

From: Gary Purdy - *Nmss/DWm*
To: Rafael Rodriguez ?
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Subject: ATK TAR input

B/54

Specific Activity

Radionuclide	Specific Activity (Ci/g)	% Activity (Given by Army)	% Activity (measured)
U-238	3.37e-07	87.7	68.1
U-235	2.17e-06	1.6	1.4
U-234	6.26e-03	10.7	30.5
pCi/g to equal 0.05 wt. %		1.92e+02	2.47e+02

Dose assessment

	mrem/yr
Resident Farmer	0
Worker (driver)	0.02 (per trip)
Worker (trench)	7

The resident farmer dose was based on the site specific information provided by ATK and 0.05 weight % of U. The assessment was performed for both radionuclide distributions (Army, site measured).

The driver dose was based on the driver being 3 feet from the end of a 20' X 7.5' X 3.6' trailer for 29 hours with no shielding and 0.05 weight % of U. The assessment was performed for both radionuclide distributions (Army, site measured).

The trench worker dose was based on a worker standing in a contaminated trench (walls and floor) for 2000 hrs with no shielding and 0.05 weight % of U.. The worker is 3 feet from the walls of the trench. The assessment was performed for both radionuclide distributions (Army, site measured).