

August 4, 2006

Mr. William Snell U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road Lisle, IL 60532-4351

SUBJECT:

ANALYTICAL RESULTS FOR SIX SOIL SAMPLES, BATCHES ONE AND TWO, FROM BIG ROCK POINT NUCLEAR STATION, CHARLEVOIX, MICHIGAN [INSPECTION REPORT NO. 050-00155/2006-001] (RFTA NO. 06-001)

Dear Mr. Snell:

The Oak Ridge Institute for Science and Education (ORISE) receivedBatch One on July 7, 2006, consisting of three soil samples, and Batch Two on July 26, 2006, consisting of three soil samples that are associated with the Big Rock Point Nuclear Station in Charlevoix, Michigan. The six soil samples were analyzed by gamma spectroscopy (GS). Sample identification and collection data are presented in Table 1. The primary isotopes of concern were cobalt-60 and cesium-137. The GS data are presented in Table 2. The pertinent procedure references are provided in the specific tables.

ORISE's Quality Control (QC) requirements were met for this analysis. The QC files are available for your review upon request.

My contact information is listed below. You may also contact Wade Ivey at 865.576.9184 with any questions or comments.

Sincerely,

Dale Condra, Manager

Laboratory

RDC:WPI:ar

Enclosure

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TABLE 1

SAMPLE IDENTIFICATIONS AND COLLECTION DATA BIG ROCK POINT NUCLEAR STATION CHARLEVOIX, MICHIGAN

ORISE Sample ID	NRC Region III Sample ID	Collection Date	Collection Time
1715S0001	BRP-06-1-01	06/02/2006	4:24 PM
1715S0002	BRP-06-1-02	06/02/2006	4:34 PM
1715S0003	BRP-06-1-03	06/02/2006	4:41 PM
1715S0004	BRP-06-2 - 1	07/05/2006	2:50 PM
1715S0005	BRP-06-2-2	07/05/2006	2:58 PM
1715S0006	BRP-06-2-3	07/05/2006	3:05 PM

TABLE 2

CONCENTRATIONS OF SELECTED GAMMA EMITTING RADIONUCLIDES IN SOIL SAMPLES BY GAMMA SPECTROSCOPY CP1, REVISION 15 BIG ROCK POINT NUCLEAR STATION CHARLEVOIX, MICHIGAN

ORISE	<u> </u>		Radionuclide Concentrations ^a (pCi/g)		
Sample ID	Sample ID	Co-60	Cs-137		
1715S0001	BRP-06-1-01	$0.00^{\rm b} \pm 0.02^{\rm c}$	0.00 ± 0.01		
1715S0002	BRP-06-1-02	0.01 ± 0.02	0.00 ± 0.01		
1715S0003	BRP-06-1-03	0.00 ± 0.02	0.00 ± 0.01		
1715S0004	BRP-06-2-1	0.48 ± 0.05	0.57 ± 0.04		
1715S0005	BRP-06-2-2	0.02 ± 0.02	0.04 ± 0.02		
1715S0006	BRP-06-2-3	0.06 ± 0.05	0.04 ± 0.02		

^{*}The range of MDCs for the selected radionuclides is 0.02 pCi/g to 0.04 pCi/g.

^bZero values are due to rounding.

^cUncertainties represent the 95% confidence level, based on total propagated uncertainties.