Atlantic Richfield Hanford Company
Richland, Washington 99352

ARH-CD-133B

OPERATIONS DIVISION WASTE STATUS SUMMARY
APRIL 1, 1974 THROUGH JUNE 30, 1974

J. D. Anderson

August 12, 1974

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

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.

MASTER

23

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.

OPERATIONS DIVISION WASTE STATUS SUMMARY
APRIL 1, 1974 THROUGH JUNE 30, 1974

J. D. Anderson

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

August 12, 1974

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

UNCLASSIFIED

ARH-CD-133B

SUMMARY FOR QUARTER ENDING June 30 19 74

WASTE RECEIVED

FROM	TO	TYPE WASTE	GALLONS	
			SELF-BOILING	NON-BOILING
AR Vault	TK-104-A	High Level	338,000	
AR Vault	TK-106-A	High Level	7,000	
B Plant	TK-106-A	High Level	387,000	
311-ER Catch Tank	TK-104-BX	Low Level		14,000
Purex	TK-104-C	Low Level		16,000
234-5 Z	TK-118-TX	Low Level		138,000
BNW	TK-107-U	Low Level		129,000
UNI	TK-107-U	Low Level		343,000
T Plant	TK-107-U	Decontamination		65,000
222-S	TK-110-U	Laboratory		29,000
Water	Various	Flush and Pit Water		1,835,000
TOTAL			732,000	2,569,000

WASTE EVAPORATED

FACILITY	GALLONS SPACE RECOVERED	
	QUARTER ENDING 3-31-74	QUARTER ENDING 6-30-74
In-Tank Solidification Units 1 & 2	-50,000	-9,000
242-T Waste Evaporator	-62,000	344,000
242-S Evaporator-Crystallizer	5,850,000	4,204,000
TOTAL	5,738,000	4,539,000

WASTE INVENTORY

	QUARTER ENDING 3-31-74	QUARTER ENDING 6-30-74
SELF-BOILING WASTE	4,318,000 Including	4,998,000 Including
GALLONS OF SUPERNATANT	261,000 Water & 105,000 IX	261,000 Water & 17,000 IX
GALLONS OF SOLIDS	471,000	408,000
TOTAL STORAGE RESERVE (gallons)	1,909,000	1,258,000
NON-BOILING WASTE		
GALLONS OF SUPERNATANT	31,780,000	27,411,000
GALLONS OF SOLIDS	24,374,000	25,639,000 (1)
AVAILABLE USEFUL STORAGE RESERVE (GALLONS)	11,213,000	13,527,000

(1) Includes 1,202,000 gallon increase in solids in ITS, 242-S, and 242-T bottoms tanks and a gain of 48,000 gallons in other tanks.

UNCLASSIFIED

ARH-CD-133B

OVERALL STATUS OF WASTE FARMS ON June 30 19 74

TYPE OF WASTE*		GAL. IN STORAGE	GAL. OF UNFILLED SPACE	TOTAL GALLONS
PUREX		132,000	-0-	132,000
REDOX		1,746,000	-0-	1,746,000
B PLANT(HIGH LEVEL)		2,989,000 (1)	1,258,000	4,247,000
B PLANT (LOW LEVEL)		833,000	-0-	833,000
ION EXCHANGE (PUREX SUPERNATANT)		3,016,000	2,871,000	5,887,000
ION EXCHANGE (REDOX SUPERNATANT)		4,370,000	-0-	4,370,000
COATING	EAST	491,000	380,000	871,000
	WEST	641,000	-0-	641,000
BNW AND SSW	EAST	873,000	-0-	873,000
	WEST	690,000	1,208,000	1,898,000
OWW	EAST	220,000	63,000	283,000
	WEST	510,000	699,000	1,209,000
FIRST CYCLE	EAST	85,000	-0-	85,000
	WEST	222,000	-0-	222,000
DW	East	135,000	-0-	135,000
	West	277,000	349,000	626,000
SECOND CYCLE	WEST	813,000	-0-	813,000
PSS	EAST	2,469,000	-0-	2,469,000
TBP	East	41,000	-0-	41,000
	West	19,000	-0-	19,000
EVAPORATOR BOTTOMS	EAST	4,189,000	2,600,000	6,789,000
	WEST	7,648,000	5,357,000	13,005,000
SOLIDS	EAST	10,795,000	-0-	10,795,000
	WEST	15,252,000	-0-	15,252,000
UNAVAILABLE FREE SPACE			(22,439,000)	(22,439,000)
TOTAL		58,456,000	(37,224,000) (2) 14,785,000	(95,680,000) (2) 73,241,000

* SEE PAGE 9 FOR CODE.

(1) Includes 205,000 water in 102-AY.
(2) Includes unavailable free space.

UNCLASSIFIED

DATA IN 10³ GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	GALLONS				RESERVE		REMARKS
		CAP.	IN STORAGE			GAL.	TYPE WASTE	
			TOTAL	LIQUID	SOLIDS			
B FARM								
101	BL(EB)	530	440	331	109	90	EB	64 to 106-BX
102	EB-BL-IX	530	511	388-36-54	53	19	U	4 from 107-B, 8 from 110-B
103	BNW-N-LW(1)	530	489	35-48-18(1)	52	41	U	
104	EB	530	407	7	400	123	EB	
105	---	530	490	0	490	40	U	
106	244-BNW	530	229	27-55	147	301	EB	
107	---	530	193	0	193	337	U	Suspect leaker, 4 to 102-B
108	EB	530	156	42	114	374	EB	39 from 107-BY
109	224-IX-EB	530	393	18-134-105	136	137	EB	2 from 201-B, 103 from 107-BY
110	---	530	282	0	282	248	U	Suspect leaker, 8 to 102-B
111	---	530	249	0	249	281	IX	
112	EB	530	328	314	14	202	EB	ITS bottoms & recycle (2), 23 from 107-BY
TOTAL		6360	4,167	1,948	2,219			
201	224	55	31	5	26	24	U	Suspect leaker, 2 from 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	183	40	143			
C FARM								
101	P	530	128	47	81	402	U	Suspect leaker.
102	CW-OWW	530	467	43-125	299	63	OWW	
103	BNW-N-LW(3)	530	343	51-86-31(3)	90	187	CW	165 to 104-C
104	BNW-N-LW-B-CW-P	530	337	13-22-8-8-8-4	274	193	CW	16 from Purex, 165 from 103-C, 65 from 111-C, 13 water, 358 to 107-S
105	PSS	530	442	330	112	88	U	
106	PSS	530	250	125	125	280	U	
107	BNW-N-LW-CW-DW-IX-EB	530	514	72-128-6-27-19-51-5	206	16	U	
108	BNW-N-LW(4)	530	515	27-38-15(4)	76	15	U	
109	CW-IX	530	504	67-342	95	26	U	
110	CW-OWW-EB-RIX	530	376	75-80-5-16	200	154	IX	
111	CW	530	114	38	76	416	U	Suspect leaker, 65 to 104-C
112	CW-IX	530	530	81-329	120	0	U	
TOTAL		6360	4,520	2,766	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-IX-TBP 96-18-64-135-23

(2) 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.

(3) P-B-CW-DW-IX-PL 15-33-30-1-2-4

(4) CW-DW-IX-TBP-R-OWW 43-51-156-18-77-14

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, 115 to 104-BX
102	---	530	41	0	41	489	None	Tank leaks Contains diatomaceous earth
103	IX-PL-BNW(1)	530	504	187-43-24(1)	46	26	U	
104	BL-IX	530	277	42-129	106	253	IX	14 from 311-ER catch tank, 115 from 101-BX
105	EB-IX	530	411	156-203	52	119	IX	313 from 112-BX
106	BL-CW-OLW(2)	530	182	26-1-1(2)	10	348	EB	64 from 101-B, 2 from 108-BX, 277 to 107-S
107	IX	530	539	163	376	-9	U	
108	---	530	34	0	34	496	None	Tank leaks, 2 to 106-BX
109	---	530	211	0	211	319	IX	
110	EB	530	500	212	288	30	U	ITS bottoms & recycle (3)
111	EB	530	404	170	234	126	EB	ITS bottoms & recycle (3)
112	---	530	216	0	216	314	EB	313 to 105-BX
TOTAL		6360	3,365	1,705	1,660			
BY FARM								
101	EB	750	746	328	418	4	U	ITS bottoms & recycle (3)
102	EB	750	629	421	208	121	U	ITS bottoms & recycle (3), 12 to 110-BY
103	EB	750	464	6	458	286	None	Tank leaks, 5 to 109-BY
104	EB	750	719	250	469	31	U	ITS bottoms & recycle (3)
105	EB	750	652	24	628	98	EB	ITS bottoms & recycle (3)
106	EB	750	701	207	494	49	U	ITS bottoms & recycle (3)
107	EB	750	492	48	444	258	EB	ITS bottoms & recycle (3)(4)
108	---	750	304	0	304	446	None	Tank leaks, 5 to 109-BY
109	EB	750	581	148	433	169	EB	ITS feed receiving tank (3)(5)
110	EB	750	690	413	277	60	EB	ITS bottoms & recycle (3), 12 from 102-BY
111	EB	750	711	569	142	39	U	ITS bottoms & recycle (3)
112	EB	750	702	371	331	48	U	ITS bottoms & recycle (3) 28 from 109-BY
TOTAL		9000	7,391	2,785	4,606			

* SEE PAGE 9 FOR CODE

(1) N-LW-CW

69-75-60

(2) IX

144

(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) 39 to 108-B, 103 to 109-B, 23 to 112-B

(5) 5 from 103-BY, 5 from 108-BY, 28 to 112-BY, 15 water, 0 evaporated

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	BL-IX-EB- RIX-R	530	313	2-14-43- 165-52	37	217	EB	
102	BL-IX-EB(1)	530	60	2-12-3(1)	24	470	IX	475 to 110-S
103	BL-IX-EB(2)	530	165	12-69-10(2)	18	365	IX	354 to 110-S
104	---	530	483	0	483	47	U	
105	DW-BL-IX	530	113	1-3-9	100	417	IX	425 to 110-S
106	CW-DW-BL-IX	530	60	2-2-4-13	39	470	None	Tank leaks.
107	IX	530	399	290	109	131	IX	
108	BL-IX	530	168	28-34	106	362	IX	366 to 110-S
109	BL-IX-BNW	530	155	4-5-8	138	375	BNW	14 from 111-T, 396 to 110-S
110	224-2C	530	475	182	293	55	DW	59 to 110-S
111	244-2C	530	490	257	233	40	U	28 to 110-S, 14 to 109-T
112	DW-CW-BL-IX	530	236	89-9-25-81	32	294	DW	273 to 110-S
TOTAL		6360	3,117	1,505	1,612			
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	97	54	43	433	EB	
103	R	530	111	79	32	419	EB	
104	---	530	127	0	127	403	None	Tank leaks. Contains diatomaceous earth.
105	R-CW	530	87	21-34	32	443	EB	
106	R	530	86	60	26	444	EB	
107	BNW-N-DW	530	388	51-237-10	90	142	BNW	129 from BNW, 343 from UNI, 65 from T Plant, 168 from 110-U, 605 to 110-S
108	N-BNW-DW(3)	530	101	35-9-14(3)	29	429	BNW	
109	CW-EB	530	127	4-75	48	403	EB	
110	LW-CW	530	268	61-24	183	262	LW	29 from 222-S, 168 to 107-U
111	R	530	148	122	26	382	EB	
112	R	530	76	16	60	454	U	Suspect leaker
TOTAL		6360	1,675	939	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	51	35-15	1	4	U	
TOTAL		220	197	184	13			

* SEE PAGE 9 FOR CODE

(1) RIX-R-CW
 (2) RIX-R-CW
 (3) CW-EB

10-3-6
 36-11-9
 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-IC-TBP	750	720	187-230- -222-8	73	30	U	
102	EB	750	693	507	186	57	EB	242-T bottoms & recycle (1)
103	EB	750	729	726	3	21	U	242-T bottoms & recycle (1)
104	BL-OWW-RIX- R-TBP	750	136	8-17- -16-70-7	18	614	EB	529 to 110-S
105	EB	750	710	211	499	40	U	242-T bottoms & recycle (1)
106	EB	750	693	425	268	57	EB	242-T bottoms & recycle (1)
107	R	750	675	651	24	75	EB	
108	EB	750	721	640	81	29	U	242-T bottoms & recycle (1)
109	EB	750	688	565	123	62	EB	8 from 111-T
110	EB	750	681	248	433	69	EB	242-T bottoms & recycle (1)
111	EB	750	722	333	389	28	U	242-T bottoms & recycle (1)
112	EB	750	682	23	659	68	EB	242-T bottoms & recycle (1)
113	EB	750	703	47	656	47	U	242-T bottoms & recycle (1)
114	EB	750	729	73	656	21	U	242-T bottoms & recycle (1)
115	EB	750	699	57	642	51	EB	242-T bottoms & 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	629	368	261	121	EB	138 from 234-5 Z, 62 from 102-TY, 10
TOTAL		13500	11,867	5,639	6,228			from 103-TY, 147 water, 491 evaporated
TY FARM								
101		750	202	0	202	548	U	Suspect leaker, 27 to 102-TY.
102	EB-BL-OWW(2)	750	706	464-38-78(2)	30	44	U	27 from 101-TY, 62 to 118-TX
103		750	197	0	197	553	None	Tank leaks, 10 to 118-TX
104	BL-OWW-RIX	750	51	9-15-14	13	699	OWW	
105		750	285	0	285	465	None	Tank leaks.
106		750	4	0	4	746	None	Tank leaks. Contains diatomaceous earth.
TOTAL		4500	1,445	714	731			

* 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 72-4-20

UNCLASSIFIED

DATA IN 10³ GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE #	CAP.	GALLONS			RESERVE		REMARKS
			TOTAL	LIQUID	SOLIDS	GAL.	TYPE WASTE	
S FARM								
101	CW-LW-BNW-N-DW	750	588	23-59-63-167-32	244	162	EB	515 from 107-S, 2,192 from 110-S, 2 from 111-S, 2,748 to 102-S, 11 from 105-S
102	EB	750	685	634	51	65	EB	242-S feed tank (1)(2)
103	EB	750	640	603	37	110	EB	242-S bottoms & recycle (1)
104	R	750	307	66	241	443	U	Suspect leaker
105	---	750	549	0	549	201	EB	242-S bottoms & recycle (1)(3)
106	EB	750	584	148	436	166	EB	242-S bottoms & recycle (1)
107	DW-BL-IX	750	492	11-32-106	343	258	EB	358 from 104-C, 277 from 106-BX, 138 from 110-S, 752 from 111-SX, (4)
108	EB	750	718	133	585	32	U	242-S bottoms & recycle (1)
109	EB	750	672	184	488	78	EB	242-S bottoms & recycle (1)
110	DW-CW-BL-IX-244	750	686	118-13-44-107-273	131	64	EB	475 from 102-T, 354 from 103-T, 425 from 105-T, 366 from 108-T, (5)
111	EB	750	689	355	334	61	EB	242-S bottoms & recycle (1) 2 to 101-S
112	EB	750	713	115	598	37	U	242-S bottoms & recycle (1)
TOTAL		9000	7,323	3,286	4,037			
SX FARM								
101(NB)	EB-RIX	1000	923	21-436	466	77	EB	
102(NB)	EB-RIX	1000	956	152-745	59	44	U	30 from 106-SX
103(NB)	CW-OWW-R	1000	927	367-400-35	125	73	EB	
104(NB)	EB-RIX	1000	931	88-674	169	69	EB	
105	EB-RIX	1000	942	182-694	66	58	EB	2 from 111-SX
106(NB)	EB-RIX	1000	952	197-754	1	48	U	30 to 102-SX
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	951	698-221	32	49	U	
111	EB-RIX	1000	128	5-40	83	872	None	Tank leaks, 2 to 105-SX (6)
112	R	1000	108	73	35	892	None	Tank leaks.
113	---	1000	2	0	2	998	None	Tank leaks. Contains diatomaceous earth.
114	---	1000	200	0	200	800	U	Suspect leaker.
115	---	1000	8	0	8	992	None	Tank leaks
TOTAL		15000	7,537	5,782	1,755			

(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 Farm tanks.

(2) 2748 from 101-S, 1249 from 107-S, 786 from 110-S, 1660 water, 5864 evaporated.

(3) 11 to 101-S, 12 to 110-S

(4) 515 to 101-S, 1249 to 102-S

(5) 396 from 109-T, 59 from 110-T, 28 from 111-T, 273 from 112-T, 529 from 104-TX, 605 from 107-U, 12 from 105-S, 2192 to 101-S, 786 to 102-S, 138 to 110-S

* SEE PAGE 9 FOR CODE

** NB- TANK NOT EQUIPPED FOR BOILING WASTE (6) 752 to 107-S

UNCLASSIFIED

ARH-CD-133B

DATA IN 10³ GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	GALLONS				RESERVE		REMARKS
		CAP.	IN STORAGE			GAL.	TYPE WASTE	
			TOTAL	LIQUID	SOLIDS			
A FARM								
101	P-B	1000	962	19-910	33	38	U	Sluicing completed in March 1969.
102	Water	1000	56	56	0	944	B	Sluicing completed in February 1974.
103	Water	1000	41	19	22	959	U	Sluicing.
104	PSS	1000	806	726	80	194	U	Sluicing completed in October 1969(1)
105	IX	1000	50	17	33	950	None	Tank leaks. No sluicing activity.
106	B	1000	686	686	0	314	B	Sluicing completed in January 1974.
TOTAL		6000	2,601	2,433	168			387 from B Plant, 7 from AR Vault.
AX FARM								
101	PSS	1000	714	637	77	286	U	98 to 103-AX
102	B	1000	151	101	50	849	U	
103	PSS	1000	653	584	69	347	U	98 from 101-AX
104	PSS	1000	111	67	44	889	U	
TOTAL		4000	1,629	1,389	240			
AY FARM								
101	B	1000	971	971	0	29	U	
102	Water	1000	205	205	0	795	U	Spare
TOTAL		2000	1,176	1,176	0			
AZ FARM								
101	---	1000	---	---	---	---	U	Spare
102	---	1000	---	---	---	---	U	Under construction
TOTAL		2000	---	---	---	---		

(1) 338 from AR Vault.

* 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
 1C - FIRST CYCLE WASTE
 2C - SECOND CYCLE WASTE
 224 - 224 BLDG WASTE
 N - 100-N Area Waste
 LW - 222-S Laboratory Waste

TANK FARM SUMMARY

(THOUSANDS OF GALLONS)

QUARTER ENDING June 30 19 74

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	643	643	0
	60	5	530	530	31,800	26,471	16,844	9,627
TX, TY, BY, S	48	5	750	750	36,000	31,649	28,026	3,623
SX (REDOX NON-BOILING TYPE)	5	0	1000	1000	5,000	4,908	4,689	219
SX (REDOX BOILING TYPE)	10	7	1000	1000	10,000	2,906	2,848	58
A (PUREX BOILING TYPE)	6	1	1000	1000	6,000	3,859	2,601	1,258
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	--	1000	1000	--	--	--	--

(1) Storage capacity in the nonboiling tank farms after disallowing: 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, 201-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

ARH-CD-133B
PAGE-

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	4,204	-9	344	---	---	---	---
Space Recovered	7,262	7,974	21,729	12,393	11,876	15,295	1,185
Space Recovered	11,466	7,965	22,073	12,393	11,876	15,295	1,185
AVERAGE RATE THIS QUARTER (GPM)	32.8	-0.07	2.63	---	---	---	---
AVERAGE RATE SINCE START-UP (GPM)	32.9	5.50	4.90	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-133B
PAGE 11