

From: Anthony Huffert
To: Julie Olivier
Date: 11/20/01 8:36AM
Subject: Re: FCSS Clearances

-NMSS/DWMEP
-NMSS/FCSS

Julie -

Thanks for including me on the cc list.

My hunch is that there may be a couple of follow-up questions asked about the attachment during today's meeting with RES/NMSS/NEI. For example, were the FCSS releases evaluated via 10 CFR 20.2002? Does FCSS have similar information about other materials (besides soil) such as metal or concrete during operations and/or decommissioning?

The meeting is in room T10-A3 from 1:00 p.m. to 3:30 p.m. today.

Tony

>>> Julie Olivier 11/19/01 04:03PM >>>

Bob,

I've attached a table with estimates of releases from fuel cycle facilities which have volumetric contamination (except for soils). There have been releases of concrete, asphalt and metal sheets with surface contamination, but I was unable to get the information for today. Sorry about the inconsistency of the units, it's how they are reported and we'd need to get material densities from our licensees to do conversions. I hope this helps. Let me know if you have any questions.

Julie

B/46

Estimate of Fuel Cycle Volumetric Releases of Material (other than soil) 1996-2001

Type of Material	Volume released	Release Criteria	Average Concentration	Recipient of Material
CaF ₂	10,000 lbs	30 pCi/g LEU*	just under 30pCi/g U	Cement Company
CaF ₂	Not available	212 pCi/g natural uranium	just under 212 pCi/g natural U	Briquette manufacturers
HF	400,000 gallons	3 ppm LEU	0.5 ppm U	Commercial use
Nitrate Bearing Liquid	50,000,000 gallons	5 ppm LEU	0.61 ppm U	Paper Company
Ammonium hydroxide	3,000,000 gallons	0.1 pCi/g LEU	just under 0.1 pCi/ LEU	Fertilizer broker

*LEU = Low Enriched Uranium (maximum of 5% U-235)