



STATE OF NEW MEXICO
INSPECTOR OF MINES DEPARTMENT
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Wolf

SAFETY FIRST



JOE D. LONGACRE, SR.
STATE INSPECTOR OF MINES

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RADIATION
REPORT OF INSPECTION

I.D. No. 2900593

Section 32 (United Nuclear-Homestake Partners) {
(Name)

Mine

Typed June 14, 1977
June 1, 2, 1977.....
(Date of Inspection)

Underground Uranium
(Classification of Mine)

McKinley
(County in which located)

Pam Broadwine, Ventilation Sampler.....
(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: United Nuclear-Homestake Partners

Company Officials:

John Parker, General Manager
Frank Murray, Manager of Mines
Frank Didyoung, Mine Foreman
W. D. MacEvoy, Sr. Ventilation Engineer

Location: 24 miles NW of Grants, NM,
off State Highway 509.

Employment: 22

Mining method: modified room and pillar

Work Schedule:

Hours per shift 8
Shifts per day 1
Days per week 5

Previous inspection: February, 1977

Miss Pam Broadwine accompanied the inspector and obtained duplicate radon-daughter samples for comparison purposes.

The mine is opened by one vertical, three compartment shaft, 595 feet deep. The shaft is used for hoisting and lowering of men and materials, ventilation and for hoisting ore. The mine is interconnected with Kerr-McGee Section 30 Mine.

The mine was ventilated by some 81,000 c.f.m. of air delivered and exhausted through the following openings:

Opening	Size	Air Direction	Ventilation c.f.m.	Fan	HP	Depth of Opening
Shaft	4.7'x11.4'	downcast	81,000	-	-	595'
58W-28S(BH)	40"	upcast	34,650	Joy	100	552'
7E-4n (BH)	30"	upcast	13,600	Joy	30	565'
88E-4N (BH)	40"	upcast	22,840	Joy	60	605'

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980413002 ONE COPY OF THIS REPORT SHALL BE POSTED IN A CONSPICUOUS PLACE AT THE MINE

Main fans were surface mounted, electrically powered, axial flow type units. All boreholes were steel lined throughout the length of the opening. The air was distributed to the working areas by use of auxiliary fans and vent tubing. Underground airflow was controlled by overcasts, air doors, curtains, brattices and bulkheads.

The following are the radon-daughter concentrations, ventilation volumes and the average weighted exposure calculations for the various classes of mine personnel:

Sample No.	Sample Location	Ventilation c.f.m.	Man-Shift Exposure			Working Level
			M&M	Stopes	Haulages	
1	30W-55S drill position	1,500	0.3	1.0		0.2
2	30W-55S No. 2 slusher	500	0.2	0.5		2.2
3	30W-55S No. 1 slusher	convection	0.3	0.5		0.2
4	48W-50S longhole drill	500	0.2	1.0		0.1
5	48W-50S slusher	2,000	0.2	1.0		0.1
6	32-9, 32-6, 32AW haulages	35,000	0.3		1.0	Nil
7	30W-19S No. 4 slusher	800	0.3	0.5		0.1
8	30W-19S No. 3 slusher	500	0.2	0.5		0.1
9	30W-19S No. 2 slusher	convection	0.3	0.5		0.1
10	30W-19S No. 1 slusher	convection	0.2	0.5		Nil
11	106E-13N drill	1,000	0.3	0.5		0.8
12	106E-13N No. 2 slusher	500	0.2	0.5		0.2
13	106E-13N No. 1 slusher	500	0.3	1.0		0.2
14	32AE track	46,000	0.2		1.0	0.1
15	59E CP drill	2,500	0.3	1.0		0.2
16	59E-21S drill	3,000	0.2	0.5		0.2
17	59E-21S slusher	600	0.3	0.5		0.2
18	42E-14S drill	1,500	0.2	1.0		Nil
19	42E-14S slusher		0.3	1.0		0.1
20	station area	adequate	0.2	1.0	1.0	Nil
21	30W-55S No. 2 slusher - Resample, Cease Work Order		Abated.			0.1
	TOTALS		5.0	13.0	3.0	

The time weighted exposure for the various classes of mine personnel were as follow:

Maintenance and Management - 0.2 x working level
Stopes and Developments - 0.2 x working level
Haulages - Nil x working level
Total Mine Exposure Index - 0.2 x working level

CEASE WORK ORDER ISSUED 6-2-77

Order No. 1, SIM Rule No. 76-1(2c): For high radiation at 30W-55S No. 2 slusher position. (57.5-39M) Abated 6-8-77.

NOTICES ISSUED 6-2-77

Notice No. 1, Section 63-23-7, NMSA: The supply train shall be equipped with a working trip light. Abated 6-2-77.

Notice No. 2, SIM Rule No. 74-3(2a): The man working in stope shall keep his self-rescuer within twenty-five (25) feet at all times. (57.15-31M) Abated 6-2-77.

The notices and order were discussed with Mr. Frank Didyoung.

ACKNOWLEDGEMENT

The courtesy and cooperation of the staff and personnel of the Section 32 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.
State Inspector of Mines