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**Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**



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HW-23804

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March 14, 1952

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To: File

From: W. N. Moore
V. R. Cooper

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AUTHORIZATION FOR PROCESS CHANGE -234-5 BUILDING

Ref: Document HW-23203

Proposed
Specification:

Approval is requested to incorporate the plus 4 oxalate precipitation in Task I of the 234-5 Building as standard procedure.

Present
Specification:

The present specification for the Part 1 operation of the 234-5 Building calls for plus 3 oxalate precipitation.

Reason for
Change:

Production Test 234-No. 5, evaluating the plutonium IV oxalate procedure has been completed with respect to application to material derived from "B" and "T" Plants and processed through two peroxide cycles in the 231 Building (Isolation) prior to processing via plutonium IV oxalate in Task I of the RG Line. The evaluation of material derived from the 202 S Building (Redox) has not been completed due to lack of material from the Redox Plant. The results of the tests were reviewed by the Separations Process Committee on March 12, 1952 and it was recommended that the plutonium IV oxalate procedure be accepted as an approved process specification for operation on both B and T Plant material and Redox material. The proposed process will eliminate the use of hydriodic acid with the attendant corrosion problems. This will result in considerable monetary savings from a repair and replacement standpoint as well as insure the continuity of operations. Formal test results of this test will be issued in the near future.

**SPECIAL RE-REVIEW
FINAL DETERMINATION
DECLASSIFICATION CONFIRMED**

BY W. Jordan DATE 5-15-81
BY J. P. Perswin DATE 5-22-81

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By Authority of per doc 5-1973

By J. H. Wells-11-19-94

Verified By J. E. Savely 11-22-94

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HW-23804
March 14, 1952

APPROVALS

234-5 Process Discussion Committee

T. Prudich Separations Section -
Manufacturing Department

3/18/52 Date

V. R. Cooper Separations Technology Unit -
Engineering Department

3/18/52 Date

200 Areas Process Committee

W. N. Mobley Separations Section -
Manufacturing Department

3/14/52 Date

R. B. Richards Separations Technology Unit -
Engineering Department

3/19/52 Date

V. R. Chapman Separations Section -
Manufacturing Department

3/18/52 Date

Management

O. H. Greager Technical Section -
Engineering Department

3/21/52 Date

C. N. Gross Manufacturing Department

3-21-52 Date

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