

040Wm039420E

UMT/MIS/0989-393

wm-39



Department of Energy

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

Vicinity Property No. CA-501S
Address: 27 Latimer Avenue
N. Strabane, Pennsylvania 15363

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) (GM004-85AL26037), 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,

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

cc:
James G. Yusko, PDER, PA

NRC FILE CENTER COPY

OFFICIAL DOCKET COPY *URFO-8*

9707100301 901011
PDR WASTE
WM-39 PDR

Add Info
89-1006

VICINITY PROPERTY CERTIFICATION SUMMARY AND DECISION

Location No.: CA-5018

Date: 5-13-89

The data presented in the certification folder indicate:

	TAC Evaluation Yes No N/A	DOE Evaluation 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 [] lab [].	<input checked="" 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 [] lab [].	[] <input checked="" type="checkbox"/> []	[] [] []
3. The indoor gamma readings are <20 uR/hr above background in every habitable room.	[] [] <input checked="" type="checkbox"/>	[] [] []
4. The radon daughter concentration in any habitable room is <0.02 working levels, or at most 0.03 WL.	[] [] <input checked="" type="checkbox"/>	[] [] []
5. Supplemental standards were applied in accordance with EPA standards 192.21.	<input checked="" type="checkbox"/> [] []	[] [] []

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

Mark Smith 7/3/89
Radiological Services Manager/Date

Marshall Moore 7/6/89
Vicinity Property Manager/Date

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

Comments:

Gaston B. Talanca 6/16/89
DOE Evaluator Date

CERTIFICATION REVIEW SUMMARY

Property No.: CA-5015 Reviewed by: DL HAYES Date: 5-17-89
Address: 27 LATIMER AVE Approved by: Mark Miller Date: 7/3/89
NORTH STATEWAY, PA 15363
Property Category: ROAD
Mark Miller
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.

NRC and PENNSYLVANIA BUREAU OF RADIATION PROTECTION

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. CA-SOIS

Qty. of soil removed: NA (yd³)

RA Contractor MK-F

Address: 27 LATIMER AVE.

Reviewer: DL HAYES

Subcontractors _____

NORTH SYRACUSE, PA 15363

Date: 5-17-89

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?

✓		
		✓
		✓
✓		
		✓
✓		

page 3 comp. rpt. — soil samples were taken under the pavement from the list in Appendix A it appears that 25 soil samples were taken — the highest concentration of Pb-226 measured was 49.5 pCi/g

page 3 comp. rpt. — range ~ 16-18 μ R/h
BKG ~ 13 μ R/h

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

CERTIFICATION REQUIREMENT	COMPLIANCE			COMMENTS (Reference page in completion report)
	Yes	No	N/A	
I. SOIL EXCAVATION (Continued)				
7. Were soil concentrations of Ra-226, averaged over 100m ² , less than:			✓	
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?			✓	
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?			✓	
3. Were verification measurements taken at locations of prior maximum readings?			✓	

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

CERTIFICATION REQUIREMENT	COMPLIANCE			COMMENTS (Reference page in completion report)
	Yes	No	N/A	
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?			✓	
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?			✓	

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?			✓	
2. Were acceptable procedures used?	✓			
3. Were indoor Rn-222 results less than 2.0 pCi/l?			✓	
4. Were surface alpha contamination levels less than:				
o 20 dpm/100 sq.cm. for removable alpha activity?			✓	
o 100 dpm/100 sq.cm. for total alpha activity?			✓	
5. Was Ra-226 the only radionuclide of concern at this property? If not, explain.	✓			
6. Were additional measurements performed? (Type, results.)			✓	

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

CERTIFICATION REQUIREMENT	COMPLIANCE			COMMENTS (Reference page in completion report)
	Yes	No	N/A	
V. SUPPLEMENTAL STANDARDS				
1. If numerical standards were not met, is this due to presence of natural radioactivity? (What data shows this.)		✓		
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?	✓			NRC and Pennsylvania Bureau of Radiation Protection concur
VI. SITE AUDIT RESULTS				
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?			✓	