

# PETROTOMICS COMPANY

GETTY

XXXXXXXXXXXXXXXXX OIL COMPANY • MANAGING PARTNER  
P. O. DRAWER 2450  
CASPER WYOMING

March 28, 1968

DOCKET NO. 40-6659

Regulatory Suppl File Cy.

Mr. Donald A. Nussbaumer, Chief  
Source & Special Nuclear Materials Branch  
Material Branch  
Division of Material Licensing  
U. S. ATOMIC ENERGY COMMISSION  
Washington 25, D. C.

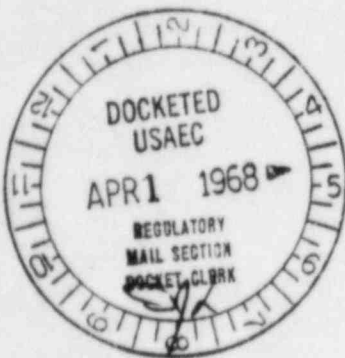
Dear Mr. Nussbaumer:

With reference to the four items which were listed in your  
letter of March 14, 1968, we submit the attached information.

Very truly yours,

PETROTOMICS COMPANY

*Judson H. Whitman*  
Judson H. Whitman  
Acting Manager



JHW:d1w

Attachments

cc: Messrs. C. E. Wolff  
H. G. Cooley

8507300392 850530  
PDR FOIA  
BURR85-229 PDR

ACKNOWLEDGED

*Certified # 992850*

*A/79*

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ITEM 1

A flowsheet is enclosed of the expanded plant. Specific changes include additions of a new 6' x 8' Marcy Ball Mill and associated piping, five new 14' x 14' leach tanks, three new 12' x 80' thickeners, a new 12' x 32' clarification surge tank, a new Model 600 U. S. Filter and a duplicate Solvent Extraction circuit. This design is to increase plant through put to 1,000 tons per day and incorporation of anhydrous ammonia precipitation.

ITEM 2

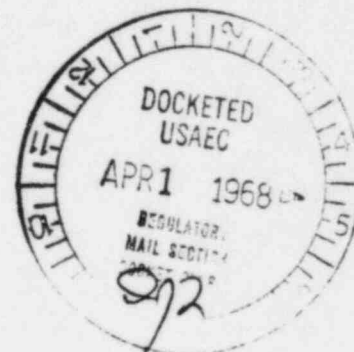
As has been past practice, time studies will be conducted to cover any possible employee exposures. However, we anticipate very few changes, with the exception of adding an additional crushing crew. Currently, a special dust sampling survey is being conducted in the precipitation and drying areas. Results of this survey are attached herewith.

ITEM 3

The Heap Leach circuit is operated approximately five months per year, weather permitting. Production is estimated at 2,000 pounds  $U_3O_8$  per month, from an initial stockpile of 20,000 tons of protore. A special radiation survey will be conducted during the extent of heap leaching operations.

ITEM 4

Currently, we are in the process of establishing an automated pumping unit to return the seepage to the main dam, thus complying with 10-CFR-20. The installation of this unit will be complete on April 1, 1968. In the case of an emergency, such as pump or power failures, we are requesting special authorization to release effluents, as provided by Section 20.106 of Part 20.



DOCKET NO. 40-6659

March 27, 1968

Regulatory Suppl File Cy.

TO: MR. C. E. WOLFF  
FROM: H. G. COOLEY  
SUBJECT: RADIATION STUDY OF NH<sub>3</sub> PRECIPITATION AREA

A special general area survey was conducted on March 26, 1968, to study radiation levels associated with ammonia precipitation. This circuit change was initiated on February 8, 1968.

The following results are well below MPC. With the current clean up and radiation safety program, I am hopeful this area level can be maintained.

Special Ammonia Precipitation Study

<u>Sample Area</u>	<u>Type of Sample</u>	<u>Assay</u>
1. Tank A	General Area	0.27 ucU/ml x 10 <sup>-11</sup>
2. Tank B	" "	0.94 ucU/ml x 10 <sup>-11</sup>
3. Filter Press	" "	0.71 ucU/ml x 10 <sup>-11</sup>
4. Yellow Cake Slurry Tank	" "	0.22 ucU/ml x 10 <sup>-11</sup>
5. Drier Room by East Wall	" "	0.10 ucU/ml x 10 <sup>-11</sup>
6. Drier about 5' from West Side	" "	0.10 ucU/ml x 10 <sup>-11</sup>
7. Drier Room by West Wall	" "	0.30 ucU/ml x 10 <sup>-11</sup>
8. Yellow Cake Packaging East Area	" "	0.03 ucU/ml x 10 <sup>-11</sup>
9. Yellow Cake Packaging West Area	" "	0.10 ucU/ml x 10 <sup>-11</sup>

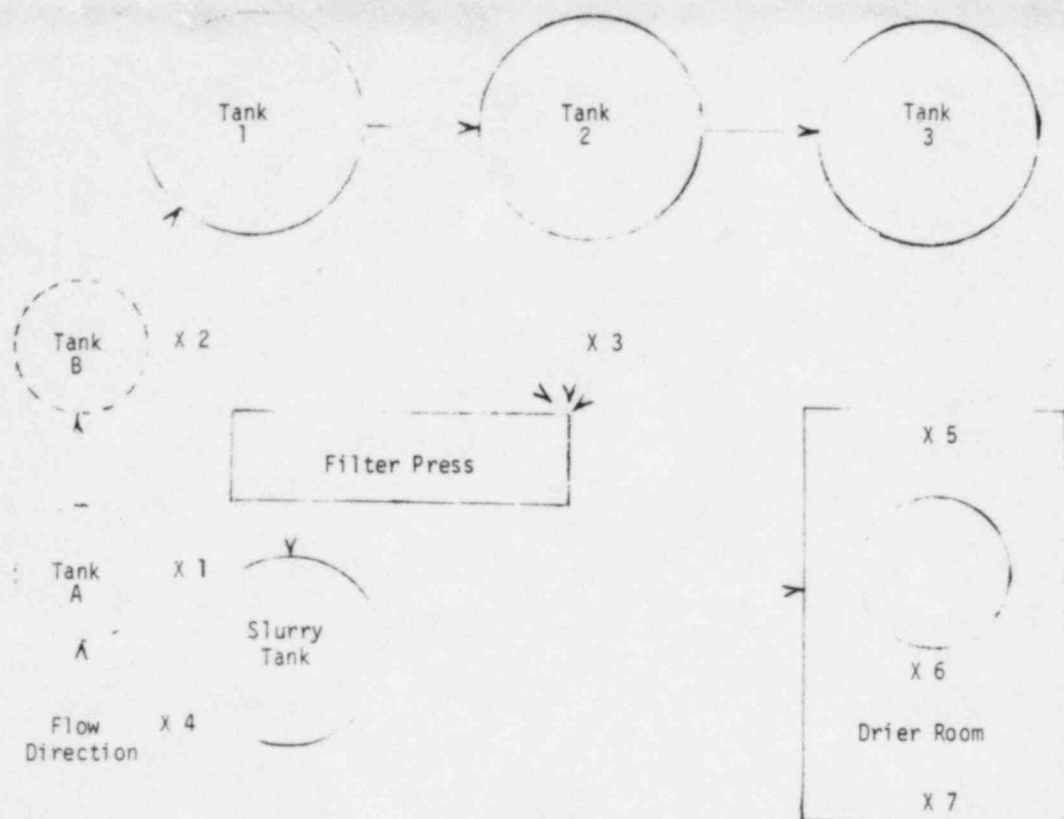
*H G Cooley*  
H. G. COOLEY

HGC:d1w



ITEM 2 ATTACHMENT

# SURVEY SKETCH



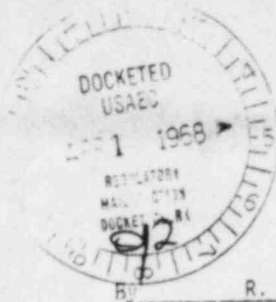
## Note:

1. X indicates sample collection point.
2. General area samples were collected from a sample stand 5' high.
3. Tanks A & B are additions to the existing circuit.
4. Sketch is not to scale.
5. Sampled and assayed by R. E. Palmer.



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Regulatory Suppl File Cy.



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## GEIGER COUNT SURVEY

Regulatory Suppl File Cy.

BY R. E. Palmer

Period March, 1968

Area	Reading	Remarks
Grizzly	.18	Reading in Mr/Hr.
Primary Crusher	.05	
Secondary Crusher	.08	
Top of Mine Ore Dins	.07	
Grind Section	.10	
North Leach Tanks	.03	
South Leach Tanks	.10	
55' Thickeners		
No. 1	.03	Under Construction
No. 2	.03	" "
No. 3	.03	" "
55' Thickeners		
No. 1	.06	
No. 2	.05	
No. 3	.04	
No. 4	.035	
No. 5	.030	
No. 6	.040	
North Solvent Extraction	.03	Under Construction
South Solvent Extraction	.04	
Precipitation	.11	
Drying	.20	
Packaging Room	.13	
Sample Preparation	.04	
Reagent Mix Area	.10	
Change Room	.40	
Shift Office	.10	
Maintenance Shop	.015	
Laboratory	.02	
Tails Pump House	.07	

APPENDIX 2 ATTACHMENT

1145



AIR MAIL

CERTIFIED

No. 992850

MAIL

DATE OF DOCUMENT		DATE RECEIVED	
LTR.	MEMO	REPORT	OTHER
TO: Judson H. Whitman		OTHER:	
FROM: <b>Kussbauer</b>		2 cys. reproduced	
CLASSIF.: 7		FILE CODE: <b>10-6659</b>	
POST OFFICE REG. NO:		DATE ANSWERED: BY:	
DESCRIPTION: (Must Be Unclassified)		DATE	
ltr. re: four items listed in our ltr. of 3-14-67, and trans:		REFERRED TO	DATE
		<b>Kussbauer</b>	<b>1/2</b>
		<b>w/file cy. &amp; file</b>	
ENCLOSURES: (1 cy. res'd.)			
Sheet re: Items 1-4			
Memo - "Radiation Study....."			
Survey Sketch			
Geiger Count Survey			
DWG No. 00-1-11 - "Flow Diagram" ( <del>NOT REPRODUCIBLE</del> )			
REMARKS:		DO NOT REMOVE	
List: 1-PD: cy. (w/o DWG 00-1-11)		ACKNOWLEDGED	
1-compliance (w/o DWG 00-1-11)		DJR	

U. S. ATOMIC ENERGY COMMISSION

MAIL CONTROL FORM

FORM AEC-3265  
(8-60)