



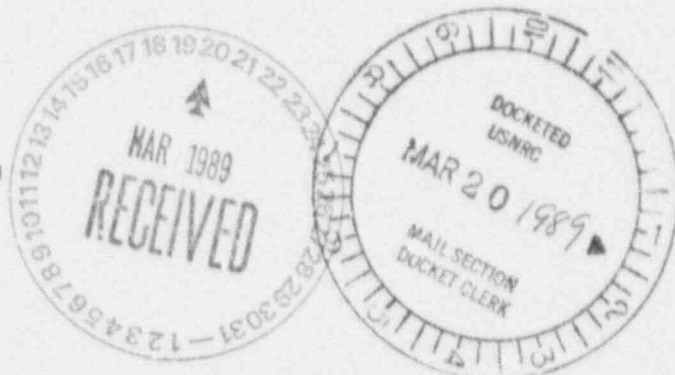
Department of Energy
Albuquerque Operations Office
P. O. Box 5400
Albuquerque, New Mexico 87115

WM-39

MAR 13 1989

Vicinity Property No. SL-628S
Address: 4500 South Street
Salt Lake City, Utah

Mr. Edward Hawkins
U.S. Nuclear Regulatory Commission
Uranium Recovery Field Office
P.O. Box 25325
Denver, Colorado 80225



Dear Mr. Hawkins:

In accordance with Uranium Mill Tailings Radiation Control Act of 1978 (Public Law 95-604), Environmental Protection Agency (EPA) Standards (40 CFR Part 192), and the Memorandum of Understanding between U.S. Department of Energy (DOE) and U.S. Nuclear Regulatory Commission (NRC) (GMO04-85AL26037), two copies of the Vicinity Property Completion Report for the above property are submitted for NRC certification concurrence. Please note the NRC has previously concurred in the application of supplemental standards as presented within the Radiological Engineering Assessment. Also enclosed for review is a copy of the Vicinity Property Certification Summary and Decision.

Should you have any questions, contact Gaeton Falance of my staff at (505) 846-1206 or FTS 846-1206.

Sincerely,

Charles A. Carrum
for

Mark L. Matthews
Acting Project Manager
Uranium Mill Tailings Project Office

cc:
Larry Anderson, DEH, UT

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NRC FILE CENTER COPY

89-0499

Based on the NRC's evaluation, this property:

- ☐ should be certified
- ☐ needs additional data to make the certification decision.

Additional Data Required: _____

NRC Designated Official _____ Date _____

=====

DOE Response to Data Request: _____

DOE Project Officer _____ Date _____

=====

Based on the NRC's evaluation of the additional data, the NRC concurs in the certification of this property.

NRC Designated Official _____ Date _____

VICINITY PROPERTY CERTIFICATION SUMMARY AND DECISION

Location No.: SL-6285

Date: 7/2/88

The data presented in the certification folder indicate:

	TAC Evaluation			DOE Evaluation		
	Yes	No	N/A	Yes	No	N/A
1. The Ra-226 concentration in the top 15 cm of soil averages <5 pCi/g above background over 100 m ² in-situ <input type="checkbox"/> lab <input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. The Ra-226 concentration in any 15 cm layer of soil below the top 15 cm surface layer averages <15 pCi/g above background over 100 m ² in-situ <input type="checkbox"/> lab <input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. The indoor gamma readings are <20 uR/hr above background in every habitable room.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. The radon daughter concentration in any habitable room is <0.02 working levels, or at most 0.03 WL.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Supplemental standards were applied in accordance with EPA standards 192.21.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TAC Recommendation: ☒ Certification, ☐ Long-term RDC results (detectors previously installed), ☐ Additional Measurements, ☐ Close-Out.

Robert Murphy
Radiological Services Manager/Date

William M. Moore 7/5/88
Vicinity Property Manager/Date

DOE Decision: ☐ Certify, ☐ Long-term RDC results (detectors previously installed), ☐ Additional Measurements, ☐ Close-Out.

Comments:

Gaston Tolance 08/08/88
DOE Evaluator Date

UAFU-9

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CERTIFICATION REVIEW SUMMARY

Property No.: SL-6285 Reviewed by: [Signature] Date: 7/21/88
 Address: 4500 South Street Approved by: [Signature] Date: 7/21/88
Salt Lake City, UT for Mark Miller
 Property Category: Street Right-of-Way Manager, Radiological Services
 Jacobs-Weston Team

The recommendation for certification is based on a review of the Completion Report and other available data describing remedial actions and resulting radiological conditions at this property. Measurement methods and data are compared to the requirements provided in the Vicinity Properties Management and Implementation Manual, and in 40 CFR 192. The following recommendations are made according to the intent of those requirements:

1.0 CERTIFICATION

- ☒ This property complies with the EPA standards and is recommended for Certification.
- ☐ This property is recommended for Certification only after the conditions listed in 3.0, below, are met.
- ☐ Remedial actions were refused by the property owner, and the property cannot be Certified.

2.0 SUPPLEMENTAL STANDARDS

- ☐ Supplemental Standards were not applied at this property.
- ☒ Supplemental Standards were applied as described in the Completion Report.
- ☒ The following agencies concurred in the application of Supplemental Standards at this property.

URC State of Utah Utah DOT (property owner)

3.0 CONDITIONS

- ☐ Annual average RDC results are required.
- ☐ The following additional measurements are required:

- ☐ The following additional actions must be completed:

VICINITY PROPERTY CERTIFICATION REVIEW
FOR COMPLIANCE WITH RADIOLOGICAL STANDARDS

Property No. SL-628

Qty. of soil removed: 265 (yd³)

RA Contractor WIK-F

Address: 4500 South Street

Reviewer: John Culp

Subcontractors Harper

Salt Lake City UT

Date: 7/21/88

Excavating, Inc.

CERTIFICATION REQUIREMENT

COMPLIANCE
Yes No N/A

COMMENTS (Reference page in completion report)

I. SOIL EXCAVATION

1. Were soil samples collected/analyzed?
(List quantity of surface and sub-surface samples.)

✓

2. Did grid intervals equal 10 feet or less? (List grid size and quantity sampled.)

✓

3. Were adequate spatial averaging techniques clearly demonstrated?

✓

4. Was an outdoor gamma survey conducted (List results.)

✓

5. Were alternate measurements performed? (List types of measurements, range, and average of results.)

✓

6. Were all contaminated areas sampled after excavation?

✓

295 verification grids.

estimated depth of contamination
48" SL-528-015

in accordance w/ H.P. procedure 015

grid size appears to be $\leq 100 \text{ m}^2$
SL-528-016

SL-528-016

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

CERTIFICATION REQUIREMENT	COMPLIANCE Yes No N/A			COMMENTS (Reference page in completion report)
I. SOIL EXCAVATION (Continued)				
7. Were soil concentrations of Ra-226, averaged over 100m ² , less than:				Excavated to depth of 15 cm
o 5 pCi/g plus background (surface)? (List range of results).			✓	
o 15 pCi/g plus background (subsurface)?	✓			
8. If excavation was done around structures or utility conduits to structures, was contamination removed to background levels?		✓		pgs range Ra-226 4.0 to 11.3 pCi/g with exception of 126.4 pCi/g from area for which Supplemental STDs are being applied for
II. INDOOR GAMMA SURVEY				
1. Were assessment measurements taken in the lowest habitable level of every habitable building?			✓	
2. Were small rooms scanned and large rooms (2000 sq.ft.) gridded at intervals of 10 ft. or smaller?			✓	NO STRUCTURES EXIST
3. Were verification measurements taken at locations of prior maximum readings?			✓	

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

CERTIFICATION REQUIREMENT	COMPLIANCE Yes No N/A			COMMENTS (Reference page in completion report)
II. INDOOR GAMMA SURVEY (Continued)				
4. Were instrument readings converted to indicate microR/hr? (List range and average of readings.)			/	
5. After remedial action, was the average value for each room or 2000 sq.ft.-area less than 20 microR/hr above background?			/	
6. If any reading exceeded 20 microR/hr above background, was it satisfactorily investigated to ensure no tailings involvement?			/	NO STRUCTURES
III. INDOOR RDC MEASUREMENTS				
1. If RDC measurements were performed before remedial action, and results were above standards, were they repeated after remedial action was completed?			/	
2. If no RDC measurements were performed before remedial action, were they taken in every habitable structure after remedial action?			/	

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

CERTIFICATION REQUIREMENT	COMPLIANCE			COMMENTS (Reference page in completion report)
	Yes	No	N/A	
III. INDOOR RDC MEASUREMENTS (Continued)				
3. If tailings were excavated near the structure, or around utility conduits into the structure, were RDC measurements performed after remedial action?			/	
4. If grab samples were used for verification, were acceptable procedures used?			/	
5. Were grab sample results less than 0.01 WL? (List range and average of results.)			/	
6. If annual average measurements were used for verification, were acceptable procedures followed?			/	
7. Were annual average RDC results less than EPA WL standards? (List range and average of results.)			/	
8. If annual average RDC results were between 0.02 WL and 0.03 WL, was appropriate justification given?			/	

NO
STRUCTURES

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

CERTIFICATION REQUIREMENT	COMPLIANCE			COMMENTS (Reference page in completion report)
	Yes	No	N/A	
IV. OTHER VERIFICATION MEASUREMENTS				
1. If adequate verification data is not presented, were additional measurements taken?			<input checked="" type="checkbox"/>	
2. Were acceptable procedures used?			<input checked="" type="checkbox"/>	
3. Were indoor Rn-222 results less than 2.0 pCi/l?			<input checked="" type="checkbox"/>	
4. Were surface alpha contamination levels less than:				
o 20 dpm/100 sq.cm. for removable alpha activity?			<input checked="" type="checkbox"/>	
o 100 dpm/100 sq.cm. for total alpha activity?			<input checked="" type="checkbox"/>	
5. Was Ra-226 the only radionuclide of concern at this property? If not, explain.			<input checked="" type="checkbox"/>	
6. Were additional measurements performed? (Type, results.)			<input checked="" type="checkbox"/>	

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

CERTIFICATION REQUIREMENT	COMPLIANCE Yes No N/A			COMMENTS (Reference page in completion report)
V. SUPPLEMENTAL STANDARDS				
1. If numerical standards were not met, is this due to presence of natural radioactivity? (What data shows this.)		✓		<u>PGP</u> contaminated material remains underneath the paved road surface at a depth of four feet. They are located around a 12" water line and a 8" high pressure gas line. approx 17cy of material.
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?	✓			
4. Did appropriate state and Federal agencies concur in this application of supplemental standards?	✓			
VI. SITE AUDIT RESULTS				Utah DOT (property owner) NRC State of Utah
1. If a site audit was performed at this property, were the results satisfactory?			✓	
2. If the contractor's effort's were evaluated at other properties, were the results satisfactory?	✓			

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

CERTIFICATION REQUIREMENT	COMPLIANCE			COMMENTS (Reference page in completion report)
	Yes	No	N/A	
VII. ADDITIONAL CONSIDERATIONS				
1. Are there any additional comments or considerations?		✓		
VIII. CERTIFICATION				
1. Is this property recommended for certification as meeting the EPA standards for residual radioactive material? If not, why?	✓			