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July 15, 1960

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Colonel George A. Key, USAF
Assistant Chief of Staff
Defense Atomic Support Agency
Department of Defense
Washington 25, D. C.

Dear Colonel Key:

Reference is made to letter, WASHA-3 922.10, of June 29, 1960, requesting the latest data available by shot for ^{235}U and ^{239}Pu production during HARDTACK I.

These data are given in the attached tables. No changes in these values have been made within the past year. The activity of ^{239}Pu is based on particular decay schemes assumed by the investigators. Drs. Martell and Kalkstein of AFPCG have used a ^{239}Pu production in Orange shot of "about 3 megacuries".

Sincerely yours,

Alfred D. Starbird
Brigadier General, USA
Director of Military Application

Attachments:

1. Gy 1A of HARDTACK I - LALB Table
2. Gy 1A of HARDTACK I - LRL Table

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORITY BY <i>Versigalli 3/31/94</i>	DETERMINATION (CIRCLE NUMBER(S))
REVIEWER (ADP): <i>APC/omidh</i>	1. CLASSIFICATION RETAINED
NAME: <i>APC/omidh</i>	2. CLASSIFICATION CHANGED TO:
DATE: <i>4/1/90</i>	3. CONTAINS NO DOE CLASSIFIED INFO
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Enclosure (3)

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U-185 AND Rh¹⁰² PRODUCTION IN HARDENCK I. LAST SHOTS

<u>Shot</u>	<u>Rh¹⁰²</u> <u>(Area X10⁻¹⁵)</u>	<u>Shot</u>	<u>U-185</u> <u>(Area X10⁻²³)</u>
Cactus	16.9	Yellowwood	78.75 (81.8)
Maple	25.6	Roan	0.25 (0.246)
Walnut	14.7	Total	79.0
Yellowwood	2.96		
Oak	41.9		
Piscata	3.64		
Butternut	5.00		
Elder	8.41		

Total No. Atoms Rh¹⁰² in above shots^{**}: 2.668×10^{23}

Total Atoms Produced in Orange Shot^{***}: about 2.8×10^{24}

- * At shot time, activities given are beta and positron dpm.
- ** Using the LRL decay scheme for Rh¹⁰², 71% electron capture and 29% positron and beta emission.
- *** The total is the latest reported value. Values in parentheses were reported previously.

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W-105 AND W-102 FURNITURE IN MESSHALL 1, 125 BLDG

Shot	W-102 (Area 110-20)	W-105 (Area 110-21)
Fir	200	200
Gynocore	0.013	14.5
Maple	9.1	0.002
Aspen	37	1.04
Redwood	61	1.10
Hickory	20	.
Cedar	76	90.
Begonia	22	.
Poplar	200	200
Juniper	1.0	.
Olive	28	.
Pine	10	430

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