

UNITED NUCLEAR
CORPORATION
MINING AND MILLING DIVISION

January 12, 1979

Mr. J. Stewart
New Mexico Environmental Improvement Agency
Radiation Protection Section
P.O. Box 2348 - Crown Building
Santa Fe, New Mexico 87503

Dear Mr. Stewart,

Pursuant to our telephone conversation of January 9, 1979, where I pointed out the urgency for immediately placing mill tailings in the North-east Churchrock Mine for support of the ore pillars, the Mining and Milling Division of United Nuclear Corporation requests that Radioactive Material License No. NM-UNC-ML-06 be amended to permit this action.

In support of this request, the following data are forwarded:

1. An analysis of the projected sand fill material (See Attachment A).
2. Analyses of the drainage water from the first two sand fill areas will be performed for the perimeters listed on Attachment B and forwarded.
3. It is necessary to point out that all drainage water from the sand filling project will be treated in the mine surface ponds and ion exchange plant prior to discharge. This discharge is regulated by NPDES Permit No. NM 0020401.
4. Working level and gamma radioactive surveys will be conducted at the loading points and in the transportation trucks on a quarterly basis.

Again, I cannot over-emphasize the urgency of this request.

Sincerely,



H.J. Abbiss
Vice President,
Environmental & Safety Services

cc: D.D. Turberville
T.M. Kilroy
A. Woods
C. Swanquist
W. Smit

N. Savignac, T. Miller
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ATTACHMENT A

PROJECTED SAND FILL MATERIAL

<u>Parameter</u>	<u>Solid*</u>
Ammonia	0.08
Arsenic	<0.01
Barium	0.40
Chloride	2.5
Chromium	<0.02
Cobalt	<0.05
Fluoride	<0.02
Iron	7.78
Lead	<0.05
Magnesium	0.60
Manganese	0.10
Molybdenum	<0.04
Nickel	<0.05
Nitrate	0.10
Selenium	0.06
Sodium	2.20
Sulfate	15.60
Vanadium	<0.10
Total Uranium	0.12
Radium - 226	93.4 pCi/gm
Thorium - 230	40 pCi/gm

* All values in mg/g unless otherwise noted

ATTACHMENT B

SAND FILL AREA DRAINAGE

Ammonia
Arsenic
Barium
Chloride
Chromium
Cobalt
Fluoride
Iron
Lead
Magnesium
Manganese
Molybdenum

Nickel
Nitrate
pH
Selenium
Sodium
Sulfate
Total Dissolved
Vanadium
Uranium
Radium - 226
Radium - 228
Thorium - 230