

APR 04 1991



SPK-D00244996

Letter is in response to letter dated Nov 6, 1990 requesting certification concurrence

Mark L. Matthews, Project Manager
 Uranium Mill Tailings Remedial
 Action Project Office
 U.S. Department of Energy
 Albuquerque Operations Office
 P.O. Box 5400
 Albuquerque, New Mexico 87115

Dear Mr. Matthews:

This letter is in response to your letter dated November 6, 1990, requesting NRC certification concurrence on the Vicinity Property Completion Report for the following property:

Property No: SK-001S

Address: 1558 Ross Road
 Douglas, Wyoming 82633

The NRC conditionally concurred with the proposed remedial action and the application of supplemental standards at this property in a letter dated April 5, 1990. The concurrence was conditional based upon DOE's deferral of the groundwater evaluation and cleanup to a separate phase of the project.

Based on a review of this Vicinity Property Completion Report (enclosed) and pursuant to EPA Regulations 40 CFR 192.12 and 192.20-23, as well as the Memorandum of Understanding between DOE and NRC, we concur with the completion of surface remedial action and have completed the NRC Review Form (enclosed). Selection and performance of the groundwater evaluation and cleanup aspects of the remedial action will be reviewed as part of a separate phase of the project.

Sincerely, ORIGINAL SIGNED BY

John J. Surmeier, Chief
 Uranium Recovery Branch
 Division of Low-Level Waste Management
 and Decommissioning, NMSS

Enclosures: As stated

cc: M. Abrams, DOE Atb.

P. Mann, DOE Atb.

J. Erickson, Wyoming DEO

Distribution:	Central File	NMSS r/f	LLUR r/f	AMullins
DGillen	MFiege	JSurmeier	JAustin	PLohaus
JGreeves	RBangart	WBeach, RIV	RHall, RIV, URFO	

PDR: YES ☒ NO ☐ Category: Proprietary ☐ or CF Only ☐ACNW: YES ☒ NO ☐

SUBJECT ABSTRACT: NRC CERTIFICATION CONCUR. ON VICINITY PROPERTY COMPLET REPT

OFC: LLUR : LLUR : LLUR

NAME: AMullins : DGillen : JSurmeier

DATE: 4/3/91 : 4/3/91 : 4/4/91

AN/VC PROP OFFICIAL RECORD COPY

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 PDR WASTE
 UM-392 PDR

NRC Docket File No. WM-00072

SPK 0030. (B)

Review of Vicinity Property Completion Report
for Property No. SK-0015

The acid pond associated with the Spook uranium mill site in Wyoming was not cleaned up with the mill site but was handled as a vicinity property. Waste acid from the milling circuit with associated radioactive elements, had been disposed of in the pond.

A drilling characterization survey indicated radioactive contamination in excess of 40 CFR 192 criteria to a depth of at least 80 feet. Analysis of the drill data by DOE indicated that excavating contaminated material to a depth of 20 feet and backfilling the pit with uncontaminated material, would reduce the surface effects from the residual contamination and the naturally occurring deposits of Ra-226 and Th-230 to levels that would meet 40 CFR 192 requirements. DOE's Radiological and Engineering Assessment (REA) proposal to apply a supplemental standard requiring 20 feet of excavation and backfill was approved by the NRC staff in a letter dated April 5, 1990.

As indicated in the completion report, the pond was excavated to a depth of 20 feet and soil samples were taken on a 10 meter grid to document as built conditions. Radium concentrations in these samples ranged from 1.1 to 25 pCi/g and thorium concentrations ranged from 1.9 to 750 pCi/g. These values are consistent with values applied in the REA analysis. A total of 41,202 cubic yards of material was removed from the Spook acid pond and disposed of in the Spook pit tailings disposal embankment. The excavation was backfilled with 20 feet of clean fill. Based on a review of the completion report for this property, the staff concludes that remedial action was performed as defined in the REA.

Groundwater evaluation for this vicinity property and cleanup if required, will be addressed in a later phase along with the Spook uranium mill tailings site which is contiguous with this property.

VP No.: SK-001S

NRC Review Form
for Supplemental Standards 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 Assessment (REA) given on: 11/15/90

☐ Supplemental standards were not in the REA, special circumstances required that supplemental standards be involved during remedial action.

Gaeton B. Falance

Gaeton Falance, DOE Certification Officer

Date 11/15/90

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. Groundwater evaluation for this vicinity property and
2. cleanup if required, will be addressed in a later phase along
3. with the Spook uranium mill tailings site which is contiguous
with this property.

☐ 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.

John L. Sumner
NRC Concurring Official and Title

4-4-91
Date