

050-00206

DPR-13

ORISE

OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

May 10, 2007

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DNMS

Mr. Robert Evans
U.S. Nuclear Regulatory Commission
Region IV: DNMS: NMLB
Suite 400
611 Ryan Plaza Drive
Arlington, TX 76011

**SUBJECT: ANALYTICAL RESULTS FOR SOIL SAMPLES ASSOCIATED WITH THE
SAN ONOFRE NUCLEAR GENERATING STATION IN SAN ONOFRE,
CALIFORNIA
(INSPECTION REPORT #050-00206/07-011) [RFTA NO. 06-001]**

Dear Mr. Evans:

The Oak Ridge Institute for Science and Education (ORISE) received two soil samples associated with the San Onofre Nuclear Generating Station in San Onofre, California on April 20, 2007. At your request, the soil samples were analyzed by gamma spectroscopy (GS) for licensed radionuclides. The soil sample identifications are listed in Table 1. The GS data is presented in Table 2. The pertinent procedure references are provided in the tables.

ORISE's Quality Control (QC) requirements were met for these analyses. 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,

Wade P. Ivey
for

Dale Condra, Manager
Laboratory

RDC/WPI:ar

Enclosures

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TABLE 1

**SAMPLE IDENTIFICATIONS
AND COLLECTION DATA
SAN ONOFRE NUCLEAR GENERATING STATION
SAN ONOFRE, CALIFORNIA**

ORISE Sample ID	NRC Region IV Sample ID	Collection Date	Collection Time
1741S0001	NRC-1	4/17/2007	10:45
1741S0002	NRC-2	4/17/2007	11:00

TABLE 2

CONCENTRATIONS OF SELECTED GAMMA EMITTING RADIONUCLIDES
 IN SOIL SAMPLES
 BY GAMMA SPECTROSCOPY CP1, REVISION 15
 SAN ONOFRE NUCLEAR GENERATING STATION
 SAN ONOFRE, CALIFORNIA

ORISE Sample ID	NRC Region IV Sample ID	% Moisture	Radionuclide Concentrations (pCi/g dry weight) ^a		
			Co-60	Cs-137	U-235
1741S0001	NRC-1	3.4	0.03 ± 0.04 ^b , 0.05	0.01 ± 0.02 , 0.03	0.06 ± 0.09 , 0.12
1741S0002	NRC-2	1.8	0.01 ± 0.02 , 0.03	0.01 ± 0.02 , 0.03	0.12 ± 0.10 , 0.11

^aThe MDCs are after the comma.

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