From: Booth, Steven R[redacted]
Sent: Friday, March 16, 2012 6:09 PM
To: Maheras, Steven J
Cc: Reddick, Randy; Kline, Steve; Kornreich, Drew E; Dimarzio, John A.
Subject: LANL normal operations releases

Here is LANL's info for air emissions under normal operations based on Steve M's conversion factors. The numbers look reasonable when compared to PDCF numbers.

Normal Operations Radionuclide Releases, PF-4

Alternative	Release (PE-Ci/yr)
No Action (300kg/yr)	2.40E-04
Action (2,500 kg/yr)	2.00E-03

PE-Ci = Pu-239 (S) dose equivalent curies.

From: Maheras, Steven J[redacted]
Sent: Tuesday, March 13, 2012 2:36 PM
To: Booth, Steven R
Cc: Reddick, Randy; Kline, Steve
Subject: new tables

Steve—

Attached are the tables for the normal operations releases and our accident releases. The PDC at K-Area normal operations releases are slightly higher than PDCF at F-Area because they include a fraction of the material processed that is AFS-2, which is a heftier mix Pu-238-wise. Also attached are the PE-Ci conversion factors. As I mentioned on the phone, we assumed that the Pu was S, the Am-241 was M, the uranium was S, and the T was HTO (x1.5 to account for skin absorption). The exception to the Pu S rule was electrodecon, where we assumed that the Pu was M. The endpoint of our calculations was always Pu-239 (S) dose equivalent curies for normal operations. Also, we used the FGR 13 tab to be consistent with Gil's dosimetric database.

Regards,

Steve Maheras
Pacific Northwest National Laboratory
[redacted]