Atlantic Richfield Hanford Company
Richland, Washington 99352

ARH-CD-133C

PRODUCTION AND WASTE MANAGEMENT DIVISION
WASTE STATUS SUMMARY
JULY 1, 1974 THROUGH SEPTEMBER 30, 1974

J. D. Anderson

November 27, 1974

PREPARED FOR THE U.S. ATOMIC ENERGY
COMMISSION UNDER CONTRACT AT(45-1) 2130

NOTICE
This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Energy Research and Development Administration, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness or usefulness of any information, apparatus, product or process disclosed, or represents that its use would not infringe privately owned rights.

PRELIMINARY REPORT

THIS REPORT CONTAINS INFORMATION OF A PRELIMINARY NATURE. IT IS SUBJECT TO REVISION OR CORRECTION AND THEREFORE DOES NOT REPRESENT A FINAL REPORT. IT WAS PREPARED PRIMARILY FOR INTERNAL USE WITHIN THE ATLANTIC RICHFIELD HANFORD COMPANY. ANY EXPRESSED VIEWS AND OPINIONS ARE THOSE OF THE AUTHOR AND NOT NECESSARILY OF THE COMPANY.

NOTICE

THIS REPORT WAS PREPARED AS AN ACCOUNT OF WORK SPONSORED BY THE UNITED STATES GOVERNMENT. NEITHER THE UNITED STATES NOR THE UNITED STATES ATOMIC ENERGY COMMISSION, NOR ANY OF THEIR EMPLOYEES, NOR ANY OF THEIR CONTRACTORS, SUBCONTRACTORS, OR THEIR EMPLOYEES, MAKES ANY WARRANTY, EXPRESS OR IMPLIED, OR ASSUMES ANY LEGAL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS OR USEFULNESS OF ANY INFORMATION, APPARATUS, PRODUCT OR PROCESS DISCLOSED, OR REPRESENTS THAT ITS USE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS.

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency Thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

PRODUCTION AND WASTE MANAGEMENT DIVISION
WASTE STATUS SUMMARY
JULY 1, 1974 THROUGH SEPTEMBER 30, 1974

J. D. Anderson

Waste Handling and Plutonium Finishing Process Engineering
Operations Technical Support Department
Production and Waste Management Division

November 27, 1974

Operated for the Atomic Energy Commission by
Atlantic Richfield Hanford Company under Contract AT(45-1)-2130

UNCLASSIFIED

ARH-CD-133C

SUMMARY FOR QUARTER ENDING September 30, 19 74

WASTE RECEIVED				
FROM	TO	TYPE WASTE	GALLONS	
			SELF-BOILING	NON-BOILING
AR Vault	TK-102-A	High Level	27,000	
AR Vault	TK-103-A	High Level	347,000	
AR Vault	TK-104-A	High Level	97,000	
AR Vault	TK-106-A	High Level	11,000	
B Plant	TK-102-A	High Level	46,000	
B Plant	TK-106-A	High Level	407,000	
B Plant	TK-104-BX	Low Level	-	201,000
B Plant	TK-106-C	Low Level	-	283,000
Purex	TK-104-C	Low Level	-	10,000
154-B Catch Tank	TK-106-C	Low Level	-	15,000
T Plant	TK-107-U	Decontamination	-	121,000
BNW	TK-107-U	Low Level	-	275,000
UNI	TK-107-U	Low Level	-	121,000
222-S	TK-110-U	Laboratory Waste	-	24,000
301-U Catch Tank	TK-111-U	Low Level	-	9,000
234-5 Z	TK-118-TX	Low Level	-	73,000
Water	Various	Flush and Pit Water	-	1,945,000
TOTAL			934,000	3,077,000

WASTE EVAPORATED		
FACILITY	Gallons Space Recovered	
	QUARTER ENDING 6/30/74	QUARTER ENDING 9/30/74
In-Tank Solidification Units 1 & 2	-9,000	-
242-T Evaporator	344,000	496,000
242-S Evaporator-Crystallizer	4,204,000	2,904,000
TOTAL	4,539,000	3,400,000

WASTE INVENTORY		
	QUARTER ENDING 6/30/74	QUARTER ENDING 9/30/74
SELF-BOILING WASTE	4,998,000 incl. 261,000	5,766,000 incl. 251,000
GALLONS OF SUPERNATANT	water & 17,000 IX	water & 17,000 IX
GALLONS OF SOLIDS	408,000	378,000
TOTAL STORAGE RESERVE (gallons)	1,258,000	1,777,000
NON-BOILING WASTE		
GALLONS OF SUPERNATANT	27,411,000	24,082,000
GALLONS OF SOLIDS	25,639,000	26,676,000 (.)
AVAILABLE USEFUL STORAGE RESERVE (GALLONS)	13,527,000	15,721,000

(1) Includes 601,000-gallon increase in solids in ITS, 242-S and 242-T bottom tanks and a gain of 436 gallons in other tanks.

UNCLASSIFIED

OVERALL STATUS OF WASTE FARMS ON September 30, 19 74

TYPE OF WASTE*		GAL. IN STORAGE	GAL. OF UNFILLED SPACE	TOTAL GALLONS
PUREX		86,000	0	86,000
REDOX		1,510,000	0	1,510,000
B PLANT(HIGH LEVEL)		3,655,000 (1)	1,777,000	5,432,000
B PLANT (LOW LEVEL)		632,000	0	632,000
ION EXCHANGE (PUREX SUPERNATANT)		2,837,000	3,696,000	6,533,000
ION EXCHANGE (REDOX SUPERNATANT)		3,044,000	0	3,044,000
COATING	EAST	460,000	613,000	1,073,000
	WEST	620,000	0	620,000
N, LW, BNW AND SSW	EAST	696,000	0	696,000
	WEST	401,000	1,313,000	1,714,000
OWW	EAST	220,000	63,000	283,000
	WEST	483,000	709,000	1,192,000
FIRST CYCLE	EAST	83,000	0	83,000
	WEST	121,000	0	121,000
DW	East	134,000	0	134,000
	West	109,000	429,000	538,000
SECOND CYCLE	WEST	291,000	0	291,000
PSS	EAST	2,427,000	0	2,427,000
TBP	East	41,000	0	41,000
	West	14,000	0	14,000
EVAPORATOR BOTTOMS	EAST	4,293,000	2,561,000	6,854,000
	WEST	7,691,000	6,337,000	14,028,000
SOLIDS	EAST	10,776,000	- - -	10,776,000
	WEST	16,278,000	- - -	16,278,000
UNAVAILABLE FREE SPACE			(21,280,000)	(21,280,000)
TOTAL		56,902,000	(38,778,000) (2) 17,498,000	(95,680,000) (2) 74,400,000

* SEE PAGE 9 FOR CODE. (1) Includes 201,000 water in 102-AY.
(2) Includes unavailable free space.

UNCLASSIFIED

DATA IN 10³ GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	CAP.	GALLONS			RESERVE		REMARKS
			TOTAL	LIQUID	SOLIDS	GAL.	TYPE WASTE	
B FARM								
101	BL(EB)	530	432	323	109	98	EB	
102	EB-BL-IX	530	452	340-32-47	33	78	EB	6 from 107-B; 15 from 110-B; 19 to }
103	BNW-N-LW(1)	530	504	35-48-18(1)	52	26	U	19 from 102-B. \ 103-B; 63 to 106-B. }
104	EB	530	407	7	400	123	EB	
105		530	490	0	490	40	U	
106	224-BNW(2)	530	289	27-53(2)	147	241	EB	63 from 102-B.
107		530	193	0	193	337	U	Suspect leaker; 6 to 102-B.
108	EB	530	156	42	114	374	EB	
109	224-IX-EB	530	397	18-136-107	136	133	EB	4 from 201-B.
110		530	282	0	282	248	U	Suspect leaker; 15 to 102-B.
111		530	249	0	249	281	IX	
112	EB	530	329	315	14	201	EB	ITS bottoms and recycle.(3)
TOTAL		6360	4,180	1,961	2,219			
201	224	55	29	3	26	26	U	Suspect leaker; 4 to 109-B.
202	224	55	53	26	27	2	U	
203	224	55	50	6	44	5	U	
204	224	55	49	3	46	6	U	
TOTAL		220	181	38	143			
C FARM								
101		530	81	0	81	449	U	Suspect leaker; 49 to 104-C.
102	CW-OWW	530	467	43-125	299	63	OWW	
103	BNW-N-LW(4)	530	107	3-5-2-(4)	90	423	CW	59 from 104-C; 297 to 107-S.
	BNW-N-LW-B-			8-13-4-4-				
104	CW-PL-EB	530	340	4-4-29	274	190	CW	10 from Purex; 49 from 101-C; 3 water;
105	PSS	530	231	119	112	299	U	203 to B Plant. \ 59 to 103-C.
106	PSS-B	530	324	45-154	125	206	U	(6)
	BNW-N-LW-			72-129-6-				
107	CW-DW-IX-EB	530	515	27-19-51-5	206	15	U	
108	BNW-N-LW(5)	530	516	27-38-15(5)	76	14	U	
109	CW-IX	530	504	67-342	95	26	U	
	CW-OWW-			75-80-				
110	EB-RIX	530	376	5-16	200	154	IX	
111	CW	530	115	39	76	415	U	Suspect leaker.
112	CW-IX	530	530	81-329	120	0	U	
TOTAL		6360	4,106	2,352	1,754			
201		55	3	2	1	52	U	
202		55	2	2	0	53	U	
203	SSW	55	8	5	3	47	U	
204	SSW	55	44	43	1	11	U	
TOTAL		220	57	52	5			

* SEE PAGE 9 FOR CODE

(1) R-CW-DW- 96-18-64-

IX-TBP-EB 135-23-15

(2) EB-BL-IX 50-5-7

(3) Due to the characteristics of solids in the bottoms tanks and the inability to measure them precisely, there is a significant degree of uncertainty in the liquid-to-solid ratio of the B, BX, and BY Farm tanks.

(4) PL-B-CW-EB

2-2-2-1

(5) CW-DW-IX-

43-51-157-

TBP-R-OWW

18-77-14

(6) 283 from B Plant; 15 from 154-B catch tank; ; water; 221 to 103-AX.

UNCLASSIFIED

DATA IN 10³ GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	GALLONS				RESERVE		REMARKS
		CAP.	IN STORAGE			GAL.	TYPE WASTE	
			TOTAL	LIQUID	SOLIDS			
BX FARM								
101		530	46	0	46	484	U	Suspect leaker; 1 to 104-BX.
102		530	41	0	41	489	None	Tank leaks; contains diatomaceous
103	IX-PL-BNW(1)	530	504	187-43-24(1)	46	26	U	earth.
104	BL-IX	530	480	42-332	106	50	U	201 from B Plant; 1 from 101-BX; 2
105	EB-IX	530	416	158-206	52	114	IX	water.
106	BL-CW-OWW(2)	530	251	26-1-1-(2)	10	279	EB	1 from 108-BX; 66 from 107-BX.
107	IX	530	474	98	376	56	IX	66 to 106-BX.
108		530	34	0	34	496	None	Tank leaks; 1 to 106-BX.
109		530	211	0	211	319	IX	
110	EB	530	500	212	288	30	U	ITS bottoms and recycle. (3)
111	EB	530	508	274	234	22	U	ITS bottoms and recycle. (3); 102 from
112		530	216	0	216	314	EB	102-BY.
TOTAL		6360	3,681	2,021	1,660			
BY FARM								
101	EB	750	748	330	418	2	U	ITS bottoms and recycle. (3)
102	EB	750	628	420	208	122	U	ITS bottoms and recycle. (3) (4)
103		750	469	0	469	281	None	Tank leaks; 13 to 109-BY.
104	EB	750	718	249	469	32	U	ITS bottoms and recycle. (3)
105		750	628	0	628	122	EB	ITS bottoms and recycle. (3) (5)
106	EB	750	697	203	494	53	EB	ITS bottoms and recycle. (3) (8)
107	EB	750	492	48	444	258	EB	ITS bottoms and recycle. (3)
108		750	304	0	304	446	None	Tank leaks; 10 to 109-BY.
109	EB	750	602	169	433	148	EB	ITS feed receiving tanks. (3) (6)
110	EB	750	688	411	277	62	EB	ITS bottoms and recycle. (3)
111	EB	750	673	531	142	77	EB	ITS bottoms and recycle. (3)
112	EB	750	703	372	331	47	U	ITS bottoms and recycle. (3) (7)
TOTAL		9000	7,350	2,733	4,617			

* SEE PAGE 9 FOR CODE

(1) N-LW-CN 69-75-60

(2) IX 213

(3) Due to the characteristics of solids in the bottoms tanks and the inability to measure them precisely, there is a significant degree of uncertainty in the liquid-to-solid ratio of the B, BX, and BY Farm tanks.

(4) 102 to 111-BX; 98 from 112-BY.

(5) 29 to 106-BY; 73 to 109-BY.

(6) 13 from 103-BY; 73 from 105-BY; 36 from 106-BY; 10 from 108-BY; 111 to 112-BY.

(7) 111 from 109-BY; 98 to 102-BY.

(8) 29 from 105-BY; 2 water, 36 to 109-BY.

UNCLASSIFIED

DATA IN 10³ GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	GALLONS				RESERVE		REMARKS	
		CAP.	IN STORAGE			GAL.	TYPE WASTE		
			TOTAL	LIQUID	SOLIDS				
T FARM									
101	CW-IX-EB- RIX-R-DW(1)	530	259	11-84-18- 65-20.5-(1)	37	271	EB	139 from 103-T; 37 from 106-T; 230 to 110-S.	
102	IX	530	60		1	59	470		IX
103	BL-IX-RIX	530	26	1-4-3	18	504	IX	139 to 101-T.	
104	---	530	483		0	483	47	U	
105	DW-BL-IX	530	113	1-3-9	100	417	IX		
106	---	530	23		0	23	507	None	Tank leaks; 37 to 101-T.
107	IX	530	400	291	109	130	IX		
108	BL-IX	530	170	29-35	106	360	IX		
109	EL-IX-ENW	530	147	2-2-5	138	383	ENW		
110	224-2C	530	483	190	293	47	U	8 water.	
111	---	530	485		0	485	45	U	
112	DW-CW-BL-IX	530	101	31-3-8-27	32	429	DW	136 to 110-S.	
TOTAL		6360	2,750	867	1,883				
201	224	55	54	23	31	1	U		
202	224	55	51	21	30	4	U		
203	224	55	51	16	35	4	U		
204	224	55	50	6	44	5	U		
TOTAL		220	206	66	140				
U FARM									
101	R	530	59	19	40	471	None	Tank leaks.	
102	R	530	100	57	43	430	EB		
103	R	530	111	79	32	419	EB		
104	---	530	127	0	127	403	None	Tank leaks; contains diatomaceous	
105	R-CW	530	88	21-35	32	442	EB	earth.	
106	R	530	86	60	26	444	EB		
107	ENW-N DW	530	267	109-10-58	90	263	BNW	275 from BNW; 121 from UNI, 121 from T Plant; 639 to 110-S.	
108	N-BNW-LW(2)	530	101	35-9-14 (2)	29	429	BNW		
109	CW-EB	530	127	4-75	48	403	EB		
110	LW-CW	530	292	85-24	183	238	LW	24 from 222-S.	
111	R	530	152	133	26	371	EB	9 from 301-U catch tank.	
112	R	530	73	13	60	457	U	Suspect leaker.	
TOTAL		6360	1,520	854	736				
201	CW	55	49	45	4	6	U		
202	CW	55	51	47	4	4	U		
203	CW	55	46	42	4	9	U		
204	2C-CW	55	21	35-15	1	4	U		
TOTAL		220	197	184	13				

* SEE PAGE 3 FOR CODE

(1) BL 19
 (2) CW-EB 1 13

UNCLASSIFIED

DATA IN 10³ GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	CAP.	GALLONS			RESERVE		REMARKS
			TOTAL	LIQUID	SOLIDS	GAL.	TYPE WASTE	
TX FARM								
101	BL-IX-1C-TBP	750	427	102-127 121-4	73	323	IX	294 to 118-TX.
102	EB	750	700	514	186	50	EB	242-T bottoms and recycle. (1)
103	EB	750	728	725	3	22	U	242-T bottoms and recycle. (1)
104	BL-OWW-RIX-R-TBP	750	132	8-16-15- 68-7	18	618	EB	
105	EB	750	722	223	499	28	U	242-T bottoms and recycle. (1)
106	EB	750	690	422	268	60	EB	242-T bottoms and recycle. (1)
107	R	750	675	651	24	75	EB	
108	EB	750	721	640	81	29	U	242-T bottoms and recycle. (1)
109	EB	750	717	594	123	33	U	242-T bottoms and recycle. (1)
110	EB	750	722	289	433	28	U	242-T bottoms and recycle. (1)
111	EB	750	697	308	389	53	EB	242-T bottoms and recycle. (1)
112	EB	750	685	26	659	65	EB	242-T bottoms and recycle. (1)
113	EB	750	712	56	656	38	U	242-T bottoms and recycle. (1)
114	EB	750	732	76	656	18	U	242-T bottoms and recycle. (1)
115	EB	750	701	59	642	49	U	242-T bottoms and recycle. (1)
116	----	750	631	0	631	119	U	Contains diatomaceous earth.
117	----	750	626	0	626	124	U	Contains diatomaceous earth.
118	EB	750	616	355	261	134	EB	73 from 234-5-Z; 294 from 101-TX; 121 from 102-TY; 136 water; 632 evap.
TOTAL		13500	11,634	5,406	6,228			
TY FARM								
101	----	750	184	0	184	566	U	Suspect leaker; 6 to 102-TY.
102	EB-BL-OWW(2)	750	602	393-32-66(2)	30	148	EB	(3)
103	----	750	215	0	215	535	None	Tank leaks; 5 to 102-TY.
104	----	750	41	0	41	709	OWW	2 to 102-TY.
105	----	750	285	0	285	465	None	Tank leaks; 3 to 102-TY.
106	----	750	19	0	19	731	None	Tank leaks; contains diatomaceous earth.
TOTAL		4500	1,346	572	774			

* SEE PAGE 9 FOR CODE

(1) Due to the characteristics of solids in bottoms tanks and the inability to measure them precisely, there is a significant degree of uncertainty in the liquid-to-solid ratio of the TX Farm tanks.

(2) RIX-TBP-R 61-3-17

(3) 6 from 101-TY; 5 from 103-TY; 2 from 104-TY; 3 from 105-TY; 121 to 118-TX.

UNCLASSIFIED

DATA IN 10³ GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE *	CAP.	GALLONS			RESERVE		REMARKS
			IN STORAGE			GAL.	TYPE WASTE	
			TOTAL	LIQUID	SOLIDS			
S FARM								
101	BNW-N-LW-PL-B-CW	750	339	19-34-11-8-12-11	244	411	EB	7 from 105-S; 85 from 107-S; 1215 from 110-S; 339 from 101-SX; 1883 to 102-S; 12 to 107-S.
102	EB	750	691	588	103	59	EB	242-S feed tank. (1) (2)
103	EB	750	570	533	37	180	EB	242-S bottoms and recycle. (1)
104	R	750	309	68	241	441	U	Suspect leaker; 1 to 107-S.
105	---	750	549	0	549	201	EB	242-S bottoms and recycle.(1) 7 to
106	EB	750	669	233	436	81	EB	242-S bottoms and recycle.(1)\101-S.
107	BNW-N-LW-PL-B-CW	750	468	25-44-15-10-16-15	343	282	EB	297 from 103-C; 613 from 110-S; 85 to 101-S; 860 to 102-S; 12 from 101-S(3)
108	EB	750	706	4	702	44	U	242-S bottoms and recycle. (1)
109	EB	750	700	47	653	50	EB	242-S bottoms and recycle. (1)
110	EB	750	580	449	131	170	EB	242-S bottoms and recycle. (1) (4)
111	EB	750	730	228	502	20	U	242-S bottoms and recycle. (1)
112	EB	750	732	46	686	18	U	242-S bottoms and recycle. (1)
TOTAL		9000	7,043	2,416	4,627			
SX FARM								
101(NB)	EB	1000	922	456	466	78	EB	242-S bottoms and recycle. (1) (5)
102(NB)	EB-RIX	1000	363	52-252	59	637	EB	598 to 102-S.
103(NB)	CW-OWW-R	1000	928	367-401-35	125	72	EB	
104(NB)	EB-RIX	1000	927	87-671	169	73	EB	
105	EB-RIX	1000	940	182-692	66	60	EB	
106(NB)	Water	1000	966	965	1	34	U	
107	---	1000	110	0	110	890	None	Tank leaks.
108	---	1000	142	0	142	858	None	Tank leaks.
109	---	1000	257	0	257	743	None	Tank leaks.
110	RIX-R	1000	432	304-96	32	568	IX	516 to 110-S.
111	---	1000	128	0	128	872	None	Tank leaks.
112	---	1000	112	0	112	888	None	Tank leaks.
113	---	1000	2	0	2	998	None	Tank leaks; contains diatomaceous
114	---	1000	200	0	200	800	U	Suspect leaker. earth.
115	---	1000	8	0	8	992	None	Tank leaks.
TOTAL		15000	6,437	4,560	1,877			

- (1) Due to the characteristics of solids in the bottoms tanks and the inability to measure them precisely, there is a significant degree of uncertainty in the liquid-to-solid ratio of the S and SX Farm tanks.
- (2) 1883 from 101-S; 81 from 101-SX; 598 from 102-SX; 860 from 107-S; 288 from 110-S; 1628 water; 4532 evaporated.
- (3) 1 from 104-S.
- (4) 516 from 110-SX; 230 from 101-T; 136 from 112-T; 639 from 107-U; 168 water; 1215 to 101-S; 288 to 102-S; 613 to 107-S.
- (5) 339 to 101-S.

* SEE PAGE 9 FOR CODE

** NB- TANK NOT EQUIPPED FOR BOILING WASTE

UNCLASSIFIED

ARH- CD-133C

DATA IN 10³ GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	CAP.	GALLONS			RESERVE		REMARKS
			IN STORAGE			GAL.	TYPE WASTE	
			TOTAL	LIQUID	SOLIDS			
A FARM								
101	P-B	1000	957	19-905	33	43	U	Sluicing completed in March 1969.
102	B	1000	173	173	0	827	B	Sluicing comp. 9/74; 46 from B Plant(1)
103	Water	1000	50	50	0	950	B	Sluicing. 347 from AR Vault.
104	PSS	1000	96	39	57	904	U	Sluicing. 96 from AR Vault (2).
105	IX	1000	50	17	33	950	None	Tank leaks; no sluicing activity.
106	B	1000	987	975	12	13	U	Sluicing completed in January 1974;
TOTAL		6000	2,313	2,178	135			407 from B Plant; 11 from AR Vault.
AX FARM								
101	PSS	1000	784	707	77	216	U	20 water; 46 from 104-A.
102	B	1000	238	188	50	762	U	17 water; 47 from 104-A.
103	PSS	1000	870	798	72	130	U	221 from 106-C.
104	PSS	1000	763	719	44	237	U	146 water; 446 from 104-A.
TOTAL		4000	2,655	2,412	243			
AY FARM								
101	B	1000	975	975	0	25	U	
102	Water	1000	201	201	0	799	U	Spare.
TOTAL		2000	1,176	1,176	0			
AZ FARM								
101		1000	--	--	--	--	U	Under construction.
102		1000	--	--	--	--	U	Spare.
TOTAL		2000	--	--	--			

- (1) 27 from AR Vault.
 (2) 46 to 101-AX; 47 to 102-AX; 446 to 104-AX.

* CODE:

B - B PLANT HIGH LEVEL WASTE
 BL - B PLANT LOW LEVEL WASTE
 BNW - 300 Area Waste
 CW - COATING WASTE
 DW - DECONTAMINATION WASTE
 EB - EVAPORATOR BOTTOMS
 IX - ION EXCHANGE WASTE (Purex)
 OWW - ORGANIC WASH WASTE
 P - PUREX WASTE
 PSS - SLUDGE WASH WASTE
 PL - Purex Low Level Waste

R - REDOX WASTE
 RIX - ION EXCHANGE WASTE FROM REDOX SUPERNATANT
 SIX - ION EXCHANGE WASTE FROM SLUDGE SUPERNATANT (PSS)
 SSW - SEMIWORKS WASTE
 TBP - TBP WASTE
 U - UNAVAILABLE
 IC - FIRST CYCLE WASTE
 2C - SECOND CYCLE WASTE
 224 - 224 BLDG WASTE
 N - 100-N Waste
 LW - 222-S Laboratory Waste

TANK FARM SUMMARY

(THOUSANDS OF GALLONS)

QUARTER ENDING 9-30 1974

TANK FARM	NO. OF TANKS	NO. OF LEAKERS	NOMINAL TANK VOLUME	USEFUL STORAGE CAPACITY EACH	GROSS USEFUL STORAGE CAPACITY	NET (1) USEFUL STORAGE CAPACITY	EFFECTIVE (2) VOLUME OF STORED WASTE	AVAILABLE USEFUL STORAGE RESERVE
B, C, T, U, BX	16	0	55	55	880	641	641	0
	60	5	530	530	31,800	26,151	16,307	9,844
TX, TY, BY, S	48	5	750	750	36,000	31,762	27,373	4,389
SX (REDOX NON-BOILING TYPE)	5	0	1000	1000	5,000	4,966	4,106	860
SX (REDOX BOILING TYPE)	10	7	1000	1000	10,000	2,959	2,331	628
A (PUREX BOILING TYPE)	6	1	1000	1000	6,000	4,090	2,313	1,777
AX (PUREX BOILING TYPE)	4	0	1000	1000	4,000	4,000	4,000	0
AY (PUREX BOILING TYPE)	2	0	1000	1000	2,000	2,000	2,000	0
AZ (PUREX BOILING TYPE) (3)	2	0	1000	1000	1,000	1,000	1,000	0
SY (Purex Boiling Type) (4)	3	0	1000	1000	-			

(1) Storage capacity in the nonboiling tank farms after disallowance: space in leaking tanks (102-BX, 108-BX, 103-BY, 108-BY, 106-T, 103-TY, 105-TY, 106-TY, 101-U, 104-U); space in suspect leaking tanks (107-B, 110-B, 200-B, 101-BX, 101-C, 111-C, 104-S, 114-SX, 101-TY, 112-U); space in tanks with less than 50,000 gallons reserve; space in special purpose tanks for in-tank solidification (102-BY, 112-BY, 116-TX, 117-TX), for B Plant IX Feed (105-C), and for sludge wash solution, PSS (106-C). Consists of reduction in the "Gross Useful Storage Capacity" of the boiling tank farm as follows:

Tank Farm

SX (Redox nonboiling type)	106-SX	Condensate Receiver
SX (Redox boiling type)	107, 108, 109, 111 112, 113, 115-SX	7,000 Tanks leak
A (Purex boiling type)	105-A	1,000 Tanks leak

(2) For A, AX, and AY Farms, the effective volume and reserve volume does not represent actual gallons of waste, but rather the "useful" space as adjusted by tank production capacity or waste characteristics.

(3) One tank under construction.

(4) Under construction.

UNCLASSIFIED

ARRH-CD-133C

PERFORMANCE OF WASTE SOLIDIFICATION SYSTEM

(THOUSANDS OF GALLONS)

	242-S (3) EVAPORATOR	ITS-1 & 2 (1)	242-T EVAPORATOR	REDOX (4)	ITS - 1 (1)	ITS-2 (1)	B PLANT CELL 23 (2)
Space Recovered this Quarter	2,904	---	496	---	---	---	---
Previous Space Recovered	11,466	7,965	22,073	12,393	11,876	15,295	1,185
Total Space Recovered to Date	14,370	7,965	22,569	12,393	11,876	15,295	1,185
AVERAGE RATE THIS QUARTER (GPM)	21.9	---	3.74	---	---	---	---
AVERAGE RATE SINCE START-UP (GPM)	29.8	5.50	4.86	4.78	3.60	8.64	8.75

(3) Data for 242-S are from November 1, 1973 to date.

(4) Data for Redox are from startup to June 30, 1972.

(1) IN-TANK SOLIDIFICATION UNIT 1 WAS CONVERTED FROM AN EVAPORATOR TO A COOLER FOR IN-TANK SOLIDIFICATION UNIT 2 ON AUGUST 24, 1971. DATA FOR ITS-1 AND ITS-2 ARE FROM START-UP TO JUNE 30, 1971. DATA FOR ITS-1 & 2 ARE FROM JUNE 30, 1971 TO June 30, 1974.

(2) DATA FOR B PLANT CELL 23 ARE FROM START-UP TO FEBRUARY 2, 1968.

UNCLASSIFIED

ARM-CD-133C