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DATE

October 14, 1966

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RICHLAND, WASHINGTON

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TITLE AND AUTHOR

COMPOSITION OF ENDING INVENTORYSEPTEMBER 1966

R. O. Budd

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October 14, 1966

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H. R. Freitag, Chief
Nuclear Materials Management Branch
U. S. Atomic Energy Commission
Richland Operations Office
Richland, Washington

Dear Mr. Freitag:

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DECLASSIFIED

By Authority of WA Snyder

PR-24, 2-17-94

By J E Savely 2-22-94

Verified By Jerry Mally
3-5-94

COMPOSITION OF ENDING INVENTORY

Submitted herewith are Source and Special Nuclear Material Composition
of Ending Inventory Reports for the month of September, 1966.

Yours very truly,

ORIGINAL SIGNED BY

R. O. Budd

Manager

Nuclear Materials Management Section
ENVIRONMENTAL HEALTH AND
ENGINEERING DEPARTMENT

RO Budd:fo

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NAD25513P

PACIFIC N W LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

9/66

NORMAL URANIUM
COMPOSITION OF ENDING INVENTORY
SEPTEMBER 30 1966
KILOGRAM
MATERIAL TYPE CODE 81BNWL-CC-474 9
Hanford Code C-44a

LINE		URANIUM	U-235	0/0E-1 NO1	0/0E-1 NO2
100	NONPRODUCTION REACTORS AND R/D				
105	INVENTORY BY STATUS OF MATERIAL				
120	USEABLE-STORED FOR DEFINITE USE	49 362.84	350.97	0.711	
130	IN CONVERSION/FABRICATION PROC	175.54	1.25	0.712	
140	IN REACTORS/CRITICAL ASSEMBLIES	248.11	1.76	0.709	
150	IN MISCELLANEOUS R/D	313.88	2.23	0.710	
170	UNIRRAD SCRAP STORED FOR RECOV	1 006.52	7.16	0.711	
190	TOTAL-NONPROD REACTORS AND R/D	<u>51 106.89</u>	<u>363.37</u>	<u>0.711</u>	
200	REPRODUCIBLE REACTORS				
250	REPRODUCIBLE REACTORS				
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>51 106.89</u>			

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PACIFIC N W LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

9/66

DEPLETED URANIUM
COMPOSITION OF ENDING INVENTORY
SEPTEMBER 30 1966
KILOGRAMBNWL-CC-474 9
Hanford Code C-44a

LINE		URANIUM	U-235	0/0E-1 NO1	0/0E-1 NO2	Type Code
100	NONPRODUCTION REACTORS AND R/D					
105	INVENTORY BY STATUS OF MATERIAL					
120	USEABLE-STORED FOR DEFINITE USE	21 677.52	44.99	0.207		12
150	IN MISCELLANEOUS R/D	1.36	NEGL			-
170	UNIRRAD SCRAP STORED FOR RECOV	226.80	.50	0.220		12
180	IRRADIATED MATERIAL IN STORAGE	5 331.50	30.06	0.563		17
190	TOTAL-NONPROD REACTORS AND R/D	<u>27 237.18</u>	<u>75.55</u>	0.277		
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>27 237.18</u>	<u>75.55</u>			

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PACIFIC N W LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

9/66

ENRICHED URANIUM

COMPOSITION OF ENDING INVENTORY
SEPTEMBER 30 1966BNWL-CC-474 9
Hanford Code C-44a

GRAM

LINE	URANIUM	U-235	0/0E-1 ND1	Material Type Code	0/0E-1 ND2
100	NONPRODUCTION REACTORS AND R/D				
105	INVENTORY BY STATUS OF MATERIAL				
120	USEABLE-STORED FOR DEFINITE USE				
140	IN REACTORS/CRITICAL ASSEMBLIES	18 909 902.03	508 136.64	2 687	26
150	IN MISCELLANEOUS R/D	8 439 818.30	99 699.60	1 181	23
170	UNIRRAD SCRAP STORED FOR RECOV	658.32	114.22	17 350	33
180	IRRADIATED MATERIAL IN STORAGE	8 767 995.77	67 767.63	1 000	22
190	TOTAL-NONPROD REACTORS AND R/D	223 668.00	2 759.12	1 233	23
		36 342 042.42	698 477.21	1 921	

477 GRAND TOTAL - U. S. Atomic Energy Commission

36 342 042.42

698 477.21

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PLUTONIUM
COMPOSITION OF ENDING INVENTORY
SEPTEMBER 30 1966
GRAMBNWL-CC-474 9
Hanford Code C-44a

LINE	PLUTONIUM	0/0E-1 N01	0/0E-1 N02	
		Material Type Code		
		51	52	53
100	NONPRODUCTION REACTORS AND R/D			
105	INVENTORY BY STATUS OF MATERIAL			
120	USEABLE-STORED FOR DEFINITE USE	293 915.00	244 588	34 628
130	IN CONVERSION/FABRICATION PROC	209 790.00	128 315	79 981
140	IN REACTORS/CRITICAL ASSEMBLIES	1 052.00	966	86
150	IN MISCELLANEOUS R/D	15 520.00	15 520	
170	UNIRRAD SCRAP STORED FOR RECOV	50 084.00	49 424	660
180	IRRADIATED MATERIAL IN STORAGE	40 979.00	1 454	39 525
190	TOTAL-NONPROD REACTORS AND R/D	611 340.00	440 267	154 880
477	GRAND TOTAL - U. S. Atomic Energy Commission	611 340.00	440 267	154 880
				16 193

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THORIUM
COMPOSITION OF ENDING INVENTORY
SEPTEMBER 30 1966BNWL-CC-474 9
Hanford Code C-44a

KILOGRAM

MATERIAL TYPE CODE 88

LINE	THORIUM	0/0E-1 N01	0/0E-1 N02
100	NONPRODUCTION REACTORS AND R/D		
105	INVENTORY BY STATUS OF MATERIAL		
120	USEABLE-STORED FOR DEFINITE USE	4 925.53	
130	IN CONVERSION/FABRICATION PROC	139.71	
150	IN MISCELLANEOUS R/D	.45	
170	UNIRRAD SCRAP STORED FOR RECOV	218.63	
180	IRRADIATED MATERIAL IN STORAGE	23.59	
190	TOTAL-NONPROD REACTORS AND R/D	<u>5 307.91</u>	
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>5 307.91</u>	

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PACIFIC NW LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

9/66

U-233

COMPOSITION OF ENDING INVENTORY

SEPTEMBER 30, 1966

GRAM

HWL-CC-474 9

Sanford Code C-44a

MATERIAL TYPE CODE 73

LINE

URANIUM

U-233

0/0E-1 NO1

0/0E-1 NO2

100 NONPRODUCTION REACTORS AND R/D
 105 INVENTORY BY STATUS OF MATERIAL
 120 USEABLE-STORED FOR DEFINITE USE
 180 IRRADIATED MATERIAL IN STORAGE
 190 TOTAL-NONPROD REACTORS AND R/D
 477 GRAND TOTAL - U. S. Atomic Energy Commission

329.00 316.29 96.136
 33.00 33.00 100.000
 362.00 349.29 96.488
 362.00

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PACIFIC N W LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

9/66

TRITIUM
COMPOSITION OF ENDING INVENTORY
SEPTEMBER 30 1966
GRAM
MATERIAL TYPE CODE 87BNWL-CC-474 9
Hanford Code C-44a

LINE	TRITIUM	0/0E-1 NO1	0/0E-1 NO2
100	NONPRODUCTION REACTORS AND R/D		
105	INVENTORY BY STATUS OF MATERIAL		
120	USEABLE-STORED FOR DEFINITE USE	1.16	
190	TOTAL-NONPROD REACTORS AND R/D	<u>1.16</u>	
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>1.16</u>	

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PACIFIC N W LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

9/66

DEUTERIUM
COMPOSITION OF ENDING INVENTORY
SEPTEMBER 30 1966
KILOGRAMBNWL-CC-474 9
Hanford Code C-44a

MATERIAL TYPE CODE 86

LINE		HEAVY WATER	DEUTERIUM	0/0E-1 NO1	0/0E-1 NO2
100	NONPRODUCTION REACTORS AND R/D				
105	INVENTORY BY STATUS OF MATERIAL				
120	USEABLE-STORED FOR DEFINITE USE	45 816.22	9 209.07	20.100	
140	IN REACTORS/CRITICAL ASSEMBLIES	95.25	19.15	20.104	
170	UNIRRAD SCRAP STORED FOR RECOV	2 954.23	593.80	20.099	
190	TOTAL-NONPROD REACTORS AND R/D	<u>48 865.70</u>	<u>9 822.02</u>	20.100	
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>48 865.70</u>	<u>9 822.02</u>		

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ENRICHED LITHIUM
COMPOSITION OF ENDING INVENTORY
SEPTEMBER 30 1966
KILOGRAM
MATERIAL TYPE CODE 63BNWL-CC-474 9
Hanford Code C-44a

LINE		LITHIUM	LI-6	0/0E-1 NO1	0/0E-1 NO2
100	NONPRODUCTION REACTORS AND R/D				
105	INVENTORY BY STATUS OF MATERIAL				
120	USEABLE-STORED FOR DEFINITE USE	.59	.56	94.915	
190	TOTAL-NONPROD REACTORS AND R/D	<u>.59</u>	<u>.56</u>	94.915	
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>.59</u>	<u>.56</u>		

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PACIFIC N W LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

9/66

NEPTUNIUM-237
COMPOSITION OF ENDING INVENTORY
SEPTEMBER 30 1966BNWL-CC-474 9
Hanford Code C-44a

GRAM

MATERIAL TYPE CODE 82

LINE	NEPTUNIUM-237	0/0E-1 N01	0/0E-1 N02
100	NONPRODUCTION REACTORS AND R/D		
105	INVENTORY BY STATUS OF MATERIAL		
120	USEABLE-STOED FOR DEFINITE USE	919.20	
130	IN CONVERSION/FABRICATION PROC	128.46	
150	IN MISCELLANEOUS R/D	14.30	
170	UNIRRAD SCRAP STORED FOR RECOV	107.74	
180	IRRADIATED MATERIAL IN STORAGE	45.01	
190	TOTAL-NONPROD REACTORS AND R/D	1 214.71	
477	GRAND TOTAL - U. S. Atomic Energy Commission	1 214.71	

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PACIFIC N W LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

9/66

PLUTONIUM-238
COMPOSITION OF ENDING INVENTORY
SEPTEMBER 30 1966BNWL-CC-474 9
Hanford Code C-44a

GRAM

MATERIAL TYPE CODE 83

LINE	PLUTONIUM	PU-238	0/0E-1 N01 Per Cent Enrichment	0/0E-1 N02
100	NONPRODUCTION REACTORS AND R/D			
105	INVENTORY BY STATUS OF MATERIAL			
120	USEABLE-STORED FOR DEFINITE USE			
150	IN MISCELLANEOUS R/D	5 345.59	996.59	18.643
190	TOTAL-NONPROD REACTORS AND R/D	<u>5 346.05</u>	<u>996.96</u>	18.648
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>5 346.05</u>	<u>996.96</u>	

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