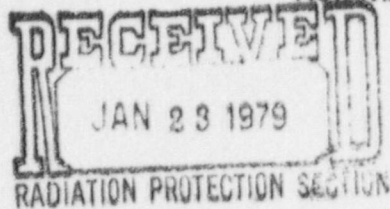


5 25/1  
UNC  
CHURCHMAN

# UNITED NUCLEAR CORPORATION

Mining and Milling Division  
New Mexico Operations



UNC - NECR MILL OPERATIONS  
P.O. DRAWER QQ  
GALLUP, NEW MEXICO 87301  
(505)722-6651

January 19, 1979

New Mexico Environmental Improvement Division  
Radiation Protection Section  
P. O. Box 2348  
Santa Fe, New Mexico 87503

ATTENTION: Alphonso A. Topp

REFERENCE: Radioactive Materials License No. NM-UNC-ML-GA-05

Dear Mr. Topp:

In compliance with License Condition No. 21, the attached effluent report is presented. This report specifies the concentration of each of the principal radionuclides released to unrestricted areas in liquid and gaseous effluents during the period from July 1, 1978, to December 31, 1978. The report also estimates the maximum annual radiation dose to the public resulting from effluent releases.

Regards,

A handwritten signature in dark ink, appearing to read "Todd Miller". The signature is fluid and cursive, with a long horizontal stroke at the end.

Todd Miller  
Environmental Coordinator

TM:tn

Enclosure

cc: H.J. Abbiss  
G.A. Swanquist  
A.W. Woods

9804140322 781231  
PDR ADOCK 04008907  
C PDR

CHURCHROCK URANIUM MILL EFFLUENT

	<u>Liquid Effluents (a)</u>	<u>Annual Population Dose Rate Estimate</u>
U-Natural	1.59	0.0 man-rem/yr.
Th-230	79.50	0.0
Ra-226	181.70	0.0

	<u>Gaseous and Particulate Effluent</u>	<u>Annual Population Dose Rate Estimate</u>
U-Natural	$2.38 \times 10^{-13}$ uCi/ml	5.88 man-rem/yr.
Th-230	$1.29 \times 10^{-15}$	0.53
Ra-226	$1.09 \times 10^{-14}$	0.74
Rn-222	0.00 (b)	0.00
	TOTAL	7.15 man-rem/yr.

(a) Unusual Occurrence on 9-30-78 was the only Liquid effluent during the specified time period.

(b) Observed values were less than measured background values.