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REGION 1

July 10, 2003 2003 JUL 11 AM 11: 20
GEW03-003

Mr. Craig Gordon
Nuclear Regulatory Commission
U.S. NRC Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Mr. Gordon;

As a follow-up to our meeting at the Heritage Minerals site on July 8, 2003, I am enclosing the two items you requested regarding the report documenting the removal of fugitive licensable source materials. These items are a table of the GPS data collected by Enercon, and a revised Table 2 for the report. Please replace the existing Table 2 in the report with the revised Table 2.

At that meeting we discussed the possibility of coordinating a visit by ORISE so that the scope included the final status survey data for the building foundation slabs. We are requesting that the visit be coordinated to only include the monazite pile/soils area discussed in the report, and that a separate follow-up for the building foundation slabs be coordinated directly with your office.

If you have any questions, please call me at 724-733-8711. Thank you for your assistance.

Sincerely,

Gerald E. Williams, P.E.
Senior Project Manager

GEW:dmm

Table 2
Total Thorium and Total Uranium Analysis to Confirm Removal of Fugitive Licensable Source Materials

Sample Number	Total thorium (1)(2)	Total uranium (2)(3)	Sampling adjacent to Excavations to Verify Removal of Fugitive Source Material within 200 foot Grid Area South/Southeast of Dry Mill	Source Material Level
North excavation northeast side	6.10	11.42	Surface sample northeast of the monazite pile footprint northeast of excavations located at RSI samples 1,2, & 4	Below source material levels of 116 pCi/g total thorium
North excavation east side	12.36	17.90	Surface sample northeast of the monazite pile footprint east of excavations located at RSI samples 1,2, & 4	Below source material levels of 116 pCi/g total thorium
North excavation south side	19.65	21.04	Surface sample northeast of the monazite pile footprint south of excavations located at RSI samples 1,2, & 4	Below source material levels of 116 pCi/g total thorium
North excavation southwest side	5.32	10.62	Surface sample northeast of the monazite pile footprint southwest of excavations located at RSI samples 1,2, & 4	Below source material levels of 116 pCi/g total thorium
North excavation northwest side	6.77	9.96	Surface sample northeast of the monazite pile footprint northwest of excavations located at RSI samples 1,2, & 4	Below source material levels of 116 pCi/g total thorium
Trench north	2.87	8.13	Surface sample north of the northern end of the trench	Below source material levels of 116 pCi/g total thorium
Trench south	21.41	15.35	Surface sample south of the southern end of the trench	Below source material levels of 116 pCi/g total thorium
Trench east	3.86	9.14	Surface sample east of trench approximately 2 feet from south end of trench	Below source material levels of 116 pCi/g total thorium
Trench east	5.09	4.63	Surface sample east of trench approximately 25 feet from south end of trench	Below source material levels of 116 pCi/g total thorium
17-09N	0.47	3.05	Surface samples around excavation at center/southwest monazite pile boundary near ORISE samples 11, 12 & 13	Below source material levels of 116 pCi/g total thorium
17-09E	3.81	9.65	Surface samples around excavation at center/southwest monazite pile boundary near ORISE samples 11, 12 & 13	Below source material levels of 116 pCi/g total thorium

17-09S	6.78	6.99	Surface samples around excavation at center/southwest monazite pile boundary near ORISE samples 11, 12 & 13	Below source material levels of 116 pCi/g total thorium
17-09W	9.60	10.03	Surface samples around excavation at center/southwest monazite pile boundary near ORISE samples 11, 12 & 13	Below source material levels of 116 pCi/g total thorium
17-10N	1.64	4.38	Surface samples around excavation at center/south monazite pile footprint near ORISE samples 9, 14 & 16	Below source material levels of 116 pCi/g total thorium
17-10E	10.55	5.36	Surface samples around excavation at center/south monazite pile footprint near ORISE samples 9, 14 & 16	Below source material levels of 116 pCi/g total thorium
17-10S	0.39	3.10	Surface samples around excavation at center/south monazite pile footprint near ORISE samples 9, 14 & 16	Below source material levels of 116 pCi/g total thorium
17-10W	3.24	9.54	Surface samples around excavation at center/south monazite pile footprint at ORISE samples 9,14,16	Below source material levels of 116 pCi/g total thorium
17-11N	4.09	7.28	Surface samples around excavation at northwest corner of monazite pile footprint near monitoring well 22-D	Below source material levels of 116 pCi/g total thorium
17-11E	3.60	5.57	Surface samples around excavation at northwest corner of monazite pile footprint near monitoring well 22-D	Below source material levels of 116 pCi/g total thorium
17-11S	5.37	9.61	Surface samples around excavation at northwest corner of monazite pile footprint near monitoring well 22-D	Below source material levels of 116 pCi/g total thorium
17-11W	4.07	6.76	Surface samples around excavation at northwest corner of monazite pile footprint near monitoring well 22-D	Below source material levels of 116 pCi/g total thorium
17-13N	2.020	4.98	Surface sample~34 feet north of pump house near ORISE sample 39	Below source material levels of 116 pCi/g total thorium

Notes

1. Total thorium quantified by assuming secular equilibrium of Thorium-228 with Ra-228 daughter, Thorium-232 with Pb-212 daughter then calculating total thorium.
2. Reported values above the established site background of 0.48 pCi/g total thorium and 0.62 pCi/g total uranium.
3. Total uranium quantified by assuming secular equilibrium of Uranium-238 with U-238 daughter then calculating total uranium.

Easting/Northing GPS Data

	Easting	Northing
SE grid	537728.825	419728.825
17-10	537644.020	419644.020
17-09	537615.604	419615.604
trench south	537579.989	419579.989
north of pumphouse	537537.568	419537.568
pumphouse excavation	537532.477	419532.477
SW grid	537528.587	419528.587
NW grid	537528.789	419528.789
end of north excavation	537553.658	419553.658
north exvacation	537555.194	419555.194
west-north excavation	537548.921	419548.921
MW-22D	537672.934	419672.934
17-11	537656.103	419656.103
excavation north of trench	537559.352	419559.352
trench north	537573.128	419573.128
NE grid	537728.863	419728.863
NE grid	537729.063	419729.063