

From: clayton.shedrow [REDACTED]
Sent: Monday, May 05, 2008 9:47 AM
To: Dimarzio, John A.
Cc: greg.burbage [REDACTED]; drew.grainger [REDACTED]; linda.nass [REDACTED]; betsy.westove [REDACTED]; dianne.barne [REDACTED]; perjetta.hightowe [REDACTED]
Subject: Fw: Revised Air Emissions Information for the Immobilization Module for PuD SEIS.

John

Revised air emissions data for PuVit. If you have any questions, please contact Greg Burbage or Linda Nass.

[REDACTED]

Thanks.

C. Barry Shedrow

[REDACTED]

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----- Forwarded by Clayton Shedrow [REDACTED] on 05/05/2008 09:42 AM -----

Greg Burbage [REDACTED]

05/05/2008 09:26 AM

To: Clayton Shedrow [REDACTED]
Cc: Clayton Holloway [REDACTED]; Linda Nass [REDACTED]; Betsy Westove [REDACTED]; Dianne Barne [REDACTED]
Subject: Revised Air Emissions Information for the Immobilization Module for PuD SEIS.

Barry,

Linda Nass has very conscientiously reviewed some of the information that she provided earlier to SAIC on the "Immobilization" (PuVit) data call for air emissions. Based on her review, she has revised some calculations and provided them to me. I am forwarding these to you below. Please forward them to SAIC immediately, if possible, and should there be questions, call me or Linda directly. Thanks.

After reflection, I realized that some of the information I provided for the **PuVit** portion was incorrect. I provided only the emissions for 1 melter (not 10) and this was after the hepa and sandfilter. Also, the correct emissions for the diesel generators is provided below.

I've provided the corrected information below for items 19 and 19a, respectively.

19)

There will be 3 diesel generators (1 for operations and 2 for fan house). These will be used for emergency/standby power only. Line power will be used to operate the facility under normal conditions.

* Denotes Criteria Pollutants. Based upon emergency operation only, the projected emissions are below the Criteria Pollutant levels. These emissions have not been included in the next block.

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19a) Other than PM, there are no 'Criteria' pollutants except those from the operation of the emergency generators. These emissions are provided in the previous block.

This process will include 2 DMO furnaces and 10 melters.

HAPS:

Ni/NIO = 6.337E-05 kg/yr

These are the projected rad emissions from the process after the airflow has gone through Hepa filtration and the sand filter.

Radionuclides =

Nuclides	Curies (without Hepa/SF)	Curies (w/Hepa/SF)
Np237	8.531E-04	8.531E-07
Pu238	4.749E-03	4.749E-05
Pu239	5.081E-03	5.081E-06
Pu240	5.683E-03	5.683E-06
Pu241	1.427E-01	1.427E-04
Pu242	2.757E-05	2.757E-08
Am241	6.777E-01	6.777E-04
Total	8.795E-01	8.795E-04

*PSD pollutants: Be/BeO, Fluorides, and PM/PM-10 (all are well below trigger levels)
SCDHEC Sid 8 (Toxic Pollutants): HCl, Be/BeO, Ni/NIO*

Linda S. Nass

[REDACTED]