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OAK RIDGE NATIONAL LABORATORY
CENTRAL FILES NUMBER
48-9- 89

1609

B-137

Date (September 13, 1948)

File

Subject Pilot Plant Wastes

Those Eligible To Read The Attached

INV. 64

By D. G. Reid

Copy # 6 A

To E. J. Witkowksi

D. G. Reid

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Name	Date	Name	Date
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This document has been approved for release to the public by:

David R Hamrin 5/16/95
Technical Information Officer Date
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To: E. J. Witkowski

From: D. G. Reid

Subject: Pilot Plant Wastes

Classification Cancelled [redacted]
TO
By Authority of
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Per our telephone conversation of September 8, 1948, given below is a list of the wastes expected to be discharged from the Pilot Plant in Building 205 during the next six months. These wastes will be discharged during the investigations being made of the Redox process, which is expected to last until approximately April 1, 1948. These wastes do not include any solutions from decontaminations that may be necessary during these investigations.

1. Approximately 2000 gallons per month of 0.74M $Al(NO_3)_3$ solution, containing only fission products. This will give a total of approximately 12,000 gallons of waste which will be sent directly to Tank W5 for ultimate disposal to White Oak Creek.

2. The 1.3M $Al(NO_3)_3$ solution, containing Pu, will be stored in Cell 4 for ultimate recovery of the Pu. The wastes from this recovery will amount to approximately 2 to 3 thousand gallons and, as in Item 1, will contain no Pu and will be sent directly to Tank W5.

3. The uranium as 0.85M UNH in the second cycle Redox investigations will amount to approximately 1,250 gallons per month or a total of 7,500 gallons; however a large portion of these solutions may be sent to the 706-A Semi-Works or to Argonne National Laboratory for a possible third cycle uranium recovery and decontamination. The UNH solutions not used elsewhere may be stored in W4.

At the end of the Redox investigations there is a good possibility that approximately 1000 gallons of 1.3M $Al(NO_3)_3$ solution, containing Pu, will be discharged from the Pilot Plant. This material will be the usual 25 recovery investigation waste. It will come from additional 25 process investigation, testing the process improvements that may arise during the next six months, and should be tried before the irradiated 25 is processed through the Pilot Plant equipment for verification of the 1200 Area recovery and decontamination process.

J G Morgan 3-13-95

D. G. Reid

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