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RICHLAND, WASHINGTON

TITLE AND AUTHOR

MANUFACTURING AND WASTE MANAGEMENT DIVISION
WASTE STATUS SUMMARY
OCTOBER 1, 1973 THROUGH DECEMBER 31, 1973

ENTERED

J. D. Anderson

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54-6100-149 (2-69)
AEC-RL RICHLAND, WASH.

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MANUFACTURING AND WASTE MANAGEMENT DIVISION
WASTE STATUS SUMMARY
OCTOBER 1, 1973 THROUGH DECEMBER 31, 1973

J. D. Anderson

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

March 25, 1974

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

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SUMMARY FOR QUARTER ENDING December 31 19 73

WASTE RECEIVED

FROM	TO	TYPE WASTE	GALLONS SELF-BOILING	GALLONS NON-BOILING
B Plant	TK-101-A	High Level	101,000	
Purex	TK-101-A	High Level	5,000	
B Plant	TK-103-A	High Level	71,000	
Purex	TK-104-C	Low Level		31,000
002-BXR	TK-103-BX	Low Level		11,000
T Plant	TK-107-U	Decontamination		112,000
BNW	TK-107-U	Low Level		87,000
UNI	TK-107-U	Low Level		101,000
222-S	TK-110-U	Laboratory Waste		16,000
234-5-Z	TK-118-TX	Low Level		86,000
Water	Various	Flush and Pit Water		750,000
		TOTAL	177,000	1,194,000

WASTE EVAPORATED

FACILITY	GALLONS SPACE RECOVERED QUARTER ENDING 9-30-73	GALLONS SPACE RECOVERED QUARTER ENDING 12-31-73
In-Tank Solidification Units 1 & 2	-75,000	-75,000
242-T Waste Evaporator	360,000	86,000
242-S Evaporator-Crystallizer	---	1,412,000
TOTAL	285,000	1,423,000

WASTE INVENTORY

	QUARTER ENDING 9-30-73	QUARTER ENDING 12-31-73
SELF-BOILING WASTE		
GALLONS OF SUPERNATANT	3,922,000 Including 228,000 Water & 217,000 IX	4,112,000 Including 276,000 Water & 282,000 IX
GALLONS OF SOLIDS	489,000	492,000
TOTAL STORAGE RESERVE (gallons)	66,000	100,000
NON-BOILING WASTE		
GALLONS OF SUPERNATANT	39,459,000	37,683,000
GALLONS OF SOLIDS	21,886,000	22,692,000[1]
AVAILABLE USEFUL STORAGE RESERVE (GALLONS)	10,725,000	7,264,000

[1] Includes 701,000-gallon increase in solids in ITS, 242-S, and 242-T bottom tanks and a gain of 105,000 gallons in other tanks.

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OVERALL STATUS OF WASTE FARMS ON December 31 19 73

TYPE OF WASTE*		GAL. IN STORAGE	GAL. OF UNFILLED SPACE	TOTAL GALLONS
PUREX		177,000	-0-	177,000
REDOX		7,434,000	512,000	7,946,000
B PLANT(HIGH LEVEL)		2,266,000[1]	100,000	2,366,000
B PLANT (LOW LEVEL)		1,440,000	-0-	1,440,000
ION EXCHANGE (PUREX SUPERNATANT)		5,075,000	1,258,000	6,333,000
ION EXCHANGE (REDOX SUPERNATANT)		5,595,000	-0-	5,595,000
COATING	EAST	567,000	232,000	799,000
	WEST	1,059,000	-0-	1,059,000
BNW, N, SSW, and LW	EAST	950,000	-0-	950,000
	WEST	637,000	585,000	1,222,000
OWW	EAST	228,000	64,000	292,000
	WEST	869,000	-0-	869,000
FIRST CYCLE	EAST	85,000	-0-	85,000
	WEST	589,000	-0-	589,000
DW	East	136,000	-0-	136,000
	West	403,000	-0-	403,000
SECOND CYCLE	WEST	640,000	-0-	640,000
PSS	EAST	1,832,000	-0-	1,832,000
TBP	East	41,000	-0-	41,000
	West	86,000	-0-	86,000
EVAPORATOR BOTTOMS	EAST	4,471,000	2,279,000	6,750,000
	WEST	7,215,000	2,334,000	9,549,000
SOLIDS	EAST	10,368,000	---	10,368,000
	WEST	12,816,000	---	12,816,000
UNAVAILABLE FREE SPACE			(23,337,000)	(23,337,000)
TOTAL		64,979,000	(30,701,000)[2] 7,364,000	(95,680,000)[2] 72,343,000

* SEE PAGE 9 FOR CODE.

[1] Includes 219,000 water in 102-AY.
[2] Includes unavailable free space.

BM-6500-034.3 (9-72)

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DATA IN 10^3 GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	GALLONS CAP.	IN STORAGE TOTAL	IN STORAGE LIQUID	IN STORAGE SOLIDS	RESERVE GAL.	RESERVE TYPE WASTE	REMARKS
B	FARM							
101	BL(EB)	530	511	402	109	19	U	
102	EB-BL-IX	530	497	377-35-52	33	33	U	
103	BNW-N-LW[1]	530	489	35-48-18[1]	52	41	U	307 from 104-C, 70 to 109-B
104	EB	530	404	4	400	126	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
108	---	530	111	0	111	419	EB	
109	IX	530	268	132	136	262	EB	70 from 103-B
110	---	530	282	0	282	248	U	Suspect leaker
111	---	530	249	0	249	281	IX	
112	EB	530	305	291	14	225	EB	ITS bottoms and recycle[2]
	TOTAL	6360	4,028	1,812	2,216			
201	224	55	33	7	26	22	U	Suspect leaker
202	224	55	56	29	27	-1	U	
203	224	55	56	12	44	-1	U	
204	224	55	56	10	46	-1	U	
	TOTAL	220	201	58	143			
C	FARM							
101	P	530	131	50	81	399	U	Suspect leaker
102	CW-OWW	530	466	43-124	299	64	OWW	
103	BNW-N-LW[3]	530	392	73-124-51[3]	90	138	CW	
104	P-B-CW-N-BNW-DW[4]	530	436	34-77-1-28-15-2[4]	274	94	CW	31 from Purex, 79 from 101-A, 367 from 107-U, 307 to 103-B, 213 to 107-C
105	PSS	530	234	122	112	296	U	
106	PSS	530	238	113	125	292	U	
107	BNW-N-LW-CW-DW-IX-EB	530	513	72-127-6-27-19-51-5	206	17	U	213 from 104-C
108	BNW-N-LW[5]	530	516	27-38-15	76	14	U	
109	CW-IX	530	504	67-342	95	26	U	
110	CW-OWW-EB-RIX	530	376	82-88-5-18	183	154	IX	
111	CW	530	171	95	76	359	U	Suspect leaker
112	CW-IX	530	531	81-330	120	-1	U	
	TOTAL	6360	4,508	2,771	1,737			
201	---	55	3	2	1	52	U	
202	---	55	1	1	0	54	U	
203	SSW	55	7	4	3	48	U	
204	SSW	55	44	43	1	11	U	
	TOTAL	220	55	50	5			

* SEE PAGE 9 FOR CODE

[1] R-CW-DW-IX-TBP 96-18-64-135-23

[2] See footnote (3) on page 5

[3] CW-PL 48-6

[4] IX-EB 4-1

[5] CW-DW-IX-TBP-R-OWW 43-51-157-18-77-14

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DATA IN 10^3 GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	GALLONS CAP.	IN STORAGE TOTAL	IN STORAGE LIQUID	IN STORAGE SOLIDS	RESERVE GAL.	RESERVE TYPE WASTE	REMARKS
BX	FARM							
101	BL-IX	530	157	38-73	46	373	U	Suspect leaker.
102	---	530	41	0	41	489	None	Tank leaks. Contains diatomaceous earth
103	IX-PL-BNW[1]	530	503	186-43-24[1]	46	27	U	11 from 002-BXR.
104	IX	530	501	439	62	29	U	
105	IX	530	481	429	52	49	U	
106	BL-CW-OWW[3]	530	348	5-2-2[2]	10	182	EB	
107	IX	530	539	163	376	-9	U	
108	IX	530	71	37	34	459	U	Suspect leaker.
109	---	530	211	0	211	319	IX	2 to 106-BX
110	EB	530	499	261	238	31	U	ITS bottoms & recycle[3]
111	EB	530	321	193	128	209	EB	ITS bottoms & recycle[3]
112	EB-IX	530	496	141-139	216	34	U	
	TOTAL	6360	4,168	2,708	1,460			
BY	FARM							
101	EB	750	739	321	418	11	U	ITS bottoms & recycle[3]
102	EB	750	635	427	208	115	U	ITS bottoms & recycle[3]
103	EB	750	464	6	458	286	None	Tank leaks. 4 to 109-BY
104	EB	750	718	249	469	32	U	ITS bottoms & recycle[3]
105	EB	750	657	29	628	93	EB	ITS bottoms & recycle[3]
106	EB	750	692	198	494	58	EB	ITS bottoms & recycle[3]
107	EB	750	659	484	175	91	EB	ITS bottoms & recycle[3]
108	---	750	304	0	304	446	None	Tank leaks.
109	EB	750	587	176	411	163	EB	ITS feed receiving tank[3-4]
110	EB	750	673	396	277	77	EB	ITS bottoms & recycle[3]
111	EB	750	677	535	142	73	EB	ITS bottoms & recycle[3]
112	EB	750	703	372	331	47	U	ITS bottoms & recycle[3]
	TOTAL	9000	7,508	3,193	4,315			

*SEE PAGE 9 FOR CODE

[1] N-LN-CN 69-75-60

[2] IX 329

[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] 86 water, 4 from 103-BY, 11 evaporated.

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DATA IN 10^3 GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	GALLONS CAP.	IN STORAGE TOTAL	IN STORAGE LIQUID	IN STORAGE SOLIDS	RESERVE GAL.	RESERVE TYPE WASTE	REMARKS
T FARM								
101	BL-IX-EB-RIX-R	530	312	2-14-43-164-52	37	218	EB	
102	BL-IX-EB[1]	530	534	29-167-40[1]	24	-4	U	
103	BL-IX-EB[2]	530	519	40-234-33[2]	18	11	U	
104	---	530	483	0	483	47	U	
105	DW-BL-IX	530	537	33-95-309	100	-7	U	
106	CW-DW-BL-IX	530	64	2-2-5-16	39	466	None	Tank leaks.
107	IX	530	399	290	109	131	IX	
108	BL-IX	530	535	193-236	106	-5	U	
109	BL-IX-BNW	530	537	95-117-187	138	-7	U	
110	224-2C	530	531	238	293	-1	U	
111	224-2C	530	534	301	233	-4	U	
112	DW-CW-BL-IX	530	505	205-22-59-187	32	25	U	
	TOTAL	6360	5,490	3,878	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	72	32	40	458	None	Tank leaks.
102	R	530	475	432	43	55	R	
103	R	530	537	505	32	-7	U	
104	---	530	127	0	127	403	None	Tank leaks. Contains diatomaceous earth
105	R-CW	530	506	177-297	32	24	U	
106	R	530	506	480	26	24	U	
107	BNW-N-DW-EB-R	530	485	89-86-105-35-80	90	45	U	87 from BNW, 101 from UNI, 112 from T Plant, 298 from 106-S[3]
108	N-BNW-DW[4]	530	93	30-8-13[4]	29	437	BNW	335 to 101-S
109	CW-EB	530	330	16-266	48	200	EB	
110	LW-CW	530	382	112-87	183	148	LW	16 from 222-S
111	R	530	148	122	26	382	R	
112	R	530	76	28	48	454	U	Suspect leaker.
	TOTAL	6360	3,737	3,013	724			
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 147-45-82

[2] RIX-R-CW 124-38-32

[3] 131 from 107-S, 14 water, 367 to 104-C, 273 to 101-S

[4] CW-EB 1-12

DATA IN 10^3 GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	GALLONS CAP.	IN STORAGE TOTAL	IN STORAGE LIQUID	IN STORAGE SOLIDS	RESERVE GAL.	RESERVE TYPE WASTE	REMARKS
TX FARM								
101	BL-IX	750	482	184-225	73	268	IX	101 to 118-TX
102	EB	750	695	509	186	55	EB	242-T bottoms & recycle[1]
103	EB	750	726	723	3	24	U	242-T bottoms & recycle[1]
104	BL-OWW-RX-R-TBP	750	661	46-94-87-376-40	18	89	EB	
105	EB	750	717	218	499	33	U	242-T bottoms & recycle[1]
106	EB	750	688	420	268	62	EB	242-T bottoms & recycle[1]
107	R	750	675	651	24	75	R	
108	EB	750	721	640	81	29	U	242-T bottoms & recycle[1]
109	1C-TBP	750	733	589-21	123	17	U	
110	EB	750	684	251	433	66	EB	242-T bottoms & recycle[1]
111	EB	750	728	339	389	22	U	242-T bottoms & recycle[1]
112	EB	750	707	48	659	43	U	242-T bottoms & recycle[1]
113	EB	750	703	47	656	47	U	242-T bottoms & recycle[1]
114	EB	750	730	74	656	20	U	242-T bottoms & recycle[1]
115	EB	750	696	54	642	54	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	711	450	261	39	U	86 from 234-5, 101 from 101-TX, 9 from 103-TY, 217 water, 302 evaporated
	TOTAL	13500	12,314	6,086	6,228			
TY FARM								
101	TBP-R	750	282	25-108	149	468	U	Suspect leaker.
102	EB-BL-OWW-RIX	750	739	505-41-85-78	30	11	U	
103	BL-OWW-RIX	750	206	1-4-4	197	544	None	Tank leaks. 9 to 118-TX
104	BL-OWW-RIX	750	730	170-284-263	13	20	U	
105	---	750	285	0	285	465	None	Tank leaks.
106	---	750	4	0	4	746	None	Tank leaks. Contains diatomaceous waste.
	TOTAL	4500	2,246	1,568	678			

* 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.

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DATA IN 10^3 GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE *	GALLONS CAP.	GALLONS IN STORAGE TOTAL	GALLONS IN STORAGE LIQUID	GALLONS IN STORAGE SOLIDS	RESERVE GAL.	RESERVE TYPE WASTE	REMARKS
S FARM								
101	N-BNW-DW CW-EB	750	426	99-26-45-4-41	211	324	EB	273 from 107-U, 335 from 108-U, 926 to 102-S
102	EB	750	577	526	51	173	EB	242-S feed tank[1,2]
103	EB	750	549	512	37	201	EB	242-S bottoms & recycle[1,3]
104	R	750	307	66	241	443	U	Suspect leaker
105	EB	750	365	116	249	385	EB	242-S bottoms & recycle[1]
106	EB	750	657	273	384	93	EB	242-S bottoms & recycle[1,4]
107	R-EB	750	686	69-324	293	64	EB	103 from 103-S, 4 water, 54 to 102-S, 131 to 107-U
108	R	750	761	756	5	-11	U	
109	R	750	771	758	13	-21	U	
110	R	750	786	673	113	-36	U	7 from 106-S
111	R	750	766	627	139	-16	U	
112	R	750	792	786	6	-42	U	
TOTAL		9000	7,443	5,701	1,742			
SX FARM								
101(NB)**	EB-RIX	1000	913	20-427	466	87	EB	
102(NB)	EB-RIX	1000	927	146-722	59	73	EB	
103(NB)	CW-OWW-R	1000	929	367-402-35	125	71	EB	
104(NB)	EB-RIX	1000	937	90-678	169	63	EB	
105	EB-RIX	1000	944	182-696	66	56	EB	
106(NB)	EB-RIX	1000	936	193-742	1	64	U	
107	---	1000	110	0	110	890	None	Tank leaks
108	---	1000	142	0	142	858	None	Tank leaks
109	R	1000	256	67	189	744	None	Tank leaks
110	RIX-R	1000	969	712-225	32	31	U	
111	EB-RIX	1000	895	85-733	77	105	IX	
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	6	0	6	994	None	Tank leaks
TOTAL		15000	8,274	6,595	1,679			

[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] 926 from 101-S, 54 from 107-S, 428 water, 1,839 evaporated

[3] 41 from 242-S, 29 to 106-S, 103 to 107-S

[4] 29 from 103-S, 1 water, 7 to 110-S, 298 to 107-U

* SEE PAGE 9 FOR CODE

** NB- TANK NOT EQUIPPED FOR BOILING WASTE

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DATA IN 10^3 GALLONS

STATUS OF WASTE FARMS

TANK	TYPE WASTE*	GALLONS CAP.	IN STORAGE TOTAL	IN STORAGE LIQUID	IN STORAGE SOLIDS	RESERVE GAL.	RESERVE TYPE WASTE	REMARKS
A FARM								
101	P-B	1000	900	19-865	16	100	B	101 from B Plant, 5 from Purex, 79 to 104-C
102	Water	1000	30	15	15	970	U	Sluicing
103	P-IX	1000	392	25-265	102	608	U	71 from B Plant
104	PSS	1000	837	757	80	163	U	Sluicing completed in October 1969[1]
105	IX	1000	50	17	33	950	None	Tank leaks. No sluicing activity.
106	Water	1000	48	42	6	952	U	Sluicing
	TOTAL	6000	2,257	2,005	252			
AX FARM								
101	PSS	1000	329	252	77	671	U	217 from 104-A
102	B	1000	129	79	50	871	U	
103	PSS	1000	575	506	69	425	U	
104	PSS	1000	126	82	44	874	U	
	TOTAL	4000	1,159	919	240			
AY FARM								
101	B	1000	969	969	0	31	U	
102	Water	1000	219	219	0	781	U	
	TOTAL	2000	1,188	1,188	0			
AZ FARM								
101	---	1000	---	---	---	---	U	Under construction.
102	---	1000	---	---	---		U	Under construction.
	TOTAL	2000						

[1] 169 from AR Vault, 217 to 101-AX

* CODE:

B - B PLANT HIGH LEVEL WASTE
BL - B PLANT LOW LEVEL WASTE
BNW - BATTELLE-NORTHWEST WASTE
CW - COATING WASTE
DW - DECONTAMINATION WASTE
EB - EVAPORATOR BOTTOMS
IX - ION EXCHANGE WASTE
OWW - ORGANIC WASH WASTE
P - PUREX WASTE
PSS - SLUDGE WASH WASTE
R - REDOX WASTE
RIX - ION EXCHANGE WASTE FROM REDOX SUPERNATENT
SIX - ION EXCHANGE WASTE FROM SLUDGE SUPERNATANT (PSS)
SSW - SEMIWORKS WASTE
TBP - TBP WASTE
U - UNAVAILABLE FREE SPACE
1C - FIRST CYCLE WASTE
2C - SECOND CYCLE WASTE
224 - 224 BLDG WASTE
PSS - SLUDGE WASH WASTE

TANK FARM SUMMARY

(THOUSANDS OF GALLONS)

QUARTER ENDING Dec. 31 19 73

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	659	659	0
	60	4	530	530	31,800	26,276	21,931	4,345
TX, TY, BY, S	48	5	750	750	36,000	31,975	29,511	2,464
SX (REDOX NON-BOILING TYPE)	5	0	1000	1000	5,000	4,936	4,642	294
SX (REDOX BOILING TYPE)	10	6	1000	1000	10,000	3,793	3,632	161
A (PUREX BOILING TYPE)	6	1	1000	1000	6,000	5,000	4,900	100
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	---	1000	1000	---	---	---	---

[1] Storage capacity in the nonboiling tank farms after disallowing: Space in leaking tanks (102-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, 108-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		Gallons Reduction	Reason
SX (Redox nonboiling type)	106-SX	1,000	Condensate Receiver
SX (Redox boiling type)	107, 108, 109, 112, 113, 115-SX	6,000	Tanks leak
A (Purex boiling type)	105-A	1,000	Tank leaks

[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] Under construction.

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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	1,412	-75	86	---	---	---	---
Previous Space Recovered	---	8,099	21,705	12,393	11,876	15,295	1,185
Total Space Recovered to Date	1,412	8,024	21,791	12,393	11,876	15,295	1,185
AVERAGE RATE THIS QUARTER (GPM)	16.0	-0.57	0.65	---	---	---	---
AVERAGE RATE SINCE START-UP (GPM)	16.0	6.09	5.13	4.78	3.60	8.64	8.75

[3] 242-S Evaporator-Crystallizer went hot on November 1, 1973 at 1841 hours.

[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 SOLIDIFACTION 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 DATE.

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

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