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MATERIAL BALANCE AND NET PRODUCTION REPORT

MARCH 1973

J. G. Murphy

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MARCH 1973

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J. G. Murphy
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MATERIAL BALANCE REPORT		CURRENT MONTH
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ENDING INVENTORY By Account

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MATERIAL BALANCE REPORT CURRENT MONTH

COMPOSITION OF
ENDING INVENTORY By Account

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	NORMAL U KGS	THORIUM KGS	URANIUM-233 (GRAMS)		PLUTONIUM-238 (GRAMS)	
			U	U-233	PU	PU-238
PROCESS	4	1				
PRODUCT		360562				
TOTAL ENDING INVENTORY	4	360562				

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URAN.UM OXIDE

(AFTER FILL-IN)

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URANIUM OXIDE

(AFTER FILL-IN)

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	DEPLETED U (Kgs)		ENRICHED U (GMS)		PLUTONIUM GRAMS		NEPTUNIUM GRAMS
	U	U-235	U	U-235	PU	PU 239 + 241	
REMOVALS:							
NORMAL OPER. LOSSES			227	2			
MATERIAL UNACCOUNTED FOR			(227)	(2)			
TOTAL REMOVALS	- 0 -	- 0 -	- 0 -	- 0 -			
ENDING INVENTORY	112734	309	17592488	14162			
TOTAL ACCOUNTED FOR	112734	309	17592488	14162			

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MATERIAL BALANCE REPORT		CURRENT MONTH
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ENDING INVENTORY By Account

MARCH 19 73

	DEPLETED U (Kgs)		ENRICHED U (GMS)		PLUTONIUM GRAMS		NEPTUNIUM GRAMS
	U	U-235	U	U-235	PU	PU 239 + 241	
Process	191	1	17592.488	141162			
Product	112543	308					
TOTAL ENDING INVENTORY	112734	309	17592.488	141162			

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PLUTONIUM PROCESSING MATERIAL BALANCE REPORT CURRENT MONTH

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PLUTONIUM - GRAMS	W.G.	W.G. - O.S.	F.G.	TOTAL	TOTAL
BEGINNING INVENTORY	2331521	12189	7153465	9497175	8443680
RECEIPTS					
Purex					
Pu Reclamation			159396	159396	136442
Technical Services					
Engineering Laboratory			19	19	17
Los Alamos Scientific Lab.			4068	4068	3743
USAEC, Albuquerque AAA					
Dow Chemical ASA					
Nuclear Fuel Service JOE			12134	12134	9314
Pacific N.W. Labs HYA					
Nuclear Mat'l & Eqp. MAN					
TOTAL RECEIPTS	-0-	-0-	175617	175617	149516
TOTAL TO ACCOUNT FOR	2331521	12189	7329082	9672792	8593196

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PLUTONIUM PROCESSING

MATERIAL BALANCE REPORT

CURRENT MONTH

March 19 73

PLUTONIUM - GRAMS	W.G.	W.G. - O. S.	F.G.	PU	TOTAL
REMOVALS:					239+241
Pu Reclamation			146 042	146 042	126 949
Technical Services	154		1 042	1 196	1 058
Engineering Labs			2 006	2 006	1 780
Pacific NW Labs HYA			20 751	20 751	18 312
Nuclear Matl. & Equip. Corp. YKH			31 770	31 770	27 921
Normal Operational Losses - Discards			4	4	4
Material Unaccounted For	10		(1 056)	(1 046)	(521)
TOTAL REMOVALS	164	-0-	200 559	200 723	175 503
ENDING INVENTORY	2 331 357	12 189	7 128 523	9 472 069	8 417 693
TOTAL ACCOUNTED FOR	2 331 521	12 189	7 329 082	9 672 792	8 593 196

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PLUTONIUM PROCESSING

MATERIAL BALANCE REPORT - CURRENT MONTH

COMPOSITION OF
ENDING INVENTORY BY ACCOUNT

March 19 13

PLUTONIUM - GRAMS	WEAPONS					
	4 - 7%	7 - 10%	10 - 13%	13 - 16%	16 - 20%	> 20%
FEED STORAGE - NITRATE	22 775	448 304	480 578	131 803	8 440	
PROCESS	4 862		13 249	4 386	1 966	
PRODUCT - WEAPONS O.S.	4 005	8 184				
WEAPONS ASA						
WEAPONS	1368 040	8 259	1113 096	1621 816	109 489	40 685
WEAPONS		30 239	16 195		3 001	924
OXIDE		263	291 678	1 444	1 339	
NITRATE		279	30 439	19 471		12 069
STORAGE - CERAM ASA						
DZA	353 405		463 521			
UK			2 202	249 849	1407 149	
OTHER	569 200		1 594			
STORAGE - OXIDE DZO						
OTHER	12 568	10 106	29 823	9 245	797	9 039
STORAGE-NITRATE OFFSITE UK					4 353	
PMW		58 980				

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NET PRODUCTION REPORT

March 1973

	WEAPONS GRADE OUT OF SPECS	FUELS GRADE			TOTAL FUELS GRADE
		BUTTONS	OXIDE	NITRATE	
PLUTONIUM (IN GRAMS)					
ENDING PRODUCT INVENTORY	1368 040	2943704	294724	62258	3300686
SHIPMENTS TO:					
Pacific N.W. Labs.			20751		20751
Nuclear Metall. Equip Corp.			31770		31770
LESS:					
REJECTS FROM OFFSITE					
BEGINNING PRODUCT INVENTORY	1368 040	3011480	348533	21614	3381627
NET PRODUCTION	- 0 -	(67776)	(1288)	40644	(28420)

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PLUTONIUM - GRAMS

PLUTONIUM PROCESSING
SUMMARY OF STORAGE INVENTORY ACTIVITYARH-2718 3
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CATEGORIES		RECEIPTS			REMOVALS			ENDING INVENTORY	
		INTERNAL	ARHCO	OFFSITE	INTERNAL	ARHCO	OFFSITE		
1	Buttons W.G.							1368 040	
3	Buttons ASA W.G.								
4	Buttons F.G.								
5	Ingots F.G.					67 776		2894 269	
8	Buttons O.S.							49 435	
	Total Product Metal					67 776		12 189	
								4 323 933	
13	Oxide FFTF			245					
14	Oxide F.G.					1767	31 595	266 394	
	Total Product Oxide			245			20 751	28 330	
						1707	52 346	294 724	
24	Nitrate F.G.								
	Total Product Nitrate			40 644				62 258	
				40 644				62 258	
	Total Product			40 889					
						169 483	52 346	4680 915	
30	Miscellaneous W.G.								
44	Misc Standards F.G.							567	
45	Misc Samples F.G.							491	
46	Misc Ingots F.G.			2			175	11 782	
47	Misc Nitrate F.G.							38 291	
48	Misc Oxide F.G.							3 946	
	Total Miscellaneous Storage			2			175	110	
								55 187	

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SUMMARY OF STORAGE INVENTORY ACTIVITY

March, 19 13

CATEGORIES	BEGINNING INVENTORY	RECEIPTS			REMOVALS			ENDING INVENTORY
		INTERNAL	ARHCO	OFFSITE	INTERNAL	ARHCO	OFFSITE	
62 METAL DZA W.G.	353 405							353 405
63 METAL OTHER W.G.	569 200							569 200
64 METAL DZA F.G.	463 521							463 521
65 METAL UK F.G.	1737 200					78 000		1659 200
66 METAL OTHER F.G.	1594							1594
TOTAL OFFSITE METAL	3124 920					78 000		3046 920
72 OXIDE FZC W.G.	12672				147	17		12508
73 OXIDE UK F.G.								
74 OXIDE								
75 OXIDE OTHER F.G.	55 279			4068	129	208		59 010
TOTAL OFFSITE OXIDE	67 951			4068	276	225		71 518
82 NITRATE U.K. F.G.	4 353							4 353
83 NITRATE BNW F.G.	58 980							58 980
84 NITRATE DAA-N F.G.	15 871							15 871
85 NITRATE DAA-NFS F.G.	356 022			12 134	11 274	56		356 826
86 NITRATE CCL F.G.	70 521				4 927	458		65 136
TOTAL OFFSITE NITRATE	505 747			12 134	16 201	514		501 166
TOTAL OFFSITE STORAGE	3698 618			16 202	16 477	78 739		3619 604
TOTAL RECEIVED								

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PLUTONIUM PROCESSING SUMMARY OF STORAGE INVENTORY ACTIVITY

PLUTONIUM - GRAMS

PLUTONIUM PROCESSING

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PLUTONIUM RECLAMATION
FEED STORAGE BACKLOG

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	BEGINNING INVENTORY	RECEIPTS	REMOVALS			ENDING INVENTORY
			INCIN.	MISC. TREAT.	CANYON	
PU PROCESSING SCRAP						
1 FRAGMENTS WG	21169					21169
2 FRAGMENTS FG	4079					4079
3 SCRAP METAL WG	13201					13201
4 SCRAP METAL FG						
5 SCRAP POWDER WG	5043					5043
6 SCRAP POWDER FG						
7						
8 SOLUTIONS WG						
9 SOLUTIONS FG						
10 WASTE CARTONS WG	925					925
11 WASTE CARTONS FG	2376	266	8			2634
12						
13						
14						
15						
16						
17						
18						
TOTAL PU PROCESSING	46793	266	8			47051
PU RECLAMATION SCRAP						
19 MISCELLANEOUS SCRAP WG	120					120
20 MISCELLANEOUS SCRAP FG	2069					2069
21 CENTRIFUGE SLUDGE	262	566	570			258
22 SOLUTIONS WG	2339	208		430		2117
23 SOLUTIONS FG	-0-	447		321		126
24 INCINERATOR ASH WG	175671					175671
25 INCINERATOR ASH FG	8319					8319
26 WASTE CARTONS WG	2919		80			2839
27 WASTE CARTONS FG	1986	787	917			1856
28						
29 INCINERATOR ASH-FILTER MEDIA WG	31980					31980
30 INCINERATOR ASH FILTER MEDIA FG	3267	233				3500
31 INCINERATOR ASH - U CONTAM	8231	1085				9316
32 CONTAMINATED EQUIPMENT	185	9				194
33 INCINERATOR SORTING HOOD DRUMS	1385	125				1446
34 STANDARDS						
35						

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PLUTONIUM - GRAMS

PLUTONIUM RECLAMATION

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FEED STORAGE BACKLOG

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	BEGINNING INVENTORY	RECEIPTS	REMOVALS			ENDING INVENTORY
			INCIN	MISC. TREAT.	CANYON	OTHER
36 Purex Miscellaneous WG	23					23
37						
38						
39						
40 U.K. Rework	31 656	145 776		146 476		30 956
TOTAL PU RECLAMATION	270 412	149 236	1567	147 227		4539 266 315
TECHNICAL SERVICES						
41 MISCELLANEOUS SCRAP WG	4553					4553
42 MISCELLANEOUS SCRAP FG	1318	1169				2487
43						
44 SOLUTIONS WG	850					850
45 SOLUTIONS FG	2266	738				3004
46 WASTE CARTONS WG	891					891
47 WASTE CARTONS FG	-0-	457	41			416
48						
49 SCRAP WITH URANIUM FG	-0-	31				31
50						
TOTAL TECHNICAL SERVICES	9878	2395	41			13232
ENGINEERING						
51 MISCELLANEOUS SCRAP WG	18	6161				6179
52 MISCELLANEOUS SCRAP FG	295					295
53	616					616
54 SOLUTIONS WG	-0-	11			11	-0-
55 SOLUTIONS FG						
56 SCRAP WITH URANIUM FG	1249					1249
57 SOLUTIONS WITH URANIUM FG						
58 Crucibles WG - FG	-0-	455				455
59						
60						
TOTAL ENGINEERING	2178	6627			11	8794
FABRICATION						
61 Si N FRAGMENTS	5751					1569 4182
62						
63 OIL	1919					1919
64 MISCELLANEOUS SCRAP	37					37
TOTAL FABRICATION	7707					1569 6138

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PLUTONIUM RECLAMATION
FEED STORAGE BACKLOG

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PLUTONIUM - GRAMS

BATTLE NORTHWEST	BEGINNING INVENTORY	TRECEIPTS.	REMOVALS				ENDING INVENTORY
			INCIN	MISC TREAT	CANYON	OTHER	
65							
56 SCRAP POWDER WG	79 375						79 375
57 SCRAP POWDER FG '04	519						519
58 SCRAP POWDER FG OTHER							
59 PU ZR SCRAP	2641						
70 PU ZR SCRAP '4	3482				1416		1225
71 PU AL SCRAP FG '04	10819						3482
72 PU AL SCRAP FG OTHER	2524				63		10756
73 MISCELLANEOUS SCRAP WG	462						2524
74 MISCELLANEOUS SCRAP FG '04	9654						462
75 MISCELLANEOUS SCRAP FG OTHER	2598						9654
76 U - TH SCRAP WG	7020						2598
77 U - TH SCRAP FG '04	40356						7020
78 U - TH SCRAP FG OTHER	2443				(6)		40362
79 WASTE CARTONS WG	488						2443
80 PU ZR SCRAP - OTHER	888						488
81 WASTE CARTONS FG OTHER	509	135					888
82 SOLUTIONS - WG	208						644
83 POLYSTYRENE	3271				208		-0-
84 SOLUTIONS - FG	207						3271
85 PU - U DYLENE SCRAP	14501						207
87							14501
88							
89							
TOTAL BATTLE NORTHWEST	181 965	135			63	1410	180419
HEDL							
30 PUO ₂ POWDER AND PELLETS FG							
91 PUO ₂ OXIDE SCRAP FG	7						7
92 PUO ₂ - UO ₂ POWDER AND PELLETS FG	2						2
93 PUO ₂ - UO ₂ SCRAP FG	30						30
94 PU - U SPHERES AND MOUNTS	50						50
95							
96							
97							
TOTAL HEDL	89						89
98 PUO ₂ REPACKAGE - PRO	752						752
99							
OTHER OFFSITE	119 117	3613			208	7287	
TOTALS	638 891	162 272	1616	147 443	7361	7518	115235

IN ADDITION -0- RCR'S FROM PU PROCESSING DIRECT TO CANYON.
147 569 FROM MISCELLANEOUS TREATMENT DIRECT TO CANYON.

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(AFTER FILL-IN)MATERIAL BALANCE REPORT
CURRENT MONTH
March 19 73Plutonium Reclamation

	DEPLETED U (Kgs)		ENRICHED U (GMS)		PLUTONIUM GRAMS		NEPTUNIUM GRAMS
	U	U-235	U	U-235	PU	PU 239 + 241	
BEGINNING INVENTORY	347	2			671331	615753	
RECEIPTS:							
Pu Processing					146042	126949	
Technical Services	*	*			2395	2120	
Engineering Labs					6627	6262	
Monsanto AVA					765	711	
Argonne CZA					2848	2671	
Pac. N.W. Labs HVA					(2669)	(2394)	
TOTAL RECEIPTS	*	*			156008	136319	
TOTAL TO ACCOUNT FOR	347	2			827339	752072	

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MATERIAL BALANCE REPORT

CURRENT MONTH

March 19 73

REMOVALS:	DEPLETED U (Kgs)		ENRICHED U (GMS)		PLUTONIUM GRAMS		NEPTUNIUM GRAMS
	U	U-235	U	U-235	PU	PU 239 + 241	
Pu Processing					159 396	136 442	
Technical Services					1 167	1 033	
Engineering Labs					91	82	
Los Alamos AUA					7 172	6 776	
Pac. N.W. Labs HYA					147	139	
N.O.B. Stored					35	32	
Discard					510	451	
M.U.F.-Feed	86	1			(95)	(90)	
Inc.					389	356	
M.S. Dr.					(5447)	(4630)	
Canyon					8519	7801	
TOTAL REMOVALS	86	1			171884	148392	
ENDING INVENTORY	261	1	96563	60806	655455	603680	
TOTAL ACCOUNTED FOR	347	2			827339	752072	

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(AFTER FILL-IN)

(AFTER FILL-IN)

March 19 73

ENDING INVENTORY By Account

	DEPLETED U (Kgs)		ENRICHED U (GMS)		PLUTONIUM GRAMS		NEPTUNIUM GRAMS
	U	U-235	U	U-235	PU	PU 239 + 241	
Feed Storage	261	1	96563	60806	637025	587516	
Incinerator					453	414	
Miss. Sarcophagi					7153	6160	
Canyon					10824	9590	
TOTAL ENDING INVENTORY					655455	603680	

TOTAL ENDING INVENTORY

655455	603680
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(AFTER FILL-IN)

NET PRODUCTION REPORT

March 19 73

	DEPLETED U (LBS)		ENRICHED U (LBS)		PLUTONIUM GRAMS	NEPTUNIUM GRAMS
	U	U-235	U	U-235		
Ending Product Inventory					— 0 —	
Plus Removals :						
CCP's					159 396	
Less Returns:						
Less Beginning Prod. Inv.					— 0 —	
NET PRODUCTION					159 396	

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MATERIAL BALANCE REPORT

March 19 73

Plutonium Reclamation

	NORMAL U Kgs	THORIUM Kgs	URANIUM - 233 (GRAMS)		PLUTONIUM - 238 (GRAMS)	
			U	U-233	PU	PU-238
BEGINNING INVENTORY	936	21	70	70		
RECEIPTS:						
Technical Services	*					
TOTAL RECEIPTS	*					
TOTAL TO ACCOUNT FOR	936					

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(AFTER-FILL-

MATERIAL BALANCE REPORT		CURRENT MONTH
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34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
49	50	51
52	53	54
55	56	57
58	59	60
61	62	63
64	65	66
67	68	69
70	71	72
73	74	75
76	77	78
79	80	81
82	83	84
85	86	87
88	89	90
91	92	93
94	95	96
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100	101	102
103	104	105
106	107	108
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367		

March 19 73

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TECHNICAL SERVICES

(AFTER FILL-IN)

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MATERIAL BALANCE REPORT CURRENT MONTH

MARCH 1973

	DEPLETED U (Kgs)		ENRICHED U (GMS)		PLUTONIUM GRAMS		NEPTUNIUM GRAMS
	U	U-235	U	U-235	PU	PU 239 + 241	
BEGINNING INVENTORY	NEGL.	NEGL.	2	2	7583	6861	137
RECEIPTS:							
Purex							
Pu Processing					1196	1058	
Pu Reclamation					1167	1033	
ENG. LABS					13	12	
NATIONAL BUA OF STUDIOS					11	11	
ALLIED CHEM CORP-ISA					3	2	
Pac. N. W. Lab	NEGL.	NEGL.			240	225	
Dow Chemical					40	36	
NEEL					30	26	
TOTAL RECEIPTS	NEGL.	NEGL.	-0-	-0-	2700	2403	
TOTAL TO ACCOUNT FOR	NEGL.	NEGL.	2	2	10283	9264	137

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TECHNICAL SERVICES

(AFTER-FILL-)

MATERIAL BALANCE REPORT CURRENT MONTH

MARCH 19 73

	NORMAL U Kgs	THORIUM Kgs	URANIUM -233 (GRAMS)		PLUTONIUM - 238 (GRAMS)	
			U	U-233	PU	PU-238
REMOVALS:						
PU RECLAMATION	NEGL					
Normal Operational Losses & Discards						
M.U.F.	(NEGL)					
TOTAL REMOVALS	- 0 -					
ENDING INVENTORY	14	2	235	231		
TOTAL ACCOUNTED FOR	14	2	235	231		

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ENGINEERING LABS

(AFTER FILL-IN)

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MATERIAL BALANCE REPORT

CURRENT MONTH

MARCH

19 73

REMOVALS:	DEPLETED U (Kgs)		ENRICHED U (GMS)		PLUTONIUM GRAMS		NEPTUNIUM GRAMS
	U	U-235	U	U-235	PU	PU 239 + 241	
PW PROCESSING					19	17	
PW RECLAMATION					6627	6262	
TECH. SERVICES					13	12	
NORMAL OPERATIONAL					7	6	NEGL.
LOSSES & DISCARDS							
MULE					51	73	(1)
TOTAL REMOVALS	- 0 -				6717	6370	NEGL.
ENDING INVENTORY	68	NEGL.			18699	17223	240
TOTAL ACCOUNTED FOR	68	NEGL.			25416	23593	239

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MATERIAL BALANCE REPORT CURRENT MONTH

COMPOSITION OF
ENDING INVENTORY By Account

MARCH 19 73

	NORMAL U Kgs	THORIUM Kgs	URANIUM-233 (GRAMS)		PLUTONIUM-238 (GRAMS)	
			U	U-233	PU	PU-238
Process Engineering OSE	4				6.7	5.3
Process Design FEO			34	34		
Chem. Tech. Lab R&D	14	3				
TOTAL ENDING INVENTORY	18	3	34	34	6.7	5.3

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