

HW-13448-DEL

HW-13448-DEL

DECLASSIFIED
WITH DELETIONS

DECLASSIFIED WITH DELETIONS	
1st REVIEW DATE	10/15/97
AUTHORITY	AUCOR/ADC ADD ADC (ADD)
NAME	J. D. WATROS
ORG:	PNNL APP
2nd REVIEW DATE	10/15/97
NAME:	Ronald Brown
ORG:	PNNL ADD

- Ph
#1 - AB Graninger - 700
#2 - WK Woods
#3 - JCL Chatten
#4 - AA Johnson
#5 - 300 File
#6 - Pink Copy
#7 - Yellow Copy

APPROVED FOR
PUBLIC RELEASE

RLO-CG-5, REV 1 (E.O. UP)

May 20, 1949 RECORD CENT COPY

Ronald Brown
10/15/97

P-10 DISCUSSION AT LOS ALAMOS

This document consists of
3 pages No. of
copies Series

This memorandum summarizes some of the items discussed at a meeting on tritium production with Los Alamos and Argonne representatives at Los Alamos on May 7, 1949. Paul Holsted (Hanford A.E.C) was also present.

The status of the alloy process was reviewed and it was pointed out that if the results obtained so far on yields on purity are representative, it will be possible to produce tritium at several times the rate originally estimated provided the present reactivity assignments are maintained.

Manley and Froman of Los Alamos stated that their original request for tritium has not been altered and that they saw no reason for altering it at this time. This does not agree entirely with our information from the A.E.C. Froman agreed to write a letter to the A.E.C. confirming his statement at the meeting. It may be possible in a few months to assign some (5-10%) of the reactivity now assigned to P-10 to other urgent requests. At present, about 900 inhours are assigned to P-10 and 50 inhours are assigned to all other special requests.

It is apparent that the tritium program is considered to be quite a gamble and I therefore raised the question of the desirability of an all-out continuation of tritium production from the time the original request is filled until Los Alamos has demonstrated whether or not Tritium is useful. As much as a year may elapse and during this time a considerable stockpile of tritium could be accumulated. Although no one had given this question much consideration, it appears that a continuation of production on a moderate scale could be justified on the basis of providing a margin of safety. It is possible that the sample may be lost in the test or that a second test may be necessary.

Los Alamos has enough tritium for the experimental work now planned. We will therefore not make any shipments until alloy slug extraction has been underway for about two months. The shipping container we intend to use was considered to be satisfactory.

BEST AVAILABLE COPY

~~DECLASSIFIED WITH DELETIONS~~

DECLASSIFIED
WITH DELETIONS

RECEIVED

MAY 28 1956

300 AREA
CLASSIFIED FILES

DECLASSIFIED**WITH DELETIONS**

File

- 2 -

May 20, 1949



Both Los Alamos and Argonne plan to continue work on the development of a purification process although it now appears that tritium of acceptable purity can be produced with alloy slugs.

It was generally agreed that further work is necessary on methods for purity determination. Los Alamos will check Argonne's results on recent high purity samples. Argonne will attempt to develop a density balance that can be attached to the extraction line. After extraction of alloy slugs is underway at Hanford samples will be sent to Los Alamos and Argonne to check our purity analyses.

It was felt that another meeting of Los Alamos, Argonne and Hanford should be held after production is underway at Hanford.

AA Johnson/s

A. C. Johnson
File Technology Division

DECLASSIFIED
WITH DELETIONS