

MO.1-3

Box 15
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MO.1

B. W. Bistyga, Division of Raw Materials
Washington

June 15, 1956

F. R. Dowling, Director, Feed Materials Division
Oak Ridge Operations Office

PITCHBLEND E AM-7 RAFFINATE AT ST. LOUIS AIRPORT

SYMBOL: OF:CES

This will confirm information which was transmitted in a telephone conversation between Mr. Bistyga and G. E. Strahl on May 29, 1956, giving an estimate of the total quantity of AM-7 pitchblende raffinate in storage at the St. Louis airport.

The wet gross weight of the material is estimated to be 146,685,419 pounds and is based upon analyses of the materials which were being transferred to the airport for storage during the period when Q-11 ores were being processed by the Mallinckrodt Chemical Works. On the basis of typical moisture analyses taken on these materials at the time of shipment to the airport, it is estimated that this raffinate contains 60 to 65% moisture on drying to 110° C.

The estimated metallic content in this raffinate has been based upon analyses which were determined from auger sampling at various locations on the storage pile in June of 1953. Using these data as representative for the weight of AM-7 stored through October of 1955, and estimating that the amount of raffinate has been increased by a factor of 1.13 since June, 1953, it has been determined that the following materials have been dumped in the AM-7 pile through October, 1955:

<u>Element</u>	<u>Pounds</u>
Uranium	225,671
Cobalt	1,755,000
Nickel	2,085,000
Copper	1,098,000

The above data are believed to be the best estimates that can be obtained for the raffinate produced during the period from May, 1945, when Q-11 refinery feed was being consumed in the Mallinckrodt refinery, until Q-11

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operations were terminated and all pitchblende materials were cleaned out of the MOW Plant. This data includes the AM-9 residues which have been returned to the airport after processing some of the AM-7 to AM-9 residues.

ORIGINAL SIGNED
BY F. R. DOWLING

F. R. Dowling

ex CC: M. H. Woodruff

OFFICE ▶	Feed Materials Division				
SURNAME ▶	<i>CS</i> Strahl, ss	<i>W. Woodruff</i> Reynich	Dowling		
DATE ▶	6/5/56	6/6/56	6/18/56		