and disposal. However, this would not be a transport under the Lead Cascade Materials License to the offsite facility.

From: Wiehle, Kelly L
Sent: Thursday, April 13, 2017 3:36 PM
To: 'Trefethen, Jean' <Jean.Trefethen@nrc.gov>
Subject: RE: A few clarifying questions

With regard to #5, I am not able to tell you how the Fluor-B&W Portsmouth LLC folks will handle this waste. I am trying to gather more information on this one, but that company is on a holiday today and they do not work on Fridays. Additionally, my expert left early today through Tuesday.

From: Trefethen, Jean [<mailto:Jean.Trefethen@nrc.gov>]
Sent: Thursday, April 13, 2017 3:26 PM
To: Wiehle, Kelly L <wiehlekl@centrusenergy.com>
Cc: Corrado, Jonathan K <corradojk@centrusenergy.com>
Subject: RE: A few clarifying questions

Thank you so much for the clarification and making publically available!

From: Wiehle, Kelly L [<mailto:wiehlekl@centrusenergy.com>]
Sent: Thursday, April 13, 2017 3:10 PM
To: Trefethen, Jean <Jean.Trefethen@nrc.gov>
Cc: Corrado, Jonathan K <corradojk@centrusenergy.com>
Subject: [External_Sender] A few clarifying questions

See responses in red font below. I have removed text out of your question 5 as well to make this document public releasable.

From: Trefethen, Jean [<mailto:Jean.Trefethen@nrc.gov>]
Sent: Thursday, April 13, 2017 10:23 AM
To: Corrado, Jonathan K <corradojk@centrusenergy.com>; Wiehle, Kelly L <wiehlekl@centrusenergy.com>
Subject: A few clarifying questions
Importance: High

Hello Kelly and John

We are getting very close. I have a few questions I thought you might be able to answer more easily than my hunting around for them. If that is not the case I will hunt around for the answers. Is there a time today that we could talk about the questions? The specific questions are noted below.

1. How long has the LC been shut down? I have that they indicated permanent shut down on Feb 17, 2016, was the Lead Cascade shut down or non-operational for some time before that. ACO 16-0010, dated March 2, 2016 states "In accordance with 10 *Code of Federal Regulations* (CFR) 70.38 (d) (2), American Centrifuge Operating, LLC (ACO) hereby notifies the Nuclear Regulatory Commission (NRC) of Centrus Energy Corp.'s decision on February 19, 2016, to permanently cease operation at the American Centrifuge Lead Cascade Facility (Lead Cascade) and to terminate the Lead Cascade Materials License (SNM-7003) following decontamination and decommissioning activities."
2. How many Acres of PORTS reservation does the LC occupy. Per LA-2605-0002, *Environmental Report for the American Centrifuge Lead Cascade Facility*, Section 1.1, states "The uranium enrichment production and operations facilities at PORTS are leased to the Corporation by the DOE, and comprise about 260 ha (640 acres) within an approximate 1,501 ha (3,708 acre) DOE reservation."
3. "Dry Active Waste" I looked up online and this is defined as: might include paper, cloth, plastic, rubber, tape, glass, scrap metal as well as other combustible or non-combustible, compactable or non-compactable materials. Is that a reasonable definition for the LC facility. As defined within our operating procedure ACD2-EC-009, *Low Level Radioactive Waste*, it is "Radioactively contaminated non-liquid solid waste. Dry Active Waste includes Personal Protective Equipment, wood, plastic, floor sweepings, absorbent pads, cardboard, rags, gloves, wood pallets, filters, paper, rubber, tyvek, cloth, metal, glass, and miscellaneous debris. Metal and glass may be present at a volume up to one percent."
4. A description of the B-25 waste container/ box. I looked this up online also and got a basic description of a 3X4X6 metal box with a lid that can be screwed down or not. So I wonder if these are industry standard, the sense I got from online is that they are. The B-25 containers are nominally 4'x4'x6' steel containers with a bolted lid.
5. Liquid Radwaste which is going to the Portsmouth GDP for processing will stay there or be shipped for final burial at the NNSS. Unclassified, low-level contaminated liquid waste is anticipated to be handled as an on-site transfer for processing to the DOE's Prime Contractor for the DandD activities at PORTS, Fluor-B&W Portsmouth LLC in Piketon, Ohio through a reverse work authorization agreement. Therefore, there will be no off-site shipment for public impacts.
6. 0.1% of LC DAC statement in RAI response 2, page 7 – is this based on a regulatory limit, i.e. Part 20 or a limit that is maintained by site specific guidance. I am looking to better explain it is 0.1 % of "something". The LC DAC is set at 1×10^{-10} $\mu\text{Ci/ml}$ (found in LA-2605-0001, *License Application for the American Centrifuge Lead Cascade Facility*, Chapter 4.0, Table 4.7-4 entitled DAC and Airborne Radioactivity Posting Levels) in consideration of soluble uranium chemical toxicity; for comparison the DAC for Class D ^{234}U listed in 10 CFR Part 20 is 5×10^{-10} $\mu\text{Ci/ml}$.
7. Highest contact reading in section 220 microR from page 2, third paragraph from the bottom of ACO 17-0018. Is that for contact on the centrifuge casing – here I am looking to more fully explain which components are being referred to. The withheld discussions provided in ACO 17-0012 (Enclosure 1, page 3 of 9) and ACO 17-0015, DP-2605-0001, *Decommissioning Plan for the American Centrifuge Lead Cascade Facility*, Section VII (page C-5) describes what you need for this section. It lost some meaning when it was made public releasable. You can state: Chemical Trap surveys indicated a maximum contact reading of 220 $\mu\text{R/hour}$.
Thank you in advance for your prompt reply!

Jean