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Energy/
Environment
Systems Division

March 26, 1990

Ms. Elizabeth Ullrich
Region I
Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Subject: RESULTS OF ROYERSFORD SAMPLE ANALYSES

Dear Ms. Ullrich:

Attached are the results of analyses on a Royersford sludge sample, collected January 11, 1990. We have provided several dozen containers to the Treatment Plant and expect to begin receiving additional samples within the next month or so.

You may contact me at FTS 626-3305 if you have any questions regarding these data.

Sincerely,

James D. Berger, Director
Environmental Survey and
Site Assessment Program

JDB:jls

Attachment

cc: C. Haughney, NRC/6H3
G. LaRoche, NRC/6H3
D. Tiktinsky, NRC/6A4
V. Tharpe, NRC/6H3

RADIONUCLIDE CONCENTRATIONS IN SAMPLE
FROM SECONDARY DIGESTOR
ROYERSFORD, PENNSYLVANIA

Radionuclide	Radionuclide Concentration (pCi/g or Solids)	
	Sludge (collected 1/11/90) (6.1% solids)	
Cr-51	<27.5	
Mn-54	16.3 ± 7 ^a	
Co-58	7.3 ± 4.2	
Fe-59	9.3 ± 8.6	
Co-60	341 ± 9	
Zn-65	318 ± 15	
Sr-90	10.5 ± 0.4	
Nb-95	<5.1	
Zr-95	<8.8	
Ag-110m	<4.6	
Sb-125	<10.7	
Cs-134	5.3 ± 2.5	
Cs-137	44.3 ± 3.3	
U-234	3.2 ± 0.2	
U-235	0.1 ± 0.1	
U-238	1.7 ± 0.1	
Pu-238	<0.1	
Pu-239/240	0.2 ± 0.1	

^aUncertainties represent the 95% confidence levels, based only on counting statistics; additional laboratory uncertainties of ± 6 to 10% have not been propagated into these data.