

Department of Energy

Albuquerque Operations Office P.O. Box 5400 Albuquerque, New Mexico 87185-5400

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Mr. Joseph J. Holonich, Chief Uranium Recovery Branch Office of Nuclear Materials Safety Vicinity Property No. RF-493 North of Highway 6 & 24 East of Ash Avenue Rifle, Colorado

And Safeguards Mail Stop T7J9 U.S. Nuclear Regulatory Commission Washington, DC 20555

Dear Mr. Holonich:

In accordance with the Uranium Mill Tailings Radiation Control Act of 1978 (Public Law 95-604), the Environmental Protection Agency (EPA) Standards (40 CFR part 192), and the Memorandum of Understanding between the U.S. Department of Energy (DOE) and the U.S. Nuclear Regulatory Commission (NRC) (GM004-85AL26037), two copies of the Vicinity Property Completion Report for the above property are submitted for NRC certification concurrence. Please note that the application of supplemental standards does not appear in the REA. Supplemental standards were applied in the field. Also enclosed to aid in the review are the NRC Review form and a copy of the Vicinity Property Certification Summary and Decision.

Should you have any questions, please contact contact John Evett of my staff at (505) 845-4865.

Sincerely,

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Steven C. Hamp Uranium Mill Tailings Remedial Action Team Leader Environmental Restoration Division

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Enclosures

- 1. RF-493 Completion Report (2 Copies)
- NRC Review Form for Supplemental Certification of VP RF-493
- Certification Summary and Decision Form

cc w/o enclosures: J. Hams, CDPHE J. Evett, ERD E. Artiglia, TAC R. Johnson, TAC

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Vicinity Property No.: RF-493

	CO	MPLIANC	CE*	
CERTIFICATION REQUIREMENT	Yes	No	N/A	COMMENTS (Reference Page in Completion Report)
 SOIL EXCAVATION 1. Were soil samples collected/analyzed? (List quantity of surface and subsurface samples.) 	/			- APPROXIMATELY 1600 VERIFICATION SAMPLES AT & VARIETY OF DEPTHS WERE COLLECTED & ANALYZED FOR 12a-226 - NEED TO CORRECT DISCREPANCY
 Did grid intervals equal 10 meters or less? (List grid size and quantity sampled.) 	/			- NEED TO (OULLES IDENTIFIED) BETWEEN # OF SAMPLES IDENTIFIED) IN SECT. 3-1.2 & TAISLE 3.1. - ONE HOT FORID REMAINING (6962)
3. Were adequate spatial averaging techniques clearly demonstrated?	/			- PAC HP-015 USED.
 Was an outdoor gamma survey conducted? (List results.) 	1			IN CONTUNCTION u/ SUPPLEMEN STANDARDS; TABLE B.TZ
 Were alternate measurements performed? (List types of measurements, range, and average of results.) 			1	
6. Were all contaminated areas sampled after excavation?	1			

VICINITY PROPERTY CERTIFICATION REVIEW FOR COMPLIANCE WITH RADIOLOGICAL STANDARDS

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VICINITY PROPERTY CER	TIFICATION REVIEW FOR COMPLI	ANCE WITH RADIOLOGICAL	STANDARDS (continued)
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COMPLIANCE*						
CERTIFICATION REQUIREMENT	Yes	No	N/A	COMMENTS (Reference Page in Completion Report)		
 I. SOIL EXCAVATION (continued) 7. Were soil concentrations of Ra-226, averaged over 100 square meters, less than or equal to: 5 pCi/g plus background (surface)? 15 pCi/g plus background (subsurface)? 	/			CHECK G62, WHICH EXCEEDS THE 5.0 ph/g LIMIT AFTER SUBTRACTING BACKGROUND.		
 If excavation was done around structures or utility conduits to structures, was contamination removed to meet EPA Standards? 			/	NO STRUCTURES OPEN LAND		
II. INDOOR GAMMA SURVEY						
 Were assessment measurements taken in the lowest habitable level of every habitable building? 			~			
 Were small rooms scanned and large rooms (2000ft²) gridded at intervals of 10 feet or smaller? 			/			
3. Were verification measurements taken at locations of prior maximum readings?			1			

Vicinity Property No.: RF-493

COMPLIANCE*					
CERTIFICATION REQUIREMENT	Yes	No	N/A	COMMENTS (Reference Page in Completion Report	
 INDOOR GAMMA SURVEY (continued) Were instrument readings converted to microR/hr? (List range of readings.) 	indicate		1		
 After remedial action, was the average each room or 2000 ft² area less than 2 above background? 	e value for 0 micro/hr		1		
6. If any reading exceeded 20 microR/hr background, was it satisfactorily invest ensure no tailings involvement?	above igated to		1		
 INDOOR RDC MEASUREMENTS If RDC measurements were performed remedial action, and results were above standards, were they repeated after re- action was complete? 	/e		1		
 If RDC measurements were not perfor before remedial action, were they take habitable structure after remedial action 	en in every		1		

VICINITY PROPERTY CERTIFICATION REVIEW FOR COMPLIANCE WITH RADIOLOGICAL STANDARDS (continued)

* If no or N/A, then an explanation is required.

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COMPLIANCE*					
-EI	RTIFICATION REQUIREMENT	Yes	No	N/A	COMMENTS (Reference Page in Completion Report
11.	INDOOR RDC MEASUREMENTS (co 3. If tailings were excavated within 1 structure or around utility conduits structure, were RDC measurement after remedial action?	0 ft of the sinto the			
	4. If grab samples were used for ve acceptable procedures used?	rification, were		1	
	 Were grab sample results less the (List range and average of result) 	an 0.01 WL? s.)		/	
	6. If annual average measurements verification, were acceptable profollowed?	s were used for cedures		1	
	 Were annual average RDC results (0.02 WL)? (List average of results.) 	Its less than EPA range and		1	
	 If annual average RDC results w 0.02 WL and 0.03 WL, was appring justification given? 	vere between opriate		1	

VICINITY PROPERTY CERTIFICATION REVIEW FOR COMPLIANCE WITH RADIOLOGICAL STANDARDS (continued)

COMPLIANCE*						
CERTIFICATION REQUIREMENT	Yes	No	N/A	COMMENTS (Reference Page in Completion Report)		
 IV. OTHER VERIFICATION MEASUREMENTS 1. If adequate verification data are not presented, were additional measurements taken? 			/			
 Were acceptable procedures used? 			1			
 Were surface alpha contamination levels less than: 						
 1000 dpm/100 cm² for removable alpha activity? 			/			
 5000 dpm/100 cm² for total alpha activity? 						
 Were additional measurements performed? (List type and results?) 			1			

VICINITY PROPERTY CERTIFICATION REVIEW FOR COMPLIANCE WITH RADIOLOGICAL STANDARDS (continued)

* If no or N/A, then an explanation is required.

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	CO	MPLIANC		Completion Report)
ERTIFICATION REQUIREMENT	Yes	No	N/A	COMMENTS (Reference Page in Completion Report)
 /. SUPPLEMENTAL STANDARDS 1. If numerical standards were not met, is this due to the presence of natural radioactivity? What data show this? 		1		PREVIOUS ANALYSES INDICATED WINNBLOWN TATLINGS IS THE SOURCE (REA).
2. If all residual radioactive material at the property was not cleaned up, were supplemental standards (40 CFR 192 Subpart C) applied?	/			
3. Was the application of supplemental standards in accordance with the Plan for implementing EPA Standards?	/			 a. Risk injury to workers/public b. Environmental harm c. High cost relative to long-term benefits d. High cost of cleaning up building relative to benefits e. No known remedial action f. Radionuclides other than Ra-226 exist
 Did appropriate state and federal agencies concur in this application of Supplemental Standards? (Note: final NRC concurrence of the Completion Report is obtained following the DOE certification decision. 			/	 The application of Supplemental Standards appears in REA. The application of Supplemental Standards does not appear in the REA. Supplemental Standards were applied the field. State concurrence dated
* If no or N/A, then an explanation is required.				STILL WAITING FOR STATE & NRC CONCURRENCE. IF STATE HAS CONCURRED, THEN INCLUSE LETTER IN COMPLETION REPORT. Revised (596)

VICINITY PROPERTY CERTIFICATION REVIEW FOR COMPLIANCE WITH RADIOLOGICAL STANDARDS (continued)

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COMPLIANCE*						
CERTIFICATION REQUIREMENT	Yes	No	N/A	COMMENTS (Reference Page in Completion Report)		
 VI. SITE AUDIT REPORTS 1. If a site audit was performed at this property, were the results satisfactory? 			/			
If the contractor's efforts were evaluated at other properties, were the results satisfactory?			/			
 VII. ADDITIONAL CONSIDERATIONS 1. Are there any additional comments or considerations. 	/			A) # UERIFICATION SAMPLES; SECT. 3.1.2 VS. TABLE 3.1 B) HOT BRID GAGZ C) LOWER LIMIT OF Ra-226 CONC. (B-174		
 VIII. CERTIFICATION 1. Is this property recommended for certification as meeting the EPA standards for residual radioactive material? 		1		RESOLVE ISSUES IN JII. 1 4 OBTAIN STATE & NRC CONCURRONCE.		

VICINITY PROPERTY CERTIFICATION REVIEW FOR COMPLIANCE WITH RADIOLOGICAL STANDARDS (continued)

VP No.: RF-493 NRC Review Form for Supplemental Certification of Vicinity Properties

The Department of Energy (DOE) has determined that the remedial action at the following vicinity property (VP) has been completed and thereby complies with supplemental standards invoked by DOE under 40 CFR, Subpart C, specifically Subsections 192.21 and 192.22.

- [] NRC concurrence for the Radiological Engineering ^ ssessment (REA) given on:____
- [X] Supplemental standards were not in the REA, special circumstances required that supplemental standards be involved during remedial action.

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10/28/96

Steven C. Hamp, DOE Certification Officer

Date

Based on the information and certification provided by the DOE, the NRC:

- concurs that the remedial action at the subject VP has been completed under its authority provided by the Uranium Mill Tailings Radiation Control Act (UMTRCA), Section 104(f)(1) and as described in the Memorandum of Understanding (MOU), Appendix A, Section 3.4.
- [] concurs, as above, except for the following conditions:
 - 1.

3.

[] See attached sheets for any additional provisions.

[]

needs additional information to make a concurrence decision. This information consists of:

[] See attached sheets for any additional informational needs.

NRC Concurring Official and Title

Date