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TITLE AND AUTHOR

COMPOSITION OF ENDING INVENTORY

OCTOBER 1966

R. O. Budd

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November 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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By Authority of W.A. Snyder
PR-24 2-17-94

By J.E. Savely 2-22-94
Verified By Jerri Knealy
3-5-94

COMPOSITION OF ENDING INVENTORY

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

Yours very truly,

ORIGINAL SIGNED BY
F. J. ZELLEY

for Manager
Nuclear Materials Management Section
ENVIRONMENTAL HEALTH AND
ENGINEERING DEPARTMENT

RO Budd:fo

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DEPLETED URANIUM
COMPOSITION OF ENDING INVENTORY
OCTOBER 31 1966
KILOGRAMBNWL-CC-474 10
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	21 697.02	44.88	0.206		12
130	IN CONVERSION/FABRICATION PROC	175.54	.57	0.324		16
150	IN MISCELLANEOUS R/D	8.15	.02	0.245		13
170	UNIRRAD SCRAP STORED FOR RECOV	29.94	.06	0.200		12
180	IRRADIATED MATERIAL IN STORAGE	4 590.33	25.95	0.565		17
190	TOTAL-NONPROD REACTORS AND R/D	<u>26 500.99</u>	<u>71.48</u>	0.269		
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>26 500.99</u>	<u>71.48</u>			

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ENRICHED URANIUM
COMPOSITION OF ENDING INVENTORY
OCTOBER 31 1966
GRAMBNWL-CC-474 10
Hanford Code C-44a

LINE		URANIUM	U-235	O/OE-1 NO1	O/OE-1 NO2
100	NONPRODUCTION REACTORS AND R/D				
105	INVENTORY BY STATUS OF MATERIAL				
120	USEABLE-STORED FOR DEFINITE USE	12 118 771.20	385 026.52	3.177	28
130	IN CONVERSION/FABRICATION PROC	31 311.11	17 360.25	55.444	36
140	IN REACTORS/CRITICAL ASSEMBLIES	8 454 236.30	113 135.12	1.338	23
150	IN MISCELLANEOUS R/D	6 876 186.74	94 818.58	1.451	23
170	UNIRRAD SCRAP STORED FOR RECOV	8 810 358.71	88 512.47	1.004	22
180	IRRADIATED MATERIAL IN STORAGE	209 098.00	2 640.56	1.262	23
190	TOTAL-NONPROD REACTORS AND R/D	36 499 962.06	706 493.42	1.935	
477	GRAND TOTAL - U. S. Atomic Energy Commission	36 499 962.06	706 493.42		

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PLUTONIUM
COMPOSITION OF ENDING INVENTORY
OCTOBER 31 1966
GRAMBNWL-CC-474 10
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	272 100.00	222 448	46 063	3 589
130	IN CONVERSION/FABRICATION PROC	220 349.00	107 599	83 397	29 353
140	IN REACTORS/CRITICAL ASSEMBLIES	11 651.00	7 838	1 660	2 153
150	IN MISCELLANEOUS R/D	18 971.00	18 718		253
170	UNIRRAD SCRAP STORED FOR RECOV	48 239.00	48 239		
180	IRRADIATED MATERIAL IN STORAGE	37 784.00	1 554	36 230	
190	TOTAL-NONPROD REACTORS AND R/D	609 094.00	406 396	167 350	35 348
477	GRAND TOTAL - U. S. Atomic Energy Commission	609 094. 00	406 396	167 350	35 348

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PACIFIC N W LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

10/66

ENRICHED LITHIUM
COMPOSITION OF ENDING INVENTORY
OCTOBER 31 1966
KILOGRAM

BNWL-CC-474 10
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	.59	.56	94.915	
477	GRAND TOTAL - U. S. Atomic Energy Commission	.59	.56		

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PACIFIC N W LABS

NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

10/66

U-233

COMPOSITION OF ENDING INVENTORY

OCTOBER 31 1966

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BNWL-CC-474-10

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				
130 IN CONVERSION/FABRICATION PROC	9 139.00	8 958.66	94.688	
150 IN MISCELLANEOUS R/D	21.00	21.00	100.000	
170 UNIRRAD SCRAP STORED FOR RECOV	9.00	8.82	98.000	
180 IRRADIATED MATERIAL IN STORAGE	5.00	5.00	100.000	
190 TOTAL-NONPROD REACTORS AND R/D	34.00	34.00	100.000	
	9 208.00	9 027.48	95.211	

477 GRAND TOTAL - U. S. Atomic Energy Commission

9 208.00

9 027.48

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NORMAL URANIUM
COMPOSITION OF ENDING INVENTORY
OCTOBER 31 1966
KILOGRAM
MATERIAL TYPE CODE 81

BNWL-CC-474 IO
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	45 647.94	324.56	0.711	
130	IN CONVERSION/FABRICATION PROC	1 167.54	8.30	0.710	
140	IN REACTORS/CRITICAL ASSEMBLIES	1 403.41	9.98	0.711	
150	IN MISCELLANEOUS R/D	525.71	3.74	0.711	
170	UNIRRAD SCRAP STORED FOR RECOV	1 015.72	12.91	0.711	
190	TOTAL NONPROD REACTORS AND R/D	<u>50 560.32</u>	<u>359.49</u>	<u>0.711</u>	
200	PRODUCTION REACTORS				
210	IN REACTORS/CRITICAL ASSEMBLIES				
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>50 560.32</u>			

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NEPTUNIUM-237
COMPOSITION OF ENDING INVENTORY
OCTOBER 31 1966
GRAMBNWL-CC-474 10
Hanford Code C-44a

MATERIAL TYPE CODE 82

LINE	NEPTUNIUM-237	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	149.68	
130	IN CONVERSION/FABRICATION PROC	97.88	
150	IN MISCELLANEOUS R/D	1 588.30	
170	UNIRRAD SCRAP STORED FOR RECOV	7.70	
190	TOTAL-NONPROD REACTORS AND R/D	1 843.56	
477	GRAND TOTAL - U. S. Atomic Energy Commission	1 843.56	

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PLUTONIUM-238
COMPOSITION OF ENDING INVENTORY
OCTOBER 31 1966
GRAMBNWL-CC-474 10
Hanford Code C-44a

MATERIAL TYPE CODE 83

LINE		PLUTONIUM	PU-238	0/0E-1 N01 Per Cent Enrichment	0/0E-1 N02 Per Cent Enrichment
100	NONPRODUCTION REACTORS AND R/D				
105	INVENTORY BY STATUS OF MATERIAL				
120	USEABLE-STORED FOR DEFINITE USE	2.16	1.76	81.481	
130	IN CONVERSION/FABRICATION PROC	5 337.00	989.11	18.933	
150	IN MISCELLANEOUS R/D	99.34	94.98	95.611	
190	TOTAL*NONPROD REACTORS AND R/D	5 438.50	1 085.85	19.965	
477	GRAND TOTAL - U. S. Atomic Energy Commission	5 438.50	1 085.85		

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PACIFIC NW LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

10/66

DEUTERIUM
COMPOSITION OF ENDING INVENTORY
OCTOBER 31 1966
KILOGRAM
MATERIAL TYPE CODE 86BNWL-CC-474 10
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	45 906.48	9 227.22	20.100	
130	IN CONVERSION/FABRICATION PROC	4.99	1.00	20.040	
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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PACIFIC N W LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

10/66

TRITIUM
COMPOSITION OF ENDING INVENTORY
OCTOBER 31 1966
GRAMBNWL-CC-474 10
Hanford Code C-44a

MATERIAL TYPE CODE 87

LINE	TRITIUM	0/0E-1 N01	0/0E-1 N02
100	NONPRODUCTION REACTORS AND R/D		
105	INVENTORY BY STATUS OF MATERIAL		
150	IN MISCELLANEOUS R/D	0.74	
190	TOTAL NONPROD REACTORS AND R/D	<u>0.74</u>	
477	GRAND TOTAL - U. S. Atomic Energy Commission	<u>0.74</u>	

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PACIFIC N W LABS NUCLEAR MATERIALS ACCOUNTING REPORT NO 3

10/66

THORIUM
COMPOSITION OF ENDING INVENTORY
OCTOBER 31 1966
KILOGRAMBNWL-CC-474 10
Hanford Code C-44a

MATERIAL TYPE CODE 88

LINE	THORIUM	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	4 530.46	
130	IN CONVERSION/FABRICATION PROC	380.11	
150	IN MISCELLANEOUS R/D	18.60	
170	UNIRRAD SCRAP STORED FOR RECOV	335.66	
180	IRRADIATED MATERIAL IN STORAGE	24.95	
190	TOTAL NONPROD REACTORS AND R/D	5 289.78	

477 GRAND TOTAL - U. S. Atomic Energy Commission

5 289.78

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