T.W. Wolff

STATE OF NEW MEXICO

INSPECTOR OF MINES DEPARTMENT
505 MARQUETTE, N.W., ROOM 1103
ALBUQUERQUE, NEW MEXICO 87101

JUN 20 1975

SAFETY FIRST

JOE D. LONGACRE, SR.
STATE INSPECTOR OF MINES

OFFICE TELEPHONE 842-3055
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RADIATION

REPORT OF INSPECTION

I.D. No. 2900781
Section 19 Mine (Kerr-McGee Nuclear Corporation) { Mine } Typed June 22, 1976 / June 16,17, 1976
(Name) (Date of Inspection)

Uranium | McKinley | Filimon Gonzales, General Mine Foreman; Ken Neuner, Ventilation Technician
(Classification of Mine) (County in which located) (Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

GENERAL INFORMATION

Owner and Operator: Kerr-McGee Nuclear Corporation

Location: approximately 25 miles N of Grants, NM, on State Hwy. No. 509-A.

Employment:

Total	94
Underground	87

Work Schedule:

Hours per shift	8
Shifts per day	2
Days per week	5

Company Officials:
Billy Stevens, General Manager
Art Gebeau, Division Superintendent
Richard Chamberlain, Mine Superintendent
Filimon Gonzales, General Mine Foreman

Mining Method: modified room and pillar, drift development

Last radiation inspection: March 3, 4, 1976, and the report was posted.

Inspection Party: Kerr-McGee Nuclear Corporation
Filimon Gonzales, General Mine Foreman
Ken Neuner, Ventilation Technician

Mining Enforcement and Safety Administration
Francis T. Csepregi, Metal and Nonmetal Mine Inspector

State of New Mexico
George C. Henckel, Dust and Mine Gas Engineer

The inspector was accompanied by Messrs. Filimon Gonzales, Ken Neuner, Francis T. Csepregi, M.E.S.A., during the entire inspection. Mr. Neuner and Mr. Csepregi obtained duplicate radon-daughter samples for comparison purposes.

JOE D. LONGACRE, SR.
State Inspector of Mines

ONE COPY OF THIS REPORT SHALL BE POSTED IN A CONSPICUOUS PLACE AT THE MINE

The mine is opened by a 16½ foot diameter, four compartment shaft, 783 feet deep. The shaft is used for the hoisting and lowering of men and supplies, hoisting ore and waste rock and for ventilation.

The mine was ventilated by some 150,800 c.f.m. of air delivered and exhausted through the following openings:

Opening	I.D.	Air Direction	Ventilation c.f.m.	Make of Fan	HP
Shaft	65.5'	downcast	150,000	--	--
No. 1 BH	60"	upcast	54,000	Joy Series 1000	60
No. 2 BH	48"	upcast	21,000	Joy Series 1000	60
No. 3 BH	60"	upcast	33,500	Centrifugal Westinghouse	125
No. 4 BH	60"	upcast	21,000	Joy Series 1000	60
Section 30 No. 13	48"	upcast	21,300	Hartzell	125

The primary fans were surface mounted units. The boreholes were steel lined throughout the length of the openings. The air is distributed underground by the use of auxiliary fans, vent tubing, air doors, curtains and brattices.

Listed below are the radon-daughter concentrations, ventilation volume measurements and the average weighted exposure calculations for the various classes of mine personnel:

Sample No.	Sample Location	Ventilation c.f.m.	Man-Shift Exposure M&M	Stopes	Haulages	Working Level
1	4080 haulage development	convection	0.4	1.0		0.1
2	4000 haulage drift	5,100	0.4	1.0	1.0	Nil
3	4400 longhole drill	convection	0.3	1.0		0.1
4	4205 ore pass	2,000	0.4	2.0		0.2
5	4101 stope drill	1,000	0.4	1.0		0.3
6	4101 working drift	1,000	0.4	0.2		0.4
7	4202 stope slusher	1,000	0.3	1.0		0.4
8	4202 access drift	1,000	0.3	1.0		0.4
9	4103 stope slusher	2,000	0.3	2.0		0.2
10	4101 stope slusher	2,000	0.3	0.8		0.3
11	4000 lunchroom	1,500	0.3	0.5		Nil
12	1-3 station	adequate	0.3	2.0	1.0	Nil
13	1-3 shop	3,000	3.3			0
14	1-3 electric shop	convection	2.3			0
15	3103 stope slusher	1,500	0.3	2.0		0.6
16	3104 No. 1 stope slusher	2,000	0.4	0.8		Nil
17	3104 No. 2 stope slusher	2,000	0.3	0.8		0.2
18	3104 stope drill	1,000	0.3	0.4		0.1
19	3106 No. 2 stope slusher	1,000	0.3	1.0		Nil
20	3106 No. 1 stope slusher	1,000	0.4	1.0		Nil
21	3100 haulage drift	15,000	0.3		1.0	Nil
22	1-3 lunch room	2,500	0.3	0.5		Nil
23	1300 haulage development	4,000	0.4	4.0		Nil
24	1000 haulage drift	7,000	0.4		1.0	Nil
25	2080 haulage development	6,000	0.4	2.0		Nil
26	2010 stope drill	2,000	0.4	1.0		Nil
27	2010 stope slusher	convection	0.3	1.0		Nil
28	2000 haulage	34,000	0.3	2.0	1.0	Nil

Sample No.	Sample Location	Ventilation c.f.m.	Man-Shift Exposure M&M	Stopes	Haulages	Working Level
29	1-4 skip tender 7 station	adequate	0.4	2.0	1.0	Nil
30	1-4 shop	2,500	2.3			Nil
31	1-4 lunch room	2,200	0.3			Nil
32	3209 stope drill	2,000	0.4	1.0		0.1
33	3209 stope slusher	500	0.3	2.0		0.1
34	3200 haulage	20,000	0.4		1.0	Nil
35	3000 haulage	12,000	2.0			Nil
			19.0	37.0	7.0	

The average weighted exposures and the total mine exposure index were as follow:

Maintenance and Management - 0.1 x working level
Stopes and Developments - 0.1 x working level
Haulages - Nil
Total Mine Exposure Index - 0.1 x working level

NOTICES ISSUED JUNE 17, 1976

Notice No. 1, Section 63-4-5(c); NMSA: The power cable in 3209 manway shall be placed so as the second steel trap door does not close upon the cable. Abated 6-17-76.

Notice No. 2, Section 63-28-6, NMSA: The 1300 haulage development shall be provided with additional ground support. (57.3-22M) Abated 6-17-76.

Notice No. 3, Section 63-20-1, NMSA: The 3104 stope slusher shall have dust control. Abated 6-17-76.

Notice No. 4, SIM Rule No. 75-1(c): The jackleg drill in 4101 stope shall be provided with a safety chain or other suitable device. (57.13-21M) Abated 6-17-76.

Notice No. 5, Section 63-4-5(c), NMSA: The end of the vent tube in 4000 haulage drift shall be kept not more than thirty (30) feet from the face. Abated 6-17-76.

Notice No. 6, Section 63-4-5(c), NMSA: The end of the vent tube in 4400 drift shall be kept not more than thirty (30) feet from the drill position. Abated 6-17-76.

Notice No. 7, SIM Rule No. 71-2(2c): Evidence of cigarette smoking was found in 4000 drift. (57.5-41M) Abated 6-17-76

Notice No. 8, SIM Rule No. 71-2(2c): Evidence of cigarette smoking was found at the 1-4 station. (57.5-41M) Abated 6-17-76.

The above notices were discussed at the conclusion of the inspection with Messrs. Richard Chamberlain, Filimon Gonzales, Tivi C De Baca, Ken Neuner and Francis T. Csepregi, M.E.S.A.

ACKNOWLEDGEMENT

The courtesy and cooperation of Mr. Filimon Gonzales, Mr. Ken Neuner, staff and personnel of the Section 19 Mine are hereby gratefully acknowledged.

Inspected and Reported by:
George C. Henckel
Dust and Mine Gas Engineer
Deputy Inspector of Mines

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Approved: Joe D. Longacre Sr
JOE D. LONGACRE, SR.
State Inspector of Mines