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BATTELLE-NORTHWEST
RICHLAND, WASHINGTON

ISSUING FILE

TITLE AND AUTHOR

COMPOSITION OF ENDING INVENTORY

JUNE 1966

R. O. Budd

[X] REST[redacted] DATA

TH[redacted]UMENT C[redacted]S REST[redacted] DATA AS [redacted]NED [redacted]E ATO[redacted]ERGY A[redacted]954 ITS [redacted]TTAL [redacted]R THE D[redacted]URE O[redacted]NTENTS[redacted]ANNER TO AN UN[redacted]ORIZED PERSON IS PR[redacted]

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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:

COMPOSITION OF ENDING INVENTORY

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

Yours very truly,

ORIGINAL SIGNED BY
R. O. Budd
Manager
Nuclear Materials Management Section
ENVIRONMENTAL HEALTH AND
ENGINEERING DEPARTMENT

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NORMAL URANIUM
COMPOSITION OF ENDING INVENTORY

JUNE 1966

(Material Type Code 81)

Line	(In Kilograms)	Total
35	Production Processes and Products	
53	Intermediate Products	
69	In Production Research and Devel	29 291
75	Total Prod Proc and Prod	29 291
76	Weapons Processes and Products	
89	In Weapons Research and Develop	
90	General	29
92	Total in Weapons Res/Devel	29
103	Total Weap Proc and Prod	29
126	Total	29 320
400	NONPRODUCTION REACTORS AND R & D	
405	Inventory By Status of Material	
420	Usable, Stored for Definite Use	20 971
490	Total - Nonproduction Reactors and R & D	20 971
	Total Normal Uranium	50 291

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DEPLETED URANIUM
COMPOSITION OF ENDING INVENTORY

JUNE 1966

Line	(In Kilograms)	Total U	Total U-235	Type Code
1	Feed Material			
2	Preliminary to Processing			
4.1	In Cooling Basins	204	1	16
5	Total Preliminary to Proc	204	1	
10	Total Feed Material	204	1	
11	Material In Process			
12	In Processes			
22	Slugs - Bare - 15 Material	16 866	32	12
25	Total In Processes	16 866	32	
36	Total Material In Process	16 866	32	
62	Inactive Material			
63	Metal	188	Negl	11
71	Compounds	13	Negl	18
75	Total Inactive Material	201	Negl	
198	Total	17 271	33	
400	NONPRODUCTION REACTORS AND R & D			
405	INVENTORY BY STATUS OF MATERIAL			
420	Usable, Stored for Definite Use	2 029	6	16
		2 805	7	13
480	Irradiated Material in Storage	5 270	30	17
490	Total - Nonproduction Reactors and R & D	10 104	43	
	Total Depleted Uranium	27 375	76	

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ENRICHED URANIUM - LESS THAN 75 PERCENT
COMPOSITION OF ENDING INVENTORY

JUNE 1966

Line	(In Grams)	Total U	Total U-235	Type Code
1	Material In Process			
15	Intermediate Products			
21	Slugs - Bare	425 468	4 196	22
23	UNH Solution	90 990	2 739	28
27	Total Intermediate Products	516 458	6 935	
28	Total Material in Process	516 458	6 935	
30	In Cooling Basins	170 234	1 822	22
65	Awaiting Recovery			
66	Available			
68	Miscellaneous Compounds	30 713	399	23
70	Turnings	29 030	407	23
71	Other Metal	30 498 257	340 904	22
77	Total Available	30 558 000	341 710	
83	Total Awaiting Recovery	30 558 000	341 710	
115	Total	31 244 692	350 467	
400	NONPRODUCTION REACTORS AND R & D			
405	INVENTORY BY STATUS OF MATERIAL			
420	Usable, Stored for Definite Use	2 727 543	61 853	25
450	In Miscellaneous R & D	45	1	28
470	Unirradiated Scrap Stored for Recovery	225 468	9 293	31
480	Irradiated Material in Storage	16 855	500	28
490	Total - Nonproduction Reactors and R & D	2 969 911	71 647	
	Total Enriched Uranium LT 75%	34 214 603	422 114	

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ENRICHED URANIUM - MORE THAN 75 PERCENT
COMPOSITION OF ENDING INVENTORY

JUNE 1966

(Material Type Code - 38)

Line	(In Grams)	Total U	Total U-235
69	Awaiting Recovery		
70	Available		
72	Miscellaneous Compounds	313	292
75	Other Metal	4	4
81	Total Available	317	296
88	Total Awaiting Recovery	317	296
98	Total	317	296
400	NONPRODUCTION REACTORS AND R & D		
405	INVENTORY BY STATUS OF MATERIAL		
420	Usable Stored for Definite Use	202 642	188 877
450	In Miscellaneous R & D	633	590
470	Unirradiated Scrap Stored for Recovery	59	55
480	Irradiated Material in Storage	76	71
490	Total - Nonproduction Reactors and R & D	203 410	189 593
	Total Enriched Uranium MT 75%	203 727	189 889

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PLUTONIUM
COMPOSITION OF ENDING INVENTORY

JUNE 1966

Line	(In Grams)	Total	Type Code 51	52	53
1	Material in Process				
2	In Processes				
4.1	In Cooling Basins	409		409	
4.3	In Cooling Basins-LT 75	241		241	
20	Total In Processes	650		650	
34	Total Material In Process	650		650	
84	Inactive Material				
85	Metal	19 274	19 274		
86	Compounds	671	671		
87	Solutions	109	109		
90	Total Inactive Material	20 054	20 054		
93	Total	20 704	20 054	650	-0-
100	NONPRODUCTION REACTORS AND R & D				
105	INVENTORY BY STATUS OF MATERIAL				
120	Usable, Stored for Definite Use	498 548	444 221	29 302	25 025
150	In Miscellaneous R & D	175	172		3
180	Irradiated Material In Storage	41 049	12	39 592	1 445
190	Total - Nonproduction Reactors	539 772	444 405	68 894	26 473
	Total Plutonium	560 476	464 459	69 544	26 473

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THORIUM
COMPOSITION OF ENDING INVENTORY

JUNE 1966

(Material Type Code 88)

(In Kilograms)

Line		Total
400	NONPRODUCTION REACTORS AND R & D	
405	INVENTORY BY STATUS OF MATERIAL	
420	Usable, Stored for Definite Use	5 165
480	Irradiated Material in Storage	19
490	Total - Nonproduction Reactors and R & D	5 184
	Total Thorium	5 184

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URANIUM-233
COMPOSITION OF ENDING INVENTORY

JUNE 1966

Line	(In Grams)	Total U	Total U-233	Type Code 71 U	Type Code 71 U-233	Type Code 73 U	Type Code 73 U-233
1	Material In Process						
2	In Processes						
4	In Cooling Basins	22	22	22	22		
18	Total In Processes	22	22				
32	Total Material In Process	22	22	22	22		
80	Inactive Material						
83	Solution	21	21	1	1	20	20
86	Total Inactive Material	21	21	1	1	20	20
89	Total	43	43	23	23	20	20
100	NONPRODUCTION REACTORS AND R & D						
105	INVENTORY BY STATUS OF MATERIAL						
120	Usable, Stored for Definite Use	294	281	294	281		
190	Total - Nonproduction Reactors & R&D	294	281	294	281		
	Total Uranium Enriched with U-233	337	324	317	304	20	20

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DEUTERIUM
COMPOSITION OF ENDING INVENTORY

JUNE 1966

(Material Type Code 86)

Line	(In Kilograms)	Total Heavy Water	Total Deuterium
100	NONPRODUCTION REACTORS AND R & D		
105	INVENTORY BY STATUS OF MATERIAL		
120	Usable, Stored for Definite Use	20 767.1	4 174.2
140	In Reactors or Critical Assemblies	27 425.0	5 512.4
170	Unirradiated Scrap Stored for Recovery	1 378.9	277.2
190	Total - Nonproduction Reactors and R & D	49 571.0	9 963.8
	Total Deuterium	49 571.0	9 963.8

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ENRICHED LITHIUM
COMPOSITION OF ENDING INVENTORY

JUNE 1966

(Material Type Code 61)

Line	(In Kilograms)	Total Lithium	Lithium^6
100	NONPRODUCTION REACTORS AND R & D		
105	INVENTORY BY STATUS OF MATERIAL		
120	Usable, Stored for Definite Use	5	2
190	Total - Nonproduction Reactors and R & D	5	2
	Total Enriched Lithium	5	2

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NEPTUNIUM-237
COMPOSITION OF ENDING INVENTORY

JUNE 1966

(Material Type Code 82)

(In Grams)

Line		Total
100	NONPRODUCTION REACTORS AND R & D	
105	INVENTORY BY STATUS OF MATERIAL	
150	In Miscellaneous R & D	1 176
190	Total - Nonproduction Reactors and R & D	1 176
	Total Neptunium-237	1 176

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PLUTONIUM-238
COMPOSITION OF ENDING INVENTORY

JUNE 1966

(Material Type Code 83)

Line	(In Grams)	Total Pu	Total Pu-238
100	NONPRODUCTION REACTORS AND R & D		
105	INVENTORY BY STATUS OF MATERIAL		
150	In Miscellaneous R & D	2.0	1.6
190	Total - Nonproduction Reactors and R & D	2.0	1.6
	Total Plutonium-238	2.0	1.6

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TRITIUM
COMPOSITION OF ENDING INVENTORY

JUNE 1966

(Material Type Code 87)

Line	(In Grams)	Total
1	Material in Process	
2	In Processes	
4	In Cooling Basins	3.05
9	Total in Processes	3.05
17	Total Material in Process	3.05
67	Total Tritium	3.05

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