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DOCUMENT NO.

HW-3525

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DATE 2/12/52 COPY NO. SERIES

FILE DESIGNATION

SUBJECT OR TITLE  
REASON SHEET - CONSOLIDATION OF

REDUCTION AND CASTING

TO File

FROM R. B. Richards

RESTRICTED DATA

[REDACTED]

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FINAL DETERMINATION  
DECLASSIFICATION CONFIRMED

BY J.W. Jordan DATE 5/14/81  
BY J.P. Derouin DATE 5/23/81  
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M. Eick 5-5-99

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EW-23525

- 1. CH Greager (1)
- 2. ES Bell (3)
- 3. WM Harty (1)
- 4. RB Richards
- 5. WO Switzer

February 12, 1952

HANFORD WORKS  
REASON SHEET

This Document consists of  
Pages           

AREA... 200 W... BLDG. 234-5... W.O. NO. .... DATE ISSUED. ....

SUBJECT... Consolidation of Reduction and Casting .....

EST. COST... \$10,000 ..... REQUESTED COMPLETION DATE. ....

EST. ANNUAL SAVINGS.....

PRESENT FACILITIES AND TO WHAT EXTENT THEY ARE INADEQUATE:

Reduction of fluoride to metal and casting of the metal to a desired approximate shape, although performed in similar equipment, are now carried out as two distinctly different steps in the RG Line. The same procedure is to be carried out in the RH Line. Each of these steps requires considerable equipment and operator time as well as taking considerable operator time between the steps. From each a certain amount of product is recycled to recovery operations. It is not intrinsically necessary that the metal be available between the reduction step and the casting operation.

DESCRIPTION OF PROPOSED WORK:

It is proposed to develop the technique and equipment for carrying out the reduction of the fluoride and casting to the approximate shape in a single operation.

ADVANTAGES TO BE GAINED AND JUSTIFICATION FOR PROPOSED WORK:

If reduction and casting are carried out as a single step there will be a considerable saving of operator time; there will also be a requirement for only about half of the equipment now used for these operations which will represent a savings of costs of materials and maintenance. The amount of product that will have to be recycled to recovery operations will be considerably less than with operation in two separate steps.

SUGGESTED CONTACTS AND REFERENCES (INCLUDE PHONE NOS.):

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R. B. Richards, Manager  
Separations Technology Unit

ISSUED BY R.B. Richards PHONE 3356

APPROVED BY \_\_\_\_\_ PHONE \_\_\_\_\_

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