

TO : D. C. [REDACTED]  
FROM : S. H. Brown  
SUBJECT: WEEKLY REPORT FOR WEEK ENDING MARCH 28, 1951

3/20/51  
EX-20 - MCO HISTORY NY 00  
FOLDER: WEEKLY & MONTHLY (PROC)  
REPORTS - ENG & BOND  
1951

TX. 9

TX 04-3

Scrap Recovery

Kellex was requested to expand their investigation of possible means for recovering uranium from low-grade wastes and residues to include all residues containing above about 0.1% U. Samples were collected from the LOOW and Haist sites for this research

Arrangements have been made to make feasibility tests on the air classification of C-Liner materials at Sutton, Steele and Steele, Inc., Dallas, Texas, starting April 9, 1951. It is hoped that this technique will permit re-use of the fused dolomitic portions of the liner.

Solvent Evaluation

The pulse column tests at ORNL on scrubbing 15% TBP extracts from the pilot plant were very successful from the physical operating standpoint. No chemical data are available yet.

Pilot plant testing of a 15% TBP-85% kerosene extractant commenced. For a 15% TBP system, higher through-puts and aqueous/organic ratios can be employed than with a 30% TBP system. "Shotguns" on the first two runs with a Slurex feed, unfiltered pitchblende, were  $0.02 \pm 0.01$  and  $0.01 \pm 0.01$ , indicating that satisfactory purity can be obtained with this system in one cycle.

Classification Cancelled

~~Or Changed To~~  
By Authority Of CG-PR-2  
By P. S. Brown Date 5-16-84

~~SECRET~~

Residue Handling

Spray calcining tests on plant raffinates at the Swenson Evaporator Company had to be cancelled. Their fume scrubbers were inadequate for the removal of the nitric oxides from the exhaust gases. The company laboratory, located in a residential area, could not assume the risks of releasing to the atmosphere the quantity of nitric oxides involved.

Other companies are being contacted for the testing of this method of drying raffinate and concurrently recovering their nitrate values.

\*Underlined portions to be included in report to Washington.

CC: F. M. Belmore

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