



DEPARTMENT OF THE ARMY
BUFFALO DISTRICT, CORPS OF ENGINEERS
1776 NIAGARA STREET
BUFFALO NY 14207-3199

REPLY TO
ATTENTION OF:

Special Projects Branch

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

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

Dear [REDACTED]:

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
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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,

[REDACTED]