

WESTERN NUCLEAR, INC.

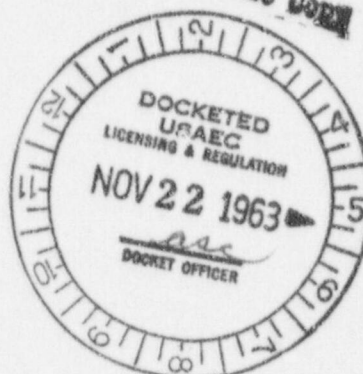
FIELD OFFICE • JEFFREY CITY, WYOMING • AREA CODE 307 544-2291

23 October 1963

Ref: LR-WFN
40-1162
40-6787

LR File Copy

Mr. Eber R. Price
Assistant Director
Div. of Licensing & Regulation
U. S. Atomic Energy Commission
Washington 25, D. C. 20545

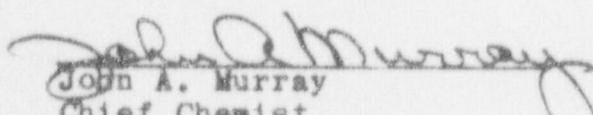


Dear Mr. Price:

At the request of D. S. Mashbir, Manager, Metallurgical & Chemical Department, I enclose herewith the results of the 3rd Quarter 1963 time weighted evaluation of exposure survey on the Yellow Cake Operator.

This survey incorporates values of samples taken, as closely as possible, from the locations and for the periods requested by Mr. Paul Alley of the Atomic Energy Commission.

Very truly yours,


John A. Murray
Chief Chemist
Western Nuclear, Inc.

Encl.



9811200292 631023
PDR ADOCK 040*****
C PDR

ACKNOWLEDGED

Job Classification Packaging Area
Conducted by H. Floyd
Checked by J. Murray

WESTERN NUCLEAR, INC.

Date 3rd Quarter 1963
To (July through Sept.)

Job Evaluation Work Sheet #2

Description of Operation	Average Cycle Time	Average Cycles/ day	Total Time Hrs/day	Volume Breathed ml X 10 ⁶	Assay uc/ml Average X 10 ⁻¹¹	Total uc/day Intake X 10 ⁻⁵	Sample Vol.	Remarks
Checking Y.C. Feed	11.4 min.	5	57.0	0.855	0.07	0.060	100 L.	
Check Barrell Filling	1.33'	9	11.97	0.180	14.2	2.550	10 L.	
Washing, cleaning & vacuuming	21.8'	5	109.00	1.635	1.95	3.190	100 L.	
Check Roaster temp.	1.94'	16	31.04	0.466	1.90	0.855	200 L.	
Check, Clean Roaster arms	1.18'	17	20.00	0.300	62.44	18.7	10 L.	
Stencil, paint, wash, weigh, move drums	5.77'	13	75.01	1.130	0.58	0.655	100 L.	
Change drums, sample & close	5.40'	9	48.6	0.729	21.73	15.84	30 L.	
Misc. Outside Area	7.75'	16	124.0	1.836	0.29	0.532	100 L.	
TOTALS								

$$\frac{\text{Total uc/day}}{\text{Total ml breathed}} = \frac{42.41}{7.13} \times 10^{-11} \text{ uc/ml}$$

$$\text{Average exposure} = 5.95 \times 10^{-11} \text{ uc/ml}$$
