

May 02, 1999

Mr. Mark Moxley
Wyoming Department of Environmental Quality
250 Lincoln Street
Lander, WY 82520-2848

SUBJECT: RADON FLUX MEASUREMENTS ON TAILINGS PILE NO. 2 AT AMERICAN NUCLEAR CORPORATION GAS HILLS SITE

Dear Mr. Moxley:

The U.S. Nuclear Regulatory Commission (NRC) staff has completed its review of the Radon Flux Report for Tailings Pile No. 2 at the American Nuclear Corporation's (ANC's) Gas Hills, Wyoming, site. The report was submitted by the Wyoming Department of Environmental Quality's (WDEQ) letter dated August 20, 1997, and supplemented by additional data submitted in WDEQ's letter dated February 3, 1999.

The radon barrier portion of the Tailings Pile No. 2 cover was completed in June 1997. The WDEQ has provided the required demonstration (averaged measured flux of 0.5 pCi/m²), indicating that the radon flux from the cover surface does not exceed the 20 pCi/m² limit of Criterion 6 of Title 10, Code of Federal Regulations, Part 40 (10 CFR Part 40), and indicating that the appropriate procedures were followed.

After review and evaluation of the data, the staff has concluded that the radon flux test results and supporting data indicate that the requirements of 10 CFR, Part 40, Appendix A, Criterion 6(2) and (4) have been met. NRC's approval of the radon flux measurement data should be referenced in WDEQ's final completion report for the ANC site.

If you have any questions regarding this letter, please contact Ken Hooks, the NRC Project Manager for the ANC Gas Hills site, at (301) 415-7777.

Sincerely,

Original Signed By C. Abrams for
N. King Stablein, Acting Chief
Uranium Recovery and
Low-Level Waste Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

Docket No. 40-⁴⁴⁹²8903

License No. SUA-~~1474~~ 667

cc: Russel Edge, DOE Grand Junction
Rick Chancellor, WDEQ Cheyenne
William Salisbury, ANC Casper

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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After review and evaluation of the data, the staff has concluded that the radon flux test results and supporting data indicate that the requirements of 10 CFR, Part 40, Appendix A, Criterion 6(2) and (4) have been met. NRC's approval of the radon flux measurement data should be referenced in WDEQ's final completion report for the ANC site.

If you have any questions regarding this letter, please contact Ken Hooks, the NRC Project Manager for the ANC Gas Hills site, at (301) 415-7777.

Sincerely,

A handwritten signature in cursive script that reads "Charlotte Abrams for".

N. King Stablein, Acting Chief
Uranium Recovery and
Low-Level Waste Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

Docket No. 40-⁴⁴⁹²8903
License No. SUA-1471 667

cc: Russel Edge, DOE Grand Junction
Rick Chancellor, WDEQ Cheyenne
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