
**Cover Sheet for a Hanford
Historical Document
Released for Public Availability**

Released 1995

**Prepared for the U.S. Department of Energy
under Contract DE-AC06-76RLO 1830**

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



DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, make any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

DECLASSIFIED RECORD CENTER FILE

HW-26515

1. C.N. Gross - T.W. Hauff
2. R.S. Bell - V.R. Chapman
3. T. Prudich - L.M. Meeke-
4. W.N. Mobley - O.F. Beaulieu
5. D. McDonald
6. O.H. Greager - W.K. Woods
7. V.R. Cooper - R.W. Benoliel
8. P.E. Collins - W.B. Kerr
9. R.B. Richards - J.B. Work
10. W.K. MacCready
11. 700 File
12. 300 File
13. Yellow File

December 9, 1952

This document consists of
2 pages, No. 3 of
copies. Series A.

COPY 1 OF 1.

To: File

From: P.E. Collins - Leader
234-5 Building - Process Assistance
Reparations Technology Unit
Technical Section
by W.B. Kerr - Engineer

AUTHORIZATION FOR CHANGE IN PROCESS

234-5 BUILDING

ARGON PURGING OF REDUCTION EQUIPMENT

Classified by CG-PR-2

DECLASSIFIED
DECLASSIFIED

By Authority of CG-PR-2

D. J. Lewis 5-4-92

By JH Wells 11-19-94

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

RECEIVED

300 AREA
CLASSIFIED FILES

DECLASSIFIED

MASTER

TS

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

Present Procedure

The present procedure for replacing air in the Task III reduction equipment with an inert atmosphere includes three successive evacuation and argon introduction cycles.

Revised Procedures

A new procedure is authorized by approval signatures to this document which permits the formation of an inert atmosphere within the reduction equipment by introducing argon to a pressure of 100 psig, then releasing the gas to atmospheric pressure. In addition, the number of purge cycles required for either vacuum or pressure procedure is changed from three to "one or more".

Basis For Procedure Change

Production Test 235-8 (HW-25362), which was written to evaluate the argon pressure procedure for air purging in production equipment, has been completed. The slag and metal buttons produced using this procedure were comparable to the slag and metal produced by the vacuum procedure.

Adoption of this procedure will permit equipment simplification by eliminating the vacuum pump, vacuum instrumentation, and some valves in the Task III, RMA Line. This simplification will result in savings in operator's time and maintenance costs without introduction of radiation or physical hazards.

DECLASSIFIED

DECLASSIFIED

HW-26515

-3-

Approvals

V.R. Cooper Program Head - Process Assistance 12/19/52 Date
V.R. Cooper Separations Technology Unit

R.B. Richards Manager 12/19/52 Date
R.B. Richards Separations Technology Unit

O.H. Greager Manager 12/23/52 Date
O.H. Greager Technical Section
Engineering Department

C.N. Gross Manager 1-5-53 Date
C. N. Gross Manufacturing Department

Date issued 1-6-53