40-6659

PETROTOMICS COMPANY

P. O DRAWER 2450

January 25, 1965

Mr. Lyall Johnson, Director Division of Licensing and Regulation U. S. Atomic Energy Commission Washington 25, D. C.

Dear Mr. Johnson:

In compliance with Section 20, 405, 10 CFR 20, we are notifying you of an over exposure to excessive levels and concentrations. The incident which occurred in the yellow cake drier room of the Petrotomics' Mill located in Shirley Basin, Wyoming, on December 16, 1964. Atomic Energy Commission Source Material License No. SUA-551.

Two maintenance men were exposed to an air-borne concentration of natural uranium 3.74 x MPC for the period December 13, to December 26. The work consisted of replacing refractory in the yellow cake drier which is a non-routine operation, this being the first repairs necessary in 33 months of operation.

At all times during this operation the men wore respirators (dust Foe #06 with dust and mist filters supplied by Mine Safety Appliances).

Corrective measures were taken when additional work had to be done on January 19, 1965. This consited of the use of a vacuum cleaner around the work area with constant wetting with water. Survey results showed the exposure reduced to 0, 18 times MPC.

The two men, James K. Cooper and Calvin L. Olson, have received written notification of the over exposure in compliance with Section 20. 404, 10 CFR 20.

Very truly yours,

Petrotomics Company

G. K. Coates

G. K. Coates Project Manager

8507300250 850530 PDR FDIA BURR85-229 PDR



JOB EXPOSURE EVALUATION

Survey Period Jan. 19, 1965

BUILDING Mill

PROCESS AREA Maintenance on Y. C. Drier

OPERATOR

men/shift

shift/day 4 men x 2 hours 15 minutes on drier, men/day

4 men x 97 hours 45 minutes on Gen. Mill Area.

Operation or Operating Area	Time Per XXX Day	Oper. Per Shift	Time Perdays	Sample No.	toncentration **Example / c/mlx10 ⁻¹¹ fligh Low Avg. (C)	TXC
Opening Drier Ports	35 min	1	35	964	20.8	728.0
Cement Work	60 min	1	40	965	5. 1	204.0
Cement Work	60 min	1	60	966	7. 1	426.0
Gen. Mill Area	465 min	1	465	936	.4	186.0
Gen. Mill Area	600 min	9	5400	936	.4	2160.0

Z(T) 6000

Z(TXC) 3, 704, 0

Z(TxC) = .617Z(T) Fc/mix10-11

.129

MPC

This survey report for work identical to that performed Dec. 16, 1964, demonstrates the effectiveness of the corrective measures taken.

50 Hr. Week (Normal)= 4.80 /c/mlx10-11

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PETROTOMICS COMPANY

JOB EXPOSURE EVALUATION

Survey Period Dec. 16, 1964

Mill BUILDING.

PROCESS AREA Maintenance on Y. C. Drier

OPERATOR

men/shift

shift/day.

2 men 2 hrs. 0 min. on Drier 98 hrs. 0 min on Gen. Mill. Angs.

Operation or Operating Area	For Sexday	Oper. Per Shift	Time 14 Perdays SKAX11	Sample No.	Concentration XXXXXX P c/mlxl0 ^{-ll} Itigh Low Avg (C)	TXC
Opening Drier Ports	60 min	1	60	962	841,00	50, 460
Refractory Work	60 min	1	60	963	816,00	54,960
Gen. Mill Area	480 min	1	480	961	0, 39	187
Gen Mill Area	600	9	5400	961	0.39	2, 106
E						

7(1)

Z(T) 6000

Z(TXC) 107,713

17.95

c/mix10-ll

3,74

MPC

*Calculated in accordance with condition 12, License SUA-551 for 100 hours worked in a 14-day period, Dec. 14, 1964 to Dec. 26, 1964. The 14-day period consisted of two 5-day, 50-hour work weeks separated by 2 days off.

50 Hr. Week (Normal)= 4, 80 / c/mlx10-11

	DATE OF DOCUMENT.	DATE MCROS	5	NO. 35%		
Casper, Vyoning	LTR. MEMO: REPORT: OTHER:					
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Lyall Schman	ACTION NECESSARY	CONCURRENCE	0 0	DATE ANSWERED		
CLASSIF. POST OFFICE	FILE CODE: 40-6659					
tr. advising in compliance w/Section to.b05, 10 CFR 20, of an over exposure to two (2) individuals of excessive evels and concentrationsAttached:	Spinos Spinos	7.00				
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