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HANFORD ATOMIC PRODUCTS OPERATION - RICHLAND, WASHINGTON

HW--89085

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TITLE

SELECTED MONTHLY OPERATING DATA FOR B AND T PLANTS, REDOX
AND PUREX (1944-1972)

ISSUING FILE

AUTHOR

Compiled by: S.P. Gydesen

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HW-89085

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SELECTED MONTHLY OPERATING DATA FOR B AND T PLANTS, REDOX AND PUREX (1944-1972)

Compiled by

S.P. Gydesen

April 1992

Distribution

1. Office of Scientific and Technical Information, Oak Ridge,
Tennessee
2. Richland Reading Room
3. C.M. Heeb
- 4-6. S.P. Gydesen
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FORWARD

The attached declassified pages (3-16) were extracted from HW-63089 "Chemical Processing Statistics - Book I, 1944-1972" Dave McDonald. The notebook was issued on December 15, 1959. The only information of potential interest and/or use to the Hanford Environmental Dose Reconstruction (HEDR) Project is the monthly data relative to operations at T Plant and Purex from startup to shutdown.

Declassified pages (17-27) were extracted from HW-63090 "Chemical Processing Statistics - Book II, 1945-1972" Dave McDonald, December 15, 1959. The only information in Book II of potential interest and/or use to HEDR is the monthly operating data which addresses B Plant and REDOX from startup to shutdown.

Since both of the notebooks from which these pages were extracted contain information on weapon part fabrication and shipment, they remain classified SECRET - RESTRICTED DATA. Individuals with the appropriate level of clearance and a need-to-know may contact the Westinghouse Hanford Company/Boeing Computer Service Richland - Information Resources Management if they wish to request access to these documents.

T-PLANT

(1) DISSOLVING

	(1) DISSOLVING		
* <u>COOLING</u> <u>DAYS</u>	<u>MWD/T</u>	<u>TONS</u>	
DEC. 1944	49	22	9
Jan 1945	39	27	4
Feb	53	42	7
Mar	53	65	6
Apr	41	105	20
May	35	157	30
JUNE	33	182	17
FY 1945			

STANDARD SECTION C. Revised And Changed to

Declassified

By Authority of PR-24

JE Gytter
Staff Info Spec, PNL

4/21/92

JULY	40	214	23
AUG	39	241	26
Sep	38	224	37
Oct	44	209	55
Nov	51	201	49
Dec	53	240	51
CY 1945			334

43

Jan. 1946	75	443	33
Feb	70	348	28
Mar	79	193	33
Apr	62	192	46
May	64	202	36
JUNE	87	279	30
FY 1946			447

July	81	209	16
Aug	86	208	10
Sep	70	203	7
Oct	69	207	7
Nov	64	202	26
Dec	67	206	19
CY 1946			291

73

*No. of cooling days is determined by totaling the cooling days for each run for the month & dividing by the number of runs.

(1) HW - 28198

T-PLANT

(AVG) DISSOLVING

COOLING
DAYS MWD/T TONS Pu
Kg's

JAN 1947	66	201	27
Feb	64	201	20
Mar	68	201	29
Apr	69	205	29
May	67	203	29
JUNE	72	205	14.5
FY 1947			233

JULY	81	203	33
AUG	85	202	23
SEP	83	205	23
OCT	87	203	21
NOV	96	204	29
DEC	96	200	29.5
CY 1947			306
	78		

JAN 1948	108	204	26
FEB	106	194	26
MAR	105	202	26
APR	101	202	29
MAY	108	202	29
JUNE	112	203	36.5
FY 1948			330

JULY	105	201	29
AUG	95	207	33
SEP	93	200	26
OCT	100	207	36
NOV	97	204	39
DEC	99	209	53.5
CY 1948			388
	102		

T-PLANT

DISSOLVING

Avg. cooling
DAYS

MWD/T

TONS

Jan 1949	96	211	49
Feb	93	208	46
Mar	93	221	63
Apr	95	229	25
May	94	248	51
June	94	270	165 ^c
FY 1949			430

July	96	288	30
Aug	95	275	26
Sept	94	323	26
Oct	98	378	33
Nov	95	358	26
Dec	95	396	32
CY 1949			393
	95		

Jan 1950	100	378	30
Feb	99	397	24
Mar	98	368	33
Apr	99	352	36
May	96	377	30
June	98	473	20 ¹²
FY 1950			346

July	90	427	38
Aug	72	408	49
Sept	74	422	43
Oct	80	416	43
Nov	83	537	36
Dec	75	255	42 ⁵
CY 1950			424
	89		

T-PLANT

DISSOLVING

	Avg. Cooling DAYS	MWD/T	TONS	PRD Kgs	PRD Kgs	W.L.
Jan. 1951	71	229	64			
Feb	72	414	43			
Mar	71	443	53			
Apr	54	414	53	19.01		
May	48	411	54	18.73		
June	47	415	43	17.45		
FY 1951			566			
July	49	516	30	13.15		
Aug	46	589	46	22.46		
Sept	48	569	36	18.27		
Oct	48	572	41	19.81		
Nov	51	584	52	26.40		
Dec	49	577	40	20.17		
CY 1951			500			
	55					
				Kgs PRD		
Jan. 1952	47	569	53	20.67		
Feb	50	587	26	17.31		
Mar	48	588	49	21.36		
Apr	51	552	33	22.10		
May	52	607	16	14.49		
June	77	624	7 ⁴⁴	6.49 ¹⁰²⁴		
FY 1952			429			
July	70	593	30	10.05		
Aug	63	601	26	15.97		
Sept	83	622	3	2.91		
Oct	99	540	13	6.76		
Nov	76	609	13	7.48		
Dec	60	633	26 ¹	12.13 ⁶³		
CY 1952			295	157.72		
	65					

WEST INNOVATION

SECRET

T-PLANT

DISSOLVING

COOLING DAYS		WGT	T.	RUNS STARTED	MRC SHINES	PROD. Kg's.	o/o LOSS
AVG	MIN						

Jan 1953	85	68	626	3	10	24	4.86	2.9
F	91	70	599	25	34	24	8.59	2.6
M	58	64	558	22	42	25	15.03	2.1
A	60	46	341	17	13	38	5.25	1.7
M	66	56	396	17	17	35	5.05	2.1
June	65	55	451 461	30	38	24	12.81	2.2
F 1953				225			106.54	

July	53	45	425	17	20	40	6.40	2.3
Aug	68	59	365	18	21	25	5.74	2.4
Sep	74	65	446	24	26	17	9.58	2.4
Oct	70	56	603	17	25	38	6.48	2.3
Nov	66	51	616	23	31	15	10.29	2.4
Dec	91	70	613	33	45	23	13.82	2.3
CY 1953				246	322	328	103.90	
	74	45						2.3

Jan 1954	66	53	617	37	68	15	21.26	2.5
Feb	89	75	616	32	55	20	16.31	2.5
Mar	96	82	611	29	55	21	20.29	2.2
Apr	98	81	203	31	12	22	1.71	6.1
May	88	69	206	83	54	9	14.78*	2.3
June	99	82	200	92	60	4	16.94*	2.3
FY 1954				436			143.60	

July	98	74	200	90	61	5	17.49*	2.6
Aug	96	70	201	100	58	6	14.03*	2.7
Sep	91	60	201	105	74	4	20.82*	2.4
Oct	84	60	194	130	81	7	21.70*	3.1
Nov	102	73	189	130	81	7	21.25*	3.6
Dec	100	88	189	152	92	4	25.97*	4.0
CY 1954				1011	751	124	212.55	
	92	53					(59.57) (152.98*)	2.8

* lower g/t

SECRET

	T-PLANT							
	DISSOLVING				RUNS STARTED	MTRC SHIPPED	PROD. Kg's	T/L
	COOLING		MWDH	T				
	AVG.	MIN						
Jan. 1955	104	60	198	155	97	0	28.66*	3.7
Feb	100	67	205	155	98	5	28.19*	4.0
Mar	119	64	239	63	56	18	15.81*	4.3
Apr	90	75	204	79	44	9	12.24*	3.2
May	99	92	208	147	102	2	26.05*	3.9
June	112	101	230	160 ⁴	108	3	30.00 ¹	3.6
FY 1955				1466			262.71*	
July	108	97	262	100	81	11	23.52*	3.6
Aug	108	76	261	109	89	3	25.06*	3.0
Sep	102	87	257	125	106	14	30.32*	3.3
Oct	103	92	255	87	70	17	21.80*	3.0
Nov.	115	100	254	47	40	11	11.59*	2.5
Dec.	138	129	254	39 ⁶	33	14	11.34 ³	2.1
CY 1955				1266	924	107	264.58*	
	108	MIN 60					*low g/T	3.5
Jan. 1956	167	157	256	18	18	11	4.84*	2.3
Feb	213	188	263	27	29	3	7.12*	3.1
Mar	-	-	-	-	3	6	4.2*	5.1
Apr	-	-	-	-	-	3	0.98*	-
May	-	-	-	-	-	2	0.84*	-
June	-	-	-	- ⁰⁵	- ⁴⁰	2 ²⁷	0.45 ⁸	-
FY 1956				552	51		142.26*	
July					-	1	0.10*	-
Aug					-	2	0.13*	-
Sep					-	-	-	-
Oct					-	-	-	-
Nov.					-	-	-	-
Dec					-	-	-	- ³³
CY 1956					50	30	18.66*	
							*low g/T	

TONS Kg's

67.03⁽¹⁾ 12.53*

246.77 53.60*

130.92 21.77*

196.85 58.53*

132.95 27.24*

341.14 73.55*

112.71 19.24*

239.52 50.76

315.10 192.72

186.03 120.60

272.22 162.98

279.15 181.81

520.39 1105.78

(839.33)

(266.45)

(1) First month

RUNS STARTED	MRC SHIPPED	PROD. Kg's	% W.L.
97	0	28.66*	3.7
98	5	28.19*	4.0
56	18	15.81*	4.3
44	9	12.24*	3.2
102	2	26.05*	3.9
108	3	30.00*	3.6
		262.71*	

81	11	23.52*	3.6
89	3	25.06*	3.0
106	14	30.32*	3.3
70	17	21.80*	3.0
40	11	11.59*	2.5
33	14	11.34*	2.1
924	107	264.58*	
		*low g/T	3.5

18	11	4.84*	2.3
29	3	7.12*	3.1
3	6	4.2*	5.1
	3	0.98*	-
	2	0.84*	-
	2	0.45*	-
		142.06*	

	1	0.10*	-
	2	0.13*	-
		-	-
		-	-
		-	-
		-	-
50	30	18.66*	
		*low g/T	

PUREX

TONS	Kg's	COOLING		WASTE LOSS	
		DOWN	AVG	MIN	U

67.03 ⁽¹⁾	12.53* ⁽¹⁾	0	151	138	.46	1.83
246.77	53.60*	31	181	145	.99	5.1
130.92	21.77*	58	163	111	.65	4.1
196.85	58.52*	40	105	95	1.36	2.8
132.95	27.24*	55	127	115	.52	3.5
341.14	73.55*	0	101	91	.61	1.4

112.71	19.24*	60	145	131	1.16	2.3
239.52	150.76	242	135	116	.95	1.26
315.10	192.72	133	118	109	.34	1.3
186.03	120.60	452	117	104	.60	1.78
272.22	162.98	30.0	108	98	.53	.93
279.15	181.81	37.6	114	100	.50	.77

520.39	1105.78					
	(839.33)	32.8		MIN		
	266.45*			91	70	1.67

(1) First month of production

PUREX

	TONS	Kg's	COOLING		WASTE LOSS		
			% DOWN	AVE	MIN	U	P ₀
1957							
JAN	300.68	183.69	30.1	120	114	.30	1.29
FEB	283.98	145.40	20.0	125	91	.22	1.11
MAR	294.91	176.30	30.5	126	115	.43	1.12
APR	405.02	181.01	7.2	121	107	.17	.89
MAY	355.90	173.45	24.2	122	108	.27	1.27
JUNE	367.36	173.02	8.0	121	107	.17	.73
FY '57	3412.53	1890.114					
JULY	356.58	159.48	2.7	114	70	.25	.85
AUG	433.38	192.36	3.2	115	107	.21	.57
SEP	263.54	140.01	35.0	112	105	.31	.69
OCT	477.78	226.00	6.4	107	97	.20	.54
NOV	425.25	219.01	14.3	103	89	.15	.51
DEC	432.82	170.41	35.5	100	93	.22	.55
FY '57	4397.20	2144.14					
			18.8	116	MIN 70	.23	.83
1958							
Jan	567.11	236.38	12.0	101	91	.10	.51
Feb	550.76	265.53	.3	91	83	.06	.32
MAR	423.94	195.72	14.8	91	85	.11	.42
APR	440.65	190.39	18.5	93	81	.14	.25
MAY	358.08	166.04	30.7	89	73	.05	.24
JUNE	53.72	10.43	84.8	110	101	.21	2.36
FY '58	4783.61	2176.65					
JULY	521.18	245.31	6.3	108	93	.05	.16
AUG	196.73	87.10	48.0 ⁽¹⁾	105	92	.13	.56
SEP	551.38	271.93	16.5	103	89	.08	.33
OCT	470.34	232.93	26.6	106	92	.08	.26
NOV	523.32	292.99	26.5	99	90	.09	.19
DEC	602.74	302.78	10.0	102	90	.05	.16
FY '58	5259.95	2497.42					
			23.8	100	MIN 73	.08	.30

(1) Pu operation 36%
Np " 16%

PUREX

	TONS	KG'S	No DOWN	COOLING		WASTE LOSS	
				AVE	MIN	U	PU
1959							
JAN	376.50	113.02	38.0	104	81	.12	.29
FEB	291.30	166.26	54.0	105	91	.06	.19
MAR	540.51	288.02	13.0 ^(S)	108	91	.05	.18
APR	270.04	116.03	17.5	107	93	.14	.53
MAY	353.56	249.79	12.3	104	90	.02	.19
JUNE	625.65	393.02	3.7	102	93	.04	.19
FY 59	5373.25	2531.38					
JULY	214.86	144.02	37.1	110	87	.18	.53
AUG	608.79	408.68	0	115	91	.05	.13
SEP	444.72	312.97	16.0	95	89	.10	.18
OCT	305.88	167.95	43.0	102	92	.10	.34
NOV	441.95	276.32	33.6	107	91	.09	.28
DEC	443.88	284.46	39.7	104	91	.18	.49
CY 59	4987.64	3000.74	AVE 26.3				.26
1960							
JAN	600.87	348.40	0	93	90	.08	.35
FEB	375.67	251.46	29.9 ^(S)	100	92	.10	.38
MAR	233.59	110.26	62.8	124	94	.46	1.33
APR	727.17	453.32	0	120	93	.06	.16
MAY	300.47	162.31	30.6 ^(S)	109	94	.29	.28
JUNE	251.92	143.53	67.4	122	103	.28	1.83
FY 60	5019.79	3062.68					
JULY	423.34	253.70	39.3	109	90	.10	.96
AUG	753.99	423.28	11.0	100	89	.17	.46
SEP	782.69	459.17	0	129	87	.06	.45
OCT	403.30	205.27	14.2	127	101	.08	.43
NOV	688.08	328.74	0	117	90	.16	.48
DEC	702.92	508.60	15.6	103	91	.09	.36
CY 60	6244.03	3647.04					.50

(1) ~~12~~ of Palm
operating time
included as operating time
(2) Palm operating time ~~not~~ included

PUREX

	TONS	Kg's	% DOWN	COOLING		WASTE LOSS	
				AVG	MIN.	U	Pu
1961							
JAN	331.77	180.81	28.6	114	93	.18	.52
FEB	474.92	292.09	33.4	111	92	.09	.30
MAR	560.72	318.20	7.5	118	96	.16	.36
APR	360.76	224.48	28.0	123	94	.35	.58
MAY	694.95	429.31	12.4	124	96	.09	.25
JUNE	580.36	344.91	8.0	115	100	.10	.35
FY 1961	6757.80	3968.56					
		3068.57					

JULY	480.18	276.51	27.7	123	101	.11	.38
AUG	634.63	369.88	10.0	115	104	.20	.36
SEP	496.54	269.79	33.1	121	110	.16	.34
OCT	371.42	188.23	55.8	114	100	.18	.37
NOV	282.11	166.70	52.6	116	106	.18	.24
DEC	678.87	440.79	5.6	166	112	.10	.13
CY 1961	5947.23	3501.10					.33
		529.11					

1962

JAN	313.29	197.45	29.5	142	122	.27	.44
FEB	144.79	76.89	24.6	145	130	.61	.57
MAR	305.04	213.83	36.4	162	121	.16	.20
APR	302.39	192.79	34.0	174	150	.35	.64
MAY	620.56	338.97	0.6	162	125	0.38	6.37
JUNE	555.25	327.33	15.6	156	126	.31	.34
FY 1962	5185.07	3059.16					

JULY	776.79	412.89	0.6	142	120	.31	.37
AUG	271.05	157.78	45.7	136	120	.38	.70
SEPT	498.97	287.69	22.6	199	131	.36	.54
OCT	772.43	445.99	16.1	155	122	.24	.36
NOV	695.01	350.50	17.7	153	114	.27	.40
DEC	784.54	448.15	6.5	127	107	.31	.45
CY 1962	6040.11	3450.26					.45

571.9K

PUREX

	TONS	Kg's	°C DOWN	COOLING.		WASTE LOSS	
				AVG.	MIN.	U	PU
1963							
JAN.	9.36	0	100	228	200	.04	0
FEB.	405.62	230.05	38.0	160	124	.36	.61
MAR.	867.24	477.22	5.0	146	116	.24	.38
APR.	13.12	39.09	94.0	136	130	.53	.22
MAY	669.07	376.97	23.1	146	113 (1 lb)	.36	.34
JUNE	773.90	470.46	7.57	149	119 (1 lb)	.22	.33
FY 1963	6537.11	3690.79					

JULY	12.38	6.97	100	-	-	3.27	4.19
AUG.	202.80	103.96	54	155	124	.92	.90
SEPT.	621.29	356.16	0	154	21*	.23	.35
OCT.	453.56	353.24	11.3	160	120	.25	.36
NOV.	721.07	404.65	10.3	170	87	.25	.34
DEC.	665.02	440.83	24.2	150	123	.26	.35
CY 1963	5417.33	3053.65					.86

1964

JAN.	235.28	178.87	23	142	119	.29	.39
FEB.	3.48	.28	88	153	138	no production	
MAR.	805.09	425.53	05	153	130	.26	.33
APR.	298.17	240.16	34	142	121	.19	.33
MAY	470.54	252.24	28	139	122	.23	.41
JUNE	727.28	471.96	3	152	120	.15	.28
FY 1964	5218.86	3234.90					
		3234.90 (acc)					

JULY	289.02	177.75	49	148	121	.26	.50
AUG.	856.19	483.35	01	139	121	.22	.28
SEPT.	507.62	381.19	08	228	166	.25	.45
OCT.	842.85	456.28	06	137	121	.27	.32
NOV.	606.02	326.05	01	136	121	.22	.35
DEC.	117.66	65.69	79	139	123	.40	.28
CY 1964	5759.20	3459.35					

1890.30% FYTD

* 2 lbs. (6895-C) chg in error 9/1/63 (disclosed in report)

PUREX

	TONS	Kg's	% DOWN	COOLING		% WASTE LOSS	
				AVG.	MIN.	U	Pu
1965							
JAN	(.24)	0	100	—	—	—	—
FEB	390.62	228.34	50	169	131	0.38	0.43
MAR	807.07	406.90	15	169	120	.29	.30
APR	908.51	496.09	02	186	122	.24	.32
MAY	883.20	466.54	0	157	125	.25	.29
JUNE	529.44	302.15	24	178	125	.36	.51
FY 1965	6737.96	3790.33					
		3790.33 acc					

JULY	262.18	141.78	67	165	126	.45	.45
AUG.	458.86	288.99	19	167	119	.33	.39
SEPT.	506.38	267.88	23	175	131	.23	.52
OCT.	388.66	205.55**	14	141	119	.22	.46
NOV.	210.64	125.65	56	163	122	.30	.53
DEC.	425.11	246.91	27	137	122	.26	.56
CY 1965	5770.43	3176.78					
		3239.36 acc					

END OF GE DATA

1966									
JAN	412.99	236.75	31	134	120	.24	.31		
FEB	173.41	230.75	16	190	145	.21	.62		
MAR	371.85	334.49	13	158	125	.29	.41	Tons	Kg
APR	278.58	163.04	57	124	120	.27	.92	Thorium	U-233
MAY	0	(577)	—	347	138	—	—	16.52	1408
JUNE	0	0	11	269	127	0.8	0.5	130.21	144.54
FY 1966	1721.91	959.26						146.73	158.62
CYTD		acc 959.26							
JULY	40.98	62.58	77	160	130	2.4	1.2	40.98	62.58
AUG.	28.84	13.47	88	228	190	.11	.92	0	1.81
SEPT.	578.49	325.19	8	220	157	.29	.37		
OCT.	915.15	500.48	0	163	122	.23	.32		
NOV.	291.74	304.23	26	244	132	.27	.56		
DEC.	446.38*	340.05	35	440	173	.18	.26		
CY 1966	4206.52	2505.26							

** 62.588 Transfers → A
* Enriched

CONFIDENTIAL

1967

SEPT.
OCT.
NOV.

(2) NPR test

1968

March	20
April	20
May	20

FY 1968 -

Aug	2004
Sept	2004
Oct	2004
Nov	2004

CY 1968-

- * Enriched
- (i) non-defense

**** Zircaloy - N Reactor 135 TON**

PUREX

	Tons	Kg's	% Down	Cooling		% Waste Loss	
				Avg.	min.	U	Pu
1969							
Jan.	0	605	89	244	230	-	-
Feb.	128.38	268.57	23	297	195	.34	.46
Mar.	346.09	316.94	37	247	184	.19	.24
Apr.	270.01	173.16	46	300	234	.28	.65
May	459.90	284.57	23	373	183	.22	.39
June	109.52	95.23	71	222	181	.33	.48
FY 1969	2217.24	2572.20					

July	17.67	24.81	89	215	189	1.49	1.88
Aug.	368.62	318.80	24	261	180	.30	.33
Sept.	384.38	303.23	21	226	175	.27	.34
Oct.	318.12	190.47	29	244	187	.38	.50
Nov.	303.45	204.35	37	291	191	.25	.46
Dec.	312.42	352.96	23	361	202	.20	.22
CY 1969	2024.56	2544.64					

Jan.	246.37	149.94	56	215	177	.33	.39
Feb.	84.27	62.28	82	0	0	.25	.53
Mar.	9.55	17.23	88	227	185	1.05	1.45
Apr.	311.61	242.09	41	326	219	.19	.40
May	61.93	131.23	62	304	201	.63	.68
June	51.98	47.83	82	-	-	.43	1.45
FY 1970	2476.32	2050.72					

July	-	-	100	-	-	-	-
Aug.	-	-	92	1385	438	-	-
Sept.	121.99 Thorium	132.19 (U-233)	10	988	355	.91 Thorium	3.22 (U-233)
Oct.	28.01 Thorium	40.11 (U-233)	68	585	358	2.76 Thorium	10.86 (U-233)
Nov.	155.06 Thorium	110.20 (U-233)	18	534	303	2.55 Thorium	5.44 (U-233)
Dec.	89.57 Thorium	275.76 (U-233)	56	525	110	4.63 Thorium	3.14 (U-233)
CY 1970	1162.34	1214.26					

PUREX

	U TONS	P. Kg's	% Down	Cracking Avg.	min.	% Waste Loss U	Pu
1971							
Jan.	-	33.92 (4.233)	Down	-	-	-	-
Feb.	422.00	-	Down	-	-	-	-
Mar.	1226.33	-	Down	-	-	-	-
Apr.	400.91	156.42	33	454	355	.35	.49
May	728.49	304.99	21	363	283	.23	.64
June	497.43	241.05	19	254	203	.22	.51
F.Y. 1971	1626.33	702.46					

July	210.01	113.43	60	637	582	.42	.69
Aug.	647.51	379.63	0	595	264	.25	.27
Sept.	627.94	345.22	0	537	233	.26	.28
Oct.	77.49	44.02	77	1024	272	.98	1.09
Nov.	122.76	151.94	60	314	279	.53	.61
Dec.	237.66	362.13	03	767	311	.35	.64
CY 1971	3556.20	2098.73					

1972 JAN	90.30	37.16	53	766	382	.19	.71
FEB	51.22	169.11	76	413	376	.62	.82
MAR	575.86	194.59	16	418	397	.23	.40
APR	25.49	(.01)	90	-	-	-	1.46
MAY	-	91.49	65	-	-	-	1.00
JUN	(.67)	16.09	91	-	-	-	1.00
F.Y. 1972	2614.09	1906.20					

JUL	158.76	232.16	14			.98	.53
Aug	206.90	289.26	0			1.00	1.20
Sep.	31.83	27.78	97			1.90	3.10
OCT.	.21	.07	DOWN 9-3-72	-	-	-	-
NOV.	-	-		-	-	-	-
Dec.	-	-	'Stand-by'	-	-	-	-

CY 1972 1058.42 1059.20
DOWN - Scheduled START - Vp AUGUST 1974.

B-PLANT

(1) DISSOLVING

* COOLING DAYS MWD/T TONS

Dec. 1944

Jan. 1945

Feb

Mar

Apr

May

June

44 118 13

37 163 26

37 179 47

FY 1945

July

40 217 23

Aug

39 200 33

Sep

39 194 32

Oct

44 210 63

Nov

53 199 49

Dec

41 202 46

CY 1945

42 302

Jan. 1946

52 201 43

Feb

65 189 45

Mar

64 201 44

Apr

61 198 46

May

61 204 59

June

65 206 52

FY 1946

62 535

July

64 207 52

Aug

60 204 68

Sep

57 206 39

Oct

64 203 50

Nov

66 202 39

Dec

60 199 36

CY 1946

62 573

62

Classification changed to

Declassified

By Authority of PR-24

Staff Info Spec PNL

4/21/92

n. of cooling days is determined by totaling the cooling days for each run for the month including the number of runs.

(1) HW-28198

CONFIDENTIAL

B-PLANT

DISSOLVING

COOLING
DAYS MWD/T TONS

Jan. 1947	59	199	33
Feb	72	201	26
Mar	69	204	33
Apr	68	206	33
May	67	207	29
June	79	205	30

FY 1947

465

July	75	205	29
Aug	79	205	29
Sep	84	201	33
Oct	94	203	20
Nov.	94	202	23
Dec.	94	201	27

CY 1947

345

78

Jan 1948	99	200	32
Feb	100	197	36
Mar	106	201	26
Apr	109	241	27
May	120	233	18
June	113	202	39

FY 1948

331

July	98	207	43
Aug	96	208	33
Sep	79	210	26
Oct	98	207	33
Nov.	98	204	39
Dec.	99	207	46

CY 1948

398

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B-PLANT
DISSOLVING
COOLING
DAYS MWD/T TONS

Jan. 1949	96	211	53
Feb	110	210	13
Mar	104	225	56
Apr	98	230	26
May	95	247	36
June	100	254	23

FY 1949 427

July	95	273	20
Aug	102	298	10
Sep	94	346	30
Oct	95	333	33
Nov.	98	375	26
Dec	98	400	30

CY 1949 356
99

Jan. 1950	100	392	30
Feb	101	391	30
Mar	98	412	33
Apr	97	363	23
May	98	377	33
June	96	390	30

FY 1950 328

July	94	403	40
Aug	75	413	53
Sep	73	418	43
Oct	76	424	40
Nov.	84	400	49
Dec	82	392	56

CY 1950 460
90

CONFIDENTIAL

	B-PLANT					REDOX							SI
	DISSOLVING					TONS	Kg's	% DOWN	COOLING		WASTE LOSS		
	COOLING DAYS	MWD/T	TONS	Kg's	RUNS				AVG	MIN.	L	P	
Jan. 1951	89	408	53										
Feb	77	403	49										
Mar	67	413	53										
Apr	53	416	47	16.65									230
May	50	420	53	20.36									26
June	50	415	22	8.05									48
FY 1951			555										
July	47	555	16	7.50									110-16
Aug	48	585	43	20.13									18
Sep	49	576	36	17.94									19
Oct	46	567	46	22.33									30
Nov	46	592	53	26.53									35
Dec	51	576	37	18.62									50
CY 1951			508										
	56			PRODUCED									
				Kg's	RUNS								
Jan. 1952	49	565	42	21.62	68	3.64 ⁽¹⁾	9						30
Feb	50	603	40	19.43	55	22.66	5.43				4.56		30
Mar	57	577	23	15.42	52	43.11	18.32				3.73		24
Apr	64	603	7	3.06	9	74.99	31.70				1.64		40
May	62	603	2	3.81	5	78.08	31.69				2.23		40
June	64	579	4	3.82	10	44.82	27.08				2.32		34
FY 1952			349										59
July	-	-	-	1.95	6	77.25	42.07				1.09		70
Aug	-	-	-	.98	3	106.79	56.49				.83		30
Sep	-	-	-	-	-	94.94	51.52				1.12		40
Oct	-	-	-	-	-	71.92	38.30				1.11		26
Nov	-	-	-	-	-	118.55	58.83				.86		40
Dec	-	-	-	-	-	91.38	45.35				1.30		50
CY 1952	58		118	70.09	208	822.13	406.78				1.43		40

(1) First month of operation

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REDOX

				COOLING		WASTE LOSS	
	TONS	Kg's	% DOWN	AVG	MIN	U	PJ
JAN. 1953	111.50	56.72	14.1	82	55	.58	1.02
Feb	53.54	29.72	43.6	95	80	1.42	1.17
Mar	126.45	66.54	15.0	91	83	1.21	2.05
Apr	132.14	69.65	12.2	83	75	.78	1.62
May	118.50	59.68	15.5	82	75	.72	1.98
Jun	102.90	51.17	33.4	80	73	.98	1.05
FY 1953	1200.26	626.04					
July	157.56	83.04	15.8	73	69	1.23	1.26
Aug	125.15	59.22	28.9	79	63	1.21	1.22
Sept	118.86	62.17	36.4	83	77	1.43	1.33
Oct	186.38	100.46	6.0	76	67	.89	.79
Nov	5.67	4.11	95.0	-	-	1.7	2.1
Dec	191.45	100.41	6.2	83	69	1.13	.85
CY 1953	1430.4	742.89					
			26.8	81	MIN. 55	1.04	1.29
Jan. 1954	67.40	36.55	53.5	83	77	1.16	1.17
Feb	85.32	42.47	54.1	94	77	.29	.40
Mar	185.60	94.81	17.6	85	71	.81	.69
Apr	135.18	70.07	30.0	85	75	.88	.53
May	175.50	94.34	9.2	82	70	.90	.66
June	41.70	21.31	78.7	80	74	1.7	2.15
FY 1954	1475.77	763.96					
July	69.01	40.10	57.1	106	76	.47	.73
Aug	111.81	63.72	37.0	109	82	1.43	.84
Sep	154.09	86.25	18.0	102	90	1.21	.60
Oct	155.16	88.66	26.0	134	101	1.45	.58
Nov	182.96	101.58	14.0	145	107	.80	.67
Dec	215.57	115.18	9.0	116	74	.37	.66
CY 1954	1579.30	855.04					
			33.7	106	MIX. 70	.95	.70

* Includes returned per reshippe

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REDOX

	TONS	Kg's	T ₆ DOWN	COOLING		WASTE LOSS	
				AVG	MIN	U	Pd
1955							
JAN. '55	36.77	19.49	7.70	103	97	.88	.201
FEB	181.60	33.59*	19.0	92	75	.33	.79
MAR.	245.40	47.91*	8.1	82	76	.46	.82
APR.	187.50	69.49	19.7	147	82	.90	.131
MAY	256.17	60.53	2.0	123	106	.43	.187
JUNE	146.83	103.06	41.7	100	86	.99	.96
FY-55	1942.87	442.42					
JULY	159.18	52.86*	31.3	102	89	.96	.62
AUG	228.92	58.75*	13.4	109	96	.79	.71
SEP	310.14	76.93*	5.2	100	85	.43	.76
OCT	283.06	66.77*	14.2	100	87	.43	.88
NOV	226.90	113.27	168	157	96	.63	.92
DEC	153.11	119.93	46.0	101	77	.87	.182
CY '55	2425.58	971.35					
		(638.63 332.72*)	24.5	110	75	.62	1.02
1956							
JAN	115.46	19.01*	52.2	117	106	.81	1.12
FEB	246.94	59.92*	16.8	114	103	.08	.43
MAR	183.46	45.45*	16.5	128	107	.48	.86
APR.	200.60	136.30	35.1	145	98	.18	.21
MAY	214.23	134.24	27.0	109	97	.25	.75
JUNE	164.57	87.03	48.0	110	103	.44	1.08
FY '56	2496.57	1006.24					
JULY	59.83	38.36	78.0	124	107	.49	1.39
AUG	104.95	76.05	46.0	134	97	.70	2.16
SEP	241.30	57.26*	17.5	148	121	.67	.56
OCT	278.33	57.13*	13.0	157	115	.33	.25
NOV	278.50	68.40*	6.4	137	114	.26	.27
DEC	247.03	56.13*	17.8	114	90	.23	.26
CY '56	2335.20	835.65					
		(491.98 343.67*)	31.2		90	.36	.78

* Low g/T.

REDOX

	TONS		Kg's	To DOWN	COOLING		WASTE LOSS	
	N	E			AVE	MIN	U	Pu
1957								
JAN	80.78		6.59* 32.36	69.4	123	115	.39	.67
FEB	112.73		72.28	58.6	120	109	.17	.43
MAR	89.89		26.00	64.0	128	107	.23	.87
APR	155.07		296.22	41.4	119	105	.40	.83
MAY	147.95		559.00	39.2	121	97	.10	.39
JUNE	100.16		58.45	67.8	124	107	.18	.69
FY-57	1576.51	--	714.52					
JULY	171.79		67.59	338	118	108	.23	.57
AUG	153.17		73.40	334	113	104	.09	.39
SEP	219.46		107.67	19.1	114	105	.10	.42
OCT	181.64		80.92	25.7	110	96	.24	.85
NOV	163.11		73.11	37.0	103	87	.17	.78
DEC	252.78		111.49	18.4	100	90	.16	.67
CY 57	1828.52	--	865.08					
			(858.49) 6.59x	423	116	MIN 87	.19	.62
1958								
JAN	50.77	--	21.10	71.4	104	89	.75	.68
FEB	131.92	--	65.97	44.3	90	81	.22	.58
MAR	104.39	--	55.00	46.0	92	85	.27	.39
APR	105.26	--	45.31	52.8	93	87	.31	.33
MAY	160.78	--	62.48	42.5	95	84	.24	.44
JUNE	209.09	--	99.49	24.2	106	96	.15	.28
FY 58	1904.16		865.53					
JULY	215.47	--	96.39	23.2	108	95	.16	.31
AUG	138.49	--	61.05	50.3	106	97	.14	.32
SEP	149.33	--	84.63	46.0	109	94	.25	.51
OCT	52.44	--	20.65	69.5	203-E 114	195-E 112	.59	.74
NOV	0(5)	--	23.80	54.8	211-E	206-E	--	--
DEC	0(6)	65.28	19.47	58.	219-E	161-E	.23	.38
CY 58	1312.94	65.28	655.34					.41

* Low MWD/T

(5) Accountability Report was - 5.46 T
(6) showed - 9.44 T Normal and 22.86 kg Pu total

(7) See notes (5) and (6)

(8) See note (6)

REDOX

	TONS		Kg's	% DRY	COOLING		WASTE LOSS	
	N	E			AVG	MIN.	U	P ₀
1959								
JAN	— (3)	68.08 (3)	52.09 (3)	50.7	208E	156E	.24	.51
FEB	—	52.45 (4)	33.85 (4)	59.7	278E	160E	.36	.55
MAR	—	50.62 (5)	27.84 (5)	64.3	250E	127E	.21	.53
APR	20.18 (6)	56.9 (6)	36.05 (6)	34.0	219E	190E	.16	.40
MAY	68.25 (7)	26.71 (7)	70.01 (7)	35.3	108	97	.18	.51
JUNE	—	76.55 (8)	37.36 (8)	31.2	166E	109E	.11	.42
FY 59	644.13 (2)	306.60 (2)	512.44 (2)					
JULY	16.14 (8)	62.92 (8)	41.83 (8)	35.3	180E	110E	.10	.45
AUG	18.66	61.99 (9)	43.21 (9)	43.5	173E	102E	.09	.72
SEP	—	67.78	31.35	38.5	199E	109E	.09	.49
OCT	—	64.72	42.65	45.9	170E	123E	.14	.64
NOV	—	76.39	35.15	17.5	143E	113E	.11	.30
DEC	125.20	9.76	77.69	25.4	103	96	.12	.52
FY 59	248.40	674.88	522.88					.51
1960								
JAN	12.58	71.72	49.61	32.6	166	124	.19	.50
FEB	—	47.73	24.74	62.6	138	124	.11	.35
MAR	—	42.51 (3)	34.95 (3)	72.8	150	110	.25	.34
APR	—	81.02 (4)	43.59 (4)	45.6	145	122	.11	.41
MAY	—	26.35 (5)	5.58 (5)	78.9	166	140	.10	.45
JUNE	115.13	36.89	72.06	25.0	169E-144	110	.13	.32
FY 60	287.71	649.76	561.43					
JULY	78.49	—	34.78	58.9	173	103	.15	.56
AUG	21.51	—	5.91	82.0	130	106	.28	.98
SEP	40.05	—	24.44	62.0	260	237	.26	.16
OCT	69.4	69.35	57.96	44.0	268	239	.12	.56
NOV	—	88.95	51.43	32.5	258	238	.05	.10
DEC	—	81.57	31.99	45.8	241	180	.08	.31
FY 60	274.70	546.07	437.04					.43

(8) Accountability Report showed Production to be 61.54 tons E - UNH Loadout 62.92 tons
15.78 tons N - " " 16.14 tons

(9) Production - 60.53 tons E - UNH Loadout 61.99

(4) Accountability Report showed Production to be 45.36 tons E - UNH Loadout 52.45

(5) " " " " " " 49.10 tons E - " " - 50.62

(6) " " " " " " 56.18 tons E - " " - 56.91

(7) " " " " " " 22.65 tons N - " " - 20.18

" " " " " " 25.84 tons E - " " - 26.71

" " " " " " 62.76 tons N - " " - 68.22

(3) Accountability Report showed - Mineral - 3.32 T and aqueous 28.22 - Enriched - 72.22 Tons & 50.00

REDOX

	TCNS		Kg's	Y _L DOWN	COOLING		WASTE LOSS [%]	
	N	E			AVG	MIN	U	P
1961								
JAN	0	74.77	65.49	48.6	254	231	.13	.39
FEB	0	75.04	45.89	44.9	230	147	.01	.16
MAR	0	111.87	62.81	33.0	163	130	.11	.17
APR	0	105.01	60.00	30.9	202	142	.11	.26
MAY	0	69.55	32.05	54.3	223	144	.14	.19
JUNE	0	151.24	99.47	9.6	262	144	.13	.19
FY '61	146.99	857.35	572.22					
JULY	0	125.66	79.59	34.0	167	124	.17	.21
AUG	0	126.79	68.35	36.6	151	123	.12	.27
SEP	0	60.75	37.04	61.8	143	124	.12	.20
OCT	0	131.34	69.77	25.0	142	124	.14	.19
NOV.	0	101.82	49.51	28.1	129	113	.12	.18
DEC	0	83.68	57.95	63.1	172	111	.19	.28
CY '61	0	1259.52	727.92					.22
1962								
JAN	0	152.52	81.13	9.8	129	117	.11	.17
FEB	0	137.56	76.03	20.4	130	120	.17	.26
MAR	0	81.61	40.66	59.0	147	120	.31	.48
APR	0	.84	0	100	261	188	0	0
MAY	0	20.70	10.50	82.2	175	144	.31	.26
JUNE	0	114.44	71.09	28.0	174	122	.25	.44
FY '62	0	1142.71	641.62					
JULY	0	4.47	(3.34)	92.9	189	134	1.29	.87
AUG.	0	138.59	81.95	28.0	171	120	.19	.53
SEP.	0	112.02	45.76	22.1	205	109	.22	.54
OCT.	0	104.85	54.39	23.4	227	156	.34	.56
NOV.	0	61.50	42.34	59.0	226	135	.33	.45
DEC.	0	43.32	33.98	66.0	196	162	.34	.42
CY '62	0	972.42	534.43					.42

REDOX

	TCONS		Kg's	% DOWN	COOLING		WASTE LOSS ^{0.5}	
	N	E			AVG	MIN.	U	Pu
1963								
JAN.	0	214.78	133.78	5.1	229	135	.23	.37
FEB.	0	108.16	72.03	38.0	231	151	.34	.51
MAR.	0	20.50	9.25	82.5	219	152	.27	.49
APR.	0	184.23	111.21	15.0	162	123	.21	.31
MAY	0	35.03	17.63	82.0	162	145	.29	.29
JUNE		131.22	73.33	36	152	118	.34	.24
FY 1963	0	1158.67	672.25					
JULY	0	132.40	80.67	39	231	123	.23	.37
AUG.	0	128.21	79.91	41	309	139	.22	.41
SEPT.	0	91.61	50.67	41	221	121	.17	.40
OCT.	0	38.41	21.27	75	169	165	.29	.71
NOV.	0	10.49	22.75	93	185	185	.34	.73
DEC.	0	55.07	22.23	71	242	238	.19	.48
CY 1963	0	1150.11	694.75					.44
1964								
JAN.	0	184.97	128.25	22	281	135	.21	.27
FEB.	0	180.00	107.58	21	222	125	.22	.26
MAR.	0	28.70	27.00	87	0	0	.60	1.4
APR.	0	88.61	46.48	63	246	163	.29	.40
MAY	0	174.29	107.44	33	219	141	.37	.32
JUNE	0	85.75	59.35	68	158	150	.34	.48
FY 1964	0	1198.51	753.62					
JULY	0	146.59	88.63	29	237	184	.31	.32
AUG.	0	54.82	28.13	68	271	193	.42	.54
SEPT.	0	233.48	168.97	06	228	166	.21	.30
OCT.	0	97.42	56.84	63	211	176	.20	.39
NOV.	0	172.20	109.87	32	251	190	.26	.26
DEC.	0	321.23	189.86	14	207	157	.22	.25
CY 1964		1768.06	1118.42					

REDOX

REDOX

	TONS		Kg's	DOSE	COOLING		WASTE LBS	
	N	E			AVG	MIN.	L	P
1965								
JAN.	0	232.47	126.67	26	206	150	0.19	0.32
FEB.	0	158.33	83.48	8	190	152	0.14	0.26
MAR	0	117.88	59.27	8	177	158	.18	.32
APR	0	217.46	110.37	28	168	140	.22	.44
MAY	0	197.76	102.67	26	149	131	.27	.38
JUNE	(5.75)	46.56	47.15	66.53	-	-	.28	2.19
FY 1965			117.19					
JULY	9.26	51.73	37.26	69	156	125	.25	1.07
AUG	0	302.90	127.21	18	169	140	.20	.65
SEPT	0	69.68	36.92	78	171	152	.27	.54
OCT	0	80.83	71.54*	59	209	152	.25	.75
NOV	0	151.60	83.95	42	206	147	.26	.52
DEC.	0	141.07	80.79	41	200	155	.24	.47
FY 1965		1663.32	967.28					
1966			967.28					
JAN	0	286.95	177.42	10	206	151	.25	.31
Feb	0	70.16	49.55	73	220	151	.27	.51
Mar.	0	45.97	58.91	61	177	167	.29	.71
Apr.	0	80.30	140.68	41	240	188	.88	1.03
May	0	106.10	84.10	46	187	144	.47	.69
June	0	240.51	150.24	16	143	122	.19	.28
FY 1966		830.29	660.90					
CYTD		830.29	660.90					
JULY	0	68.40	51.18	77	144	142	.18	.38
Aug	0	3.26	0	-	-	-	-	-
Sept.	0	220.86	145.75	17	203	164	.12	.39
OCT.	22.04	124.10	124.87	30	281	156	.43	.30
Nov.	1.39	67.51	93.19	27	280	186	.48	1.00
Dec.	13.90	.08	64.28	56	-	-	.59	.74
FY 1966		1314.50						

* 62.588 transfer S → A

**DATE
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8/3/92**