

From: [Slama, Chuck](#)
To: [Raddatz, Michael](#); "achowdhury@swri.org"
Cc: [Knowles, Timothy](#)
Subject: RE: Request for Additional Information
Date: Monday, October 21, 2013 4:17:34 PM

Gentlemen,

Please see UUSA responses to the questions posed in the below email, dated October 1, 2013.

1. The 19 mRem/yr exposure at the site boundary fence is due to direct radiation from the uranium byproduct cylinder storage pad expansion. The Deep Dose Equivalent (DDE) exposure to the critical organ is the same as exposure to the whole body. Section 4.12.2.2, Public and Occupational Exposure Impacts, Environmental Report Rev. 21a effectively supports the Committed Dose Equivalent (CDE) to the critical organ (Lung) as less than 2 mRem/yr. As a result the total dose to the critical organ would be marginally greater than 19 mRem/yr whole body exposure at the site boundary fence; approximately 21 mRem/yr. This is below the 40 CFR 190.10(a) dose standard of 25 mRem/yr.

2. CALC-S-00143, Rev 0, was supplied as attachment 2, to LES-13-00099-NRC, Second Response to NRC RAI of LAR 12-10 (TAC L34193). This calculations is available in the eRoom with folder path: [My eRooms](#) > [NRC Document Exchange](#) > [Mike Raddatz](#) > [RAI Ref Docs "LES-13-00068-NRC"](#) > [RAI \(C\) 1](#).

Regards,

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Licensing Project Manager

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From: Raddatz, Michael [<mailto:Michael.Raddatz@nrc.gov>]
Sent: Tuesday, October 01, 2013 7:42 AM
To: Timothy Knowles
Cc: Asadul Chowdhury (achowdhury@swri.org)
Subject: FW: Request for Additional Information

A follow up question on the expansion SER, please respond to Asad as well.

Mike R

In response to NRC Request for Additional Information (RAI) (B) 1, LES has referenced Environmental Report, Rev. 21. CNWRA staff has reviewed LES responses to RAI (B) 1, including Environmental report, Rev. 21a (LES E: room provided Rev. 21a

instead of Rev. 21) and has the following additional RAI:

“Provide the maximum organ dose for the effective dose equivalent result of 19 mrem/yr. due to direct radiation from the uranium byproduct cylinder storage pad expansion or provide organ doses at the site boundary to demonstrate that exposure will not exceed the 40 CFR 190.10(a) dose standard of 25 millirems to any organ other than the thyroid.”

In response to NRC RAI (C) 1, LES stated that the calculations report will be available by July 24, 2013. If available, provide us this report