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DATE

September 16, 1966

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BATTELLE-NORTHWEST

RICHLAND, WASHINGTON

ISSUING OFFICE

TITLE AND AUTHOR

COMPOSITION OF ENDING INVENTORY

AUGUST 1966

R. O. Budd

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September 16, 1966

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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By Authority of W.A. Snyder

PR-24 2-17-94

By J. E. Savely 2-22-94

Verified By John M. Mullen
3-5-94

COMPOSITION OF ENDING INVENTORY

Submitted herewith are Source and Special Nuclear Material Composition of Ending Inventory Reports for the month of August, 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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MAD25513P

PACIFIC N W LABS NUCLEAR MATERIALS ACCOUNTING, REPORT NO 3

8/66

NORMAL URANIUM
COMPOSITION OF ENDING INVENTORY
AUGUST 31 1966
KILOGRAM
MATERIAL TYPE CODE 81BNWL-CC-474 8
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	48 766.82	346.73	0.710
130	IN CONVERSION/FABRICATION PROC	175.54	1.25	0.712
140	IN REACTORS/CRITICAL ASSEMBLIES	294.38	2.09	0.709
150	IN MISCELLANEOUS R/D	315.70	2.24	0.709
170	UNIRRAD SCRAP STORED FOR RECOV	1 007.42	7.16	0.710
190	TOTAL-NONPROD REACTORS AND R/D	50 559.86	359.47	0.710
200	PRODUCTION MATERIALS			
250	WASTE IN PROCESS			
477	GRAND TOTAL - U. S. Atomic Energy Commission	50 559.86		

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PACIFIC NW LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

8/66

DEPLETED URANIUM
COMPOSITION OF ENDING INVENTORY
AUGUST 31 1966
KILOGRAMBNWL-CC-474 8
Hanford Code C-44a

LINE		URANIUM	U-235	0/0E-1 NO1	Type Code	0/0E-1 NO2
100	NONPRODUCTION REACTORS AND R/D					
105	INVENTORY BY STATUS OF MATERIAL					
120	USEABLE-STORED FOR DEFINITE USE	21 663.00	44.92	0.207	12	
150	IN MISCELLANEOUS R/D	6.35	.01	0.157	11	
170	UNIRRAD SCRAP STORED FOR RECOV	226.80	.50	0.220	12	
180	IRRADIATED MATERIAL IN STORAGE	5 322.8A	30.04	0.564	11	
190	TOTAL-NONPROD REACTORS AND R/D	<u>27 219.03</u>	<u>75.47</u>	0.277		
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>27 219.03</u>	<u>75.47</u>			

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PACIFIC NW LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

8/66

ENRICHED URANIUM
COMPOSITION OF ENDING INVENTORY
AUGUST 31 1966
GRAM

BNWL-CC-474 8
Hanford Code C-44a

LINE		URANIUM	U-235	0/0E-1 NO1	0/0E-1 NO2	Material Type Code
100	NONPRODUCTION REACTORS AND R/D					
105	INVENTORY BY STATUS OF MATERIAL					
120	USEABLE-STORED FOR DEFINITE USE	18 857 980.00	492 870.00	2.623		26
140	IN REACTORS/CRITICAL ASSEMBLIES	8 454 236.30	113 135.12	1.338		23
150	IN MISCELLANEOUS R/D	658.32	114.22	17.350		33
170	UNIRRAD SCRAP STORED FOR RECOV	8 923 803.93	90 604.16	1.015		22
180	IRRADIATED MATERIAL IN STORAGE	233 432.00	2 908.79	1.246		23
190	TOTAL-NONPROD REACTORS AND R/D	<u>36 470 110.55</u>	<u>699 632.29</u>	1.916		
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>36 470 110.55</u>	<u>699 632.29</u>			

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PLUTONIUM
COMPOSITION OF ENDING INVENTORY
AUGUST 31 1966
GRAM

BNWL-CC-474 8
Hanford Code C-44a

LINE	PLUTONIUM	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	278 693.00	236 851
130	IN CONVERSION/FABRICATION PROC	180 208.00	97 888
140	IN REACTORS/CRITICAL ASSEMBLIES	3 827.00	3 741
150	IN MISCELLANEOUS R/D	69 069.00	69 069
170	UNIRRAD SCRAP STORED FOR RECOV	38 917.00	38 257
180	IRRADIATED MATERIAL IN STORAGE	40 905.00	1 449
190	TOTAL-NONPROD REACTORS AND R/D	611 619.00	447 255
477	GRAND TOTAL - U. S. Atomic Energy Commission	611 619.00	447 255

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PACIFIC NW LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

8/66

THORIUM
COMPOSITION OF ENDING INVENTORY
AUGUST 31 1966
KILOGRAM
MATERIAL TYPE CODE 88BNWL-CC-474 8
Hanford Code C-44a

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	19.05	
190	TOTAL-NONPROD REACTORS AND R/D	<u>5 303.37</u>	
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>5 303.37</u>	

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PACIFIC NW LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

8/66

U-233
COMPOSITION OF ENDING INVENTORY
AUGUST 31 1966
GRAM
MATERIAL TYPE CODE 73

BNWL-CC-474 8
Hanford Code C-44a

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	16 422.00	16 124.44	98.188
180	IRRADIATED MATERIAL IN STORAGE	23.00	23.00	100.000
190	TOTAL-NONPROD REACTORS AND R/D	<u>16 445.00</u>	16 147.44	98.190
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>16 445.00</u>		

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PACIFIC NW LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

8/66

TRITIUM
COMPOSITION OF ENDING INVENTORY
AUGUST 31 1966
GRAM
MATERIAL TYPE CODE 87

BNWL-CC-474 8
Hanford Code C-44a

LINE	TRITIUM	070E-1 NO1	070E-1 NO2
100	NONPRODUCTION REACTORS AND R/D		
105	INVENTORY BY STATUS OF MATERIAL		
150	IN MISCELLANEOUS R/D	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

8/66

DEUTERIUM
COMPOSITION OF ENDING INVENTORY
AUGUST 31 1966
KILOGRAM:
Material Type Code 86

BNWL-CC-474 8
Hanford Code C-44a

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	46 177.28	9 281.64	20.100	
140	IN REACTORS/CRITICAL ASSEMBLIES	95.25	19.15	20.104	
170	UNIRRAD SCRAP STORED FOR RECOV	2 553.26	513.20	20.099	
190	TOTAL-NONPROD REACTORS AND R/D	<u>48 825.79</u>	<u>9 813.99</u>	20.100	
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>48 825.79</u>	<u>9 813.99</u>		

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PACIFIC N.W. LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

8/66

ENRICHED LITHIUM
COMPOSITION OF ENDING INVENTORY
AUGUST 31 1966
KILOGRAM

BNWL-CC-474 8
Hanford Code C-44a

MATERIAL TYPE CODE 63

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 NW LABS

NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

8/66

NEPTUNIUM-237

COMPOSITION OF ENDING INVENTORY

AUGUST 31 1966

GRAM

Material Type Code 82

LINE

NEPTUNIUM-237

0/0E-1 N02

0/0E-1 N01

100 NONPRODUCTION REACTORS AND R/D
105 INVENTORY BY STATUS OF MATERIAL
120 USEABLE-STORED FOR DEFINITE USE
130 IN CONVERSION/FABRICATION PROC
150 IN MISCELLANEOUS R/D
170 UNIRRAD SCRAP STORED FOR RECOV
180 IRRADIATED MATERIAL IN STORAGE
190 TOTAL-NONPROD REACTORS AND R/D

68.57
33.46
14.30
958.37
48.48
1 123.10

477 GRAND TOTAL - U. S. Atomic Energy Commission

1 123.10

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PLUTONIUM-238
COMPOSITION OF ENDING INVENTORY
AUGUST 31 1966
GRAM
Hanford Code C-44a

Material Type Code 83		0/0E-1 NO1		0/0E-1 NO2	
PLUTONIUM		Per Cent		Enrichment	
100	NONPRODUCTION REACTORS AND R/D	1.51	1.22	80.794	
105	INVENTORY BY STATUS OF MATERIAL	7.12	6.32	88.764	
120	USEABLE-STORED FOR DEFINITE USE	8.63	7.54	87.369	
150	IN MISCELLANEOUS R/D				
190	TOTAL-NONPROD REACTORS AND R/D				

477 GRAND TOTAL - U. S. Atomic Energy Commission 8.63 7.54

DATE

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8/17/94

END