Special Projects Branch

SUBJECT: Niagara Falls Storage Site (NFSS) 2007 NESHAP Report

Radiation Branch
Environmental Protection Agency, Region II
290 Broadway
New York, New York 10007

Dear:

Enclosed please find the 2007 NESHAP report for the Niagara Falls Storage Site (NFSS). This report, as it has in the past, will be included in the Corps FUSRAP Niagara Falls Storage Site 2007 Environmental Surveillance Technical Memorandum which is currently under development. In summary the Corps finds that the NFSS is in compliance with 40 CFR 61, Subpart H and Subpart Q.

Compliance with 40 CFR 61, Subpart H is determined by use of USEPA approved code CAP88-PC Version 3.0. The CAP88-PC hypothetical annual maximum dose to an off-site:

- Resident: 8.4 E-04 mrem
- Farm: 6.4 E-04 mrem

The hypothetical annual doses to the nearest off-site worker and school corrected for 2,000 hr of exposure per year are:

- Off-site worker: 8.2 E-04 mrem
- School: 7.5 E-05 mrem

The hypothetical annual doses to the maximally exposed off-site individual (MEOSI) is therefore 8.4 E-04 mrem to a resident.

The CAP88-PC hypothetical annual effective dose for the population within 80 km of the facility is:

- Population: 2.6 E-02 person-rem

Compliance with 40 CFR 61, Subpart Q is demonstrated by the measurement of radon-222 (radon flux). Radon-222 flux at the NFSS site was measured using 180 10-inch diameter activated carbon canisters placed at 15-meter intervals across the pile and sealed to the surface for a 24-hour exposure period (August 8-9, 2006). Individual and average measurements...
(0.00717 pCi/m²/sec) were well below the NESHAPs standard for radon flux of 20 pCi/m²/sec, with results ranging from -0.1155 to 0.2115 pCi/m²/s. These results are consistent with radon flux measured in previous years. The results do not exceed the established standard specified in Subpart Q of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) and conducted as part of performance monitoring of the clay pile cover.

My technical point of contact for this action is [redacted] who is available at [redacted]. If you have any questions please do not hesitate to contact me at [redacted].

Sincerely,