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SECURITY INFORMATION
DATE 3/13/52 UNIT Flu

Contract No. 52-3-40

Released through the
MOUND LSDR PROJECT
(funded through DOE's OPENNESS INITIATIVE)
Record Copy held at Mound Facility

March 13, 1952

Mr. E. A. Walker
Assistant Area Manager
Dayton Area
United States Atomic Energy Commission
Mound Laboratory
Miamisburg, Ohio

Dear Mr. Walker:

To obtain 10 to 12 curies of actinium per month with our present radium supply and processing facilities, it will be necessary to irradiate the 60 grams of radium in the MTR at a flux ten times that of the Hanford piles. The 60 grams of radium will be divided into three batches of 20 grams each. Each 20-gram batch will be divided into four 5-gram portions, each 5-gram portion of which will be placed in a separate slug for irradiation. To meet the schedule for actinium production it will be necessary to put the first four slugs (20 grams) of radium into the MTR November 1, 1952. These slugs will be irradiated for eight months. On March 1, 1953 a second batch of four slugs will be placed in the pile and on July 1, 1953, the third batch of four slugs will go into the MTR. Also when the third batch goes in the pile, the first batch will be removed and returned to Mound for processing. Four months later this first batch will go back into the pile and batch #2 will be removed. We would have to continue this irradiation schedule of eight months in the pile and four months out as long as 10 to 12 curies of actinium per month is desired.

MOUND DECLASSIFICATION REVIEW	
1. REVIEW DATE: 5/11/97	3. AUTHORITY: AOC EADC OADR
2. CLASSIFICATION RETAINED: <i>None</i>	4. REVIEW DATE: 2/15/98
5. CONTAINS NO FOR CLASSIFIED INFO	6. AUTHORITY: <i>None</i>
7. COORDINATE WITH: <i>None</i>	8. CLASSIFICATION CANCELLED
9. CLASSIFIED INFO RECLASSIFIED	10. REVIEWER: <i>None</i>

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~~SECRET~~

The radium would be in the form of the carbonate or bromide.

Sincerely,

F. C. Mead, Jr.

FCM:pm

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