

From: Elizabeth Ullrich
To: Kevin Reilly
Date: Mon, Oct 3, 2005 3:11 PM
Subject: additional information requested for Scotia (Defense Logistics Agency)

Defense Logistics Agency, Defense National Stockpile Center
License No.: STC-133
Docket No: 040-00341
Control No: 136268

Kevin,

A few additional items of information are needed for the August 16, 2005, response letter about the final status surveys at the DNSC Scotia Depot in Scotia, New York.

1. In the responses attached to your letter dated August 16, 2005, Item 5.b stated that a diagram was attached; however, no diagram was received. In addition, Item 7.e. stated that a calculation was attached; however, no such calculation was received. Please provide these items.
2. The comparison of Table 8.5 to 8.6, as stated in the response to Item 7, is not valid. The results of the analyses of the soil samples shown in Table 8.5. shows the concentrations of three radionuclides of uranium, therefore the total uranium is the sum of these three values, not the average of the three values; the same applies to the thorium results. In addition, U-234 and U-238 are from the U-238 decay series, as is Th-230. The Th-232 and Th-228 are from the thorium decay series, and U-235 is from the U-235 decay series. The results of the U and Th in Table 8.6 do not state how the mass of uranium or thorium was determined, so it is difficult to state which values in Table 8.5 should be compared to Table 8.6. However, because both the soil samples and the ore samples contain natural uranium and natural thorium, we can directly compare the total Th/U ratio of the individual soil samples from Table 8.6 (range 0.69 to 2.98) to the total Th/U ratio of the individual ore samples in Table 8.5 (range 0.007191 to 0.833333). The ranges of the results show that the uranium and thorium content of the soil is different than the uranium and thorium content of the ore samples. No further information is requested.

Please note that you may not reply to this letter by return e-mail. Your reply must be in writing by letter to 475 Allendale Road, King of Prussia, PA 19406; or by facsimile (610-337-5269). If we do not receive a reply from you within 30 calendar days from the date of this e-mail, we will assume that you do not wish to pursue your application.

Thanks, and call me at 610-337-5040 or email if you have any questions.
Betsy

Betsy Ullrich
Senior Health Physicist
US NRC Region 1 Office

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Subject: Fwd: additional information requested for Scotia (Defense Logistics Agency)

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