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ORIGIN OF WASTES IN THE B-200 AND T-200 SERIES SINGLE-SHELL TANKS

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Abstract: A review of historical documents was conducted to determine the origin of wastes transferred into Hanford site tanks 241-B-201 through 241-B-204 and 241-T-201 through 241-T-204. This review determined that the waste stored in these tanks originated from plutonium concentration activities conducted in the 224-B and 224-T buildings. The B-200 series tanks also received flush solutions from cleanout of equipment and cells in 221-B Plant and 224-B Concentration building.

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ORIGIN OF WASTES IN THE B-200 AND T-200 SERIES SINGLE-SHELL TANKS

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SUMMARY

A review of historical documents was conducted to determine the origin of the wastes stored in single-shell tanks 241-B-201 through 241-B-204 and 241-T-201 through 241-T-204. This review was conducted to support disposition of the wastes in these tanks.

The wastes stored in tanks 241-B-201 through 241-B-204 and 241-T-201 through 241-T-204 were determined to originate from plutonium concentration activities conducted from October 1946 through June 1952 in the 224-B and 224-T Concentration buildings. The 224-B and 224-T Concentration buildings received the plutonium nitrate solution that was separated from the irradiated reactor fuel as part of reprocessing activities conducted in the 221-B and 221-T Bismuth Phosphate plants. Tanks 241-B-201 through 241-B-204 also received miscellaneous flush solutions from deactivation activities conducted at the 221-B Bismuth Phosphate Plant and 224-B Concentration building. No other types of waste were transferred to these tanks.

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LIST OF TERMS

1C	first cycle of the decontamination process
2C	second decontamination cycle wastes
Ci	Curies
CW	coating waste
kg	kilograms
ηCi/g	nanocuries per gram
MW	metal waste
NCRW	neutralized cladding waste
PAS	PUREX acidified sludge
PSN	PUREX supernate neutralized
PSS	PUREX sludge supernate
PUREX	plutonium-uranium extraction
REDOX	reduction-oxidation
RSN	REDOX supernate neutralized
TBP	tri-butyl phosphate
TIC	total inorganic carbon
TOC	total organic carbon
WSTRS	Waste Status and Transaction Record Summary
μCi/g	microcuries per gram
μg/g	micrograms per gram

1.0 INTRODUCTION

This document discusses the origins of wastes presently stored in single-shell tanks 241-B-201 through 241-B-204 and tanks 241-T-201 through 241-T-204. Section 2.0 provides a description of the different types of wastes that were generated at the Hanford Site chemical processing plants and transferred to the underground storage tanks. A basic understanding of the different types of wastes that were generated at the Hanford Site is provided for the reader to comprehend the waste types transferred to tanks 241-B-201 through 241-B-204 and tanks 241-T-201 through 241-T-204, as discussed in Section 3.0. Section 4.0 summarizes the waste types that were transferred into these tanks.

2.0 TYPES OF TANK WASTE GENERATED AT THE HANFORD SITE CHEMICAL PROCESSING PLANTS

There are 149 single-shell tanks and 28 double-shell underground storage tanks located at the Hanford Site. These tanks received supernatants and precipitated sludges originating from the reprocessing of spent nuclear fuels, research and development, and waste management activities.

There were numerous spent nuclear fuel reprocessing, research, and development, and waste management activities conducted at the Hanford Site starting in 1944. 221-T Plant (T-Plant), first used for reprocessing of spent nuclear fuel in December 1944, operated until March 1956 using the bismuth phosphate process. The 221-B Plant (B-Plant) reprocessed spent nuclear fuel from April 1945 to June 1952 using the bismuth phosphate process. The bismuth phosphate process was based on carrier precipitation batch chemistry. The plutonium product solutions from the B-Plant and T-Plant were transferred to the 224-B and 224-T buildings for concentration. B-Plant was later renovated and used from 1963 through 1986 to recover the fission products cesium and strontium from the wastes stored in single-shell tanks.

Later, B- and T-Plants were replaced by the REDOX (reduction-oxidation) and PUREX (plutonium-uranium extraction) plants using continuous solvent extraction processes for separating uranium and plutonium from dissolved, spent nuclear fuels. The REDOX plant operated from January 1952 through November 1966 and PUREX operated intermittently from January 1956 to early 1990). Uranium was recovered from the wastes stored in the single-shell tanks from operation of the bismuth phosphate plants using a tributyl phosphate solvent extraction process in the tri-butyl phosphate (TBP) Plant (221-U building). The Hot Semiworks, building 201-C, was operated from 1949 through 1967 as a research and development facility for many of the Hanford Site chemical processes (e.g., REDOX, TBP, B-Plant strontium separations, PUREX process tests). All of these facilities generated numerous sources of radioactive mixed wastes that are stored in the single-shell tanks and double-shell tanks.

In addition to the operations conducted in the processing plants, there were numerous activities conducted within the underground storage tanks, including evaporation, cesium precipitation using ferrocyanide, and discharge of supernatants to underground cribs. These spent nuclear fuel reprocessing, research and development, and waste management activities resulted in the mixing and alteration of the different waste types within several (but not all) of the 149 single-shell tanks and 28 double-shell tanks.

The spent nuclear fuel reprocessing, research and development, and waste management activities conducted in the processing plants are described in the following sections. Refer to DOE/RL-97-02; *National Register of Historic Places Multiple Property Document Form - Historic, Archaeological and Traditional Cultural Properties of the Hanford Site, Washington February* for additional details on these processes.

As will be shown in Section 3.0, none of the spent nuclear fuel processing wastes from these operations were received into tanks 241-B-201 through 241-B-204 or 241-T-201 through 241-T-204. These tanks only received waste from the 224-B and 224-T plutonium concentration buildings. The B-200 series tanks also receive wastes from equipment cleaning. The process operations conducted in the 221-B, 224-B, 221-T and 224-T are discussed in the following subsections to provide an understanding of the waste types generated in these facilities.

2.1 BISMUTH PHOSPHATE PROCESS: B- AND T-PLANTS

B- and T-Plants were constructed in 1944 through 1945 to separate plutonium from spent nuclear fuel using the bismuth phosphate process. Figure 1 shows a summary of the 221-B and 221-T Plant bismuth phosphate process, which is referred to throughout this discussion.

In the bismuth phosphate process, the aluminum cladding of spent nuclear fuel elements was dissolved in boiling sodium nitrate solution, to which sodium hydroxide was slowly added (HW-10475-C, page 403). The cladding removal waste, sometimes referred to as Coating Waste (CW), was transferred to single-shell underground storage tanks. (See item [1] in Figure 1)

The fuel element uranium cores (see item [2] in Figure 1) were then dissolved in nitric acid (HW-10475-C, chapter IV, page 405). Water and sulfuric acid were added to the dissolved uranium metal solution and the mixture was then transferred to the plutonium extraction section. The sulfuric acid formed a uranyl sulfate complex that prevented its precipitation as a phosphate in the subsequent plutonium extraction step (HW-10475-C, page 418).

Plutonium was extracted from the acid solution by addition of bismuth nitrate and phosphoric acid to form a bismuth phosphate carrier precipitate (HW-10475-C, page 503). The plutonium and bismuth phosphate carrier precipitate was centrifuged and washed with water to separate the acidic supernatant from the precipitate, (see item [3] in Figure 1). The acidic solution remaining after the plutonium precipitation contained about 99 percent of the uranium, about 90% of the fission products. This separation process also removed and reduced the gamma radiation activity level in the plutonium precipitate by a factor of 10. However, zirconium is phosphate insoluble and zirconium-95 (10 percent of the activity) stayed with the plutonium product. The acidic

uranium solution was then neutralized and transferred to the underground single-shell tanks as Metal Waste (MW). Recent laboratory testing of the bismuth phosphate flowsheet confirms this partitioning of radionuclides (internal letter 7G300-02-NWK-024, "Bismuth Phosphate Process Radionuclide Partition Factors for the Hanford Defined Waste Model"). The laboratory tests indicate the percentage of cecium-137 and strontium-90 partitioned to the metal waste may have been as high as 100 percent and 89 percent respectively.

The plutonium bearing cake was then dissolved in nitric acid and further decontamination of the plutonium to separate fission products was conducted (HW-10475-C, chapter VI). Sodium bismuthate, sodium dichromate, or potassium permanganate was added to oxidize the plutonium to the +6 valence-state. This step caused the bismuth phosphate to precipitate phosphate insoluble fission products ("by-product precipitation"), leaving the plutonium in solution. The precipitate was separated from the plutonium-bearing solution using centrifuges and washed to remove soluble plutonium. The plutonium was reduced to the +4 valence state to form a precipitate that could be separated from the remaining soluble fission products by centrifugation. The fission products separated from the plutonium product during this first cycle of the decontamination process (designated as 1C) were combined with the coating removal waste and transferred to single-shell tanks. The 1C waste (see item [4] in Figure 1), contained approximately 10 percent of all fission products and approximately 1.4 percent of the plutonium present in the original fuel charged to the plant (HW-23043, pages 20 and 22). After 1951, the Bismuth Phosphate process flowsheet was modified to include cerium and zirconium scavenger precipitation in the 1C by-product step to remove lanthanide and zirconium radionuclides from the plutonium product (HW-23043, page 16).

The plutonium solids were again dissolved in nitric acid. A second decontamination cycle (see item [5] in Figure 1) was conducted to reduced the gamma activity level by a factor of 10,000 from that in the previous dissolved metal solution, giving an overall process decontamination factor of 100,000 below that of the original solution (HW-10475-C, page 627). The second decontamination step essentially repeated the steps previously described for the first cycle decontamination. The second decontamination cycle wastes (designated as 2C) were also transferred to the single-shell tanks. The 2C waste contained less than 0.1 percent of the uranium and fission products and about 0.4 percent of the plutonium present in the original fuel charged to the plant (HW-23043, pages 26 and 28). The plutonium product from the bismuth phosphate process was subsequently transferred to the 224-B or 224-T building for concentration.

Table 1 provides the estimated compositions of the neutralized CW, MW, 1C, and 2C waste solutions generated from the bismuth phosphate plants based on the October 1, 1951 flowsheet (HW-23043). Additional analyses of the supernatant fraction of MW, IC, and 2C that was stored in single-shell tanks are provided in Tables 2 and 3. These sample analyses support previous statements regarding the partitioning of fission products to the various Bismuth Phosphate Plant Waste Streams. Specifically, 90% of the fission products were partitioned to the metal waste as evident by the Cs-137 concentration provided in Table 3. About 10% of the fission products partitioned to the 1C waste, as demonstrated by the gross beta and gross gamma radionuclides analyses provided in Table 2 and the Cs-137 analyses provided in Table 2. The 2C waste contained less than 0.1% of the fission products, as evident from information provided in Table 2.

Figure 1 Cesium and Strontium Distribution in Bismuth Phosphate Process

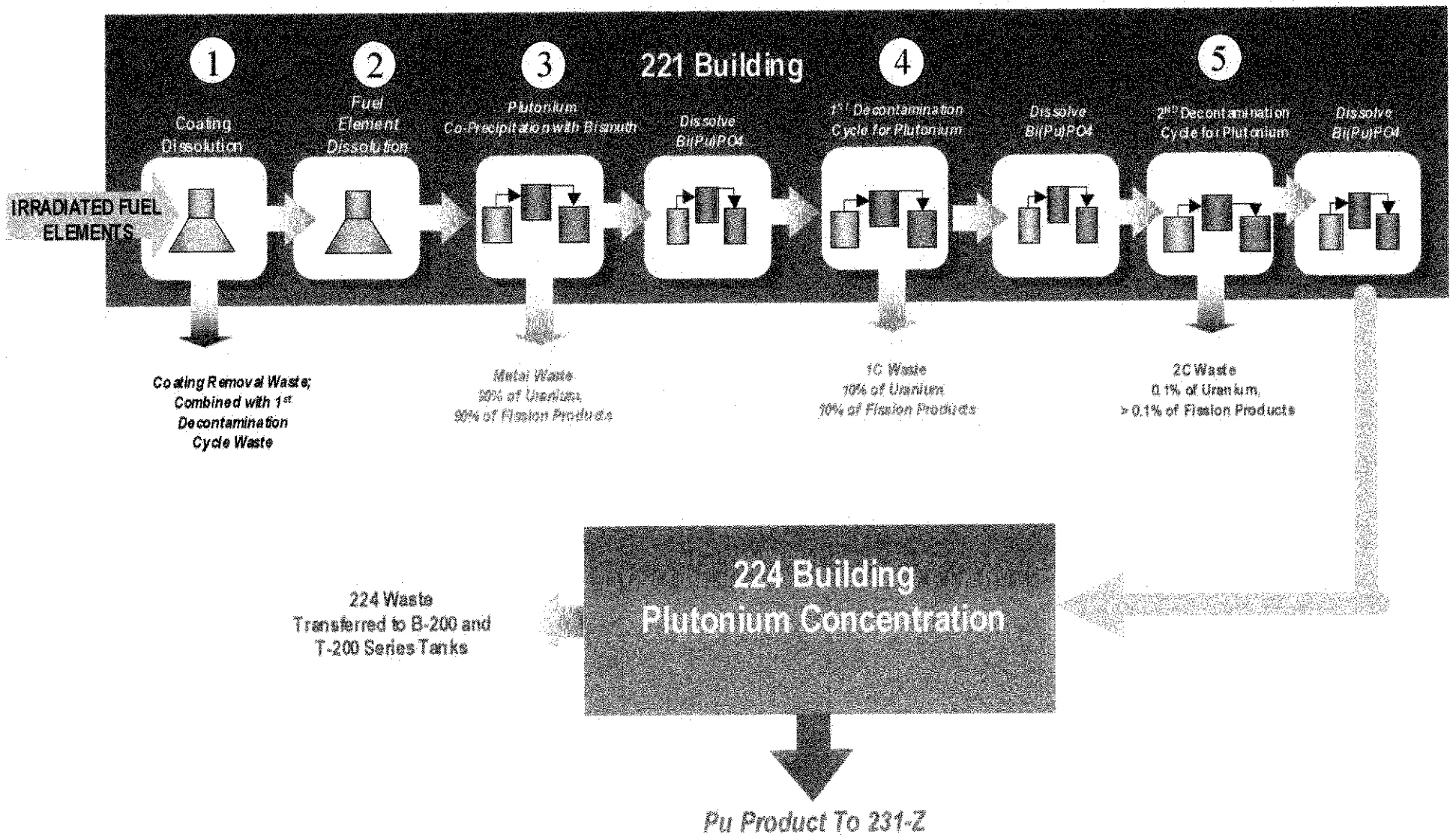


Table 1 Estimated Composition of Bismuth Phosphate Plant Wastes
From October 1, 1951 Flowsheet [1]

Analyte[2]	Coating Removal Waste[7]	Metal Waste[7]	First Decontamination Cycle (1C) Waste	Second Decontamination Cycle (2C) Waste	224 Building Waste
Plutonium	3.3E-04	2.0E-04	6.0E-07 [4]	1.6E-07 [5]	1.68E-04[6]
Uranium	0.15		0.235 [4]	Not reported	2.04E-05
Gamma	6.6E+04	1.3E+07	2.3E+06 [4]	1.13E+04 [5]	1.13E+02[6]
Sodium Aluminate ($NaAlO_2$)	95.1				
Sodium Hydroxide (NaOH)	43.6				
Sodium Nitrate ($NaNO_3$)	61.8				
Sodium Nitrite ($NaNO_2$)	56.0				
Sodium Silicate ($NaSiO_3$)	4.3				
Uranyl nitrate (UHN) [3]		132			
Fluorine (F)					5.6
Nitrate (NO_3)		9.7	93.1	61.3	42.4
Sulfate (SO_4)		24.4	4.73	3.61	0.35
Phosphate (PO_4)		25.2	26.2	23.0	3.05
Sodium (Na)		83.2	47.3	36.7	36.8
Bismuth (Bi)			2.59	1.31	1.18
Cerium (Ce)			0.030		
Lanthanum (La)					0.49
Manganese (Mn)					0.33
Zirconium (Zr)			0.030		
Iron (Fe)			1.37	1.82	
Chrome (Cr)			0.16	0.06	0.17
Ammonia (NH_4)			1.98	1.71	0.12
Silicon Hexa-Fluoride (SiF_6)			4.35	3.67	
Volume per Batch (gallons)	795	2,380	2,040	2,090	2,200

Notes:
(1) See HW-23043
(2) Analyses are reported in grams er liter, except for gamma activity, which is counts/minute/mL.
(3) HW-23043 page 31 notes that uranium is not actually present in this form, but is probably as $NaUO_2PO_4$ and $Na_4(UO_2)_2CO_3$.
(4) Pu and Gamma concentrations were calculated from the compositions of tanks 13-4 and 14-3 (HW-23043 pages 20 and 22).
(5) Pu and Gamma concentrations were calculated from the compositions of tanks 18-4 and 19-3 (HW-23043 pages 26 and 28).
(6) Pu and Gamma concentrations were calculated from the compositions of tanks A-4, D-4, B-3, and F-8 (HW-23043 pages 39, 44, 48, and 54)
(7) The coating waste batch size is based on 6,600-lbs uranium, but that the metal waste dissolution batch size is based on 2,200-lbs uranium.

Table 2 Analyses of Bismuth Phosphate Process Supernatants

Waste Type[1,2]	Tank	pH	Pu µGm/liter	Gross Beta millicuries/liter	Gross Gamma millicuries/liter	Date Sampled
Metal Waste	T-101	10.1	70	200[5]	70[5]	12-12-1946
Metal Waste	T-101	10	35	110	25	7-01-1947
Metal Waste	T-102	9.9	60	120	20	7-01-1947
Metal Waste	T-103	9.8	60	150	20	7-01-1947
1C/CW	B-109	9.9	40	0.65	0.28	3-18-1947
1C/CW	C-112	9.9	12	12	4.4	3-18-1947
2C	B-111	6.9	7.2E-02	2.0E-03	3.0E-03	7-1-1947
2C	B-112	6.8	4.32E?? [3]	1.5E-03	3.0E-03	7-1-1947
Waste Type	**Tank**	**pH**	**Pu µGm/liter**	**Gross Beta Counts/minute/cc**	**Gross Gamma Counts/minute/cc**	**Date Sampled**
2C	T-110	Not reported [4]	15	4.9E+04	30	7-13-1945
2C	T-110	9.8[4]	19	6.9E+04	55	7-25-1945
2C	B-110	9.6[4]	8.5	7.0E+04	55	7-25-1945

Notes:

[1] See HW-10728 and HW-3-3220.

[2] Solids formed in each of wastes, settling to the bottom of each tanks. These sample analyses are for the supernatant only and are not representative of the sludges.

[3] The reported Pu sample analyses for tank B-112 seems to be in error and lacking an exponent in HW-10728.

[4] Prior to October 1945, the 2C waste was neutralized to a pH of approximately 10. The waste collected in tanks 241-T-110, 241-T-111, and 241-T-112 were neutralized to about pH 7 after October 1945 to precipitate bismuth and plutonium (HW-3-3220, page 13).

[5] Reduction in the gross gamma and beta analyses for the metal waste in tank T-101 from sampling in 12-12-1946 to 07-01-1947 is due to decay of short-lived fission products.

Table 3 Radionuclide Analyses of Metal Waste and First Decontamination Cycle Waste

Tank	Date Filled	Pu µgm/cc	Gross Beta µCi/cc	Gross Gamma µCi/cc	Sr µCi/cc	Cs µCi/cc	Ru µCi/cc	Rare Earths + Y – Ce µCi/cc	Ce µCi/cc	Nb µCi/cc	Zr µCi/cc	Te µCi/cc
Analyses of Metal Waste Supernatant Following Uranium Extraction [1]												
C-106	Not specified				0.44	54.2						
BX-108	Not specified				0.26	132.4						
BX-109	Not specified				1.08	56.3						
C-112	Not specified				1.20	25.8						
C-109	Not specified				0.46	40.7						
C-111	Not specified				0.10	34.5						
Average Concentrations for Metal Waste					**0.59**	**57.3**						
Analyses of First Decontamination Cycle Waste Mixed with Coating Removal Waste Supernatant [2]												
B-107	8-1945	1.7E-02	0.135	0.055	0.011	0.10						
T-107	9-1945	1.5E-03	0.170	0.093	0.0013	0.20						
B-108	12-1945	2.0E-02	0.183	0.044	0.022	0.12						
T-108 (Top)	12-1945	2.0E-02	0.25	0.073	0.12	0.17	0.0066	0.047	0.007	0.0018	0	1.2E-05
T-108 (Bottom)	12-1945	2.0E-02	0.25	0.070	0.12		0.0065	0.029	0.0066	0.0024	0	3E-05
T-109	3-1946	2.6E-03	0.14	0.082	0.00038	0.15						
B-109	4-1946	1.8E-02	0.16	0.051	0.01	0.11						
T-104 (Top)	7-1946	3E-03	0.51	0.130	0.00013	0.13	0.058	0.004	0.051	0.028	0.010	2.4E-05
T-104 (Bottom)	7-1946	3E-03	0.52	0.160	0.00037		0.059	0.003	0.050	0.028	0.015	3.6E-05
C-110	8-1946	2E-03	0.14	0.0067	0.00026	0.11						
C-111	11-1946	4.2E-03	0.16	0.069	0.01	0.13						
C-112	4-1947	3.1E-03	0.14	0.064	0.005	0.13						
U-110	4-1947	2.1E-04	0.13	0.069	0.00011	0.17						
U-111	10-1947	3.4E-04	0.12	0.060	0.00023	0.14						
TX-109 [3]	9-1949	2.7E-05	2.8	2.2	0.00087	0.27	0.34	0.0085	0.0035	0.34	1.2	8E-05
Average Concentrations for 1C / CW		**7.67E-03**	**0.39**	**0.22**	**0.02**	**0.15**						

Notes:

[1] HW-36717, Decontamination of Uranium Recovery Process Stored Wastes Interim Report, May 16, 1955, W. W. Schulz, General Electric Company, Richland Washington.

[2] HW-20195, Radioactive Content of Stored Bismuth Phosphate First Cycle Waste Supernatants, February 5, 1951, General Electric Company, Richland Washington.

[3] Tank TX-109 exhibits higher gross beta and gross gamma radioactivity since this tank was sampled shortly after filling and the short-lived fission products (e.g., Ru, Nb, and Zr) had not decayed appreciably.

2.1.1 224-B and 224-T Concentration Buildings

The process steps executed in the 224 buildings were as follows (HW-10475-C, chapter VII and HW-23043, pages 34 to 55):

- The starting batch size received from the 221 buildings was 330 gallons.
- Plutonium solution from the 221 buildings was oxidized with sodium bismuthate to convert the plutonium to the +6 valence state.
- Phosphoric acid was added to produce a bismuth phosphate ($BiPO_4$) precipitate, with the plutonium still in solution. At this point, operators wanted to get rid of all the $BiPO_4$.
- The solution and precipitate were separated by centrifugation.
- Nitric acid was added to dissolve the $BiPO_4$ precipitate, with this solution removed as waste.
- Potassium permanganate ($KMnO_4$) was added to the plutonium solution to ensure all the plutonium was in the +6 valence state.
- Hydrogen fluoride and lanthanum salts were added to the plutonium solution producing a lanthanum fluoride precipitate. Fission products were carried with the lanthanum. This precipitate contained all the lanthanides (cerium, lanthanum, etc.) and residual ruthenium, samarium, europium, americium, and curium that the $BiPO_4$ could not carry out of the stream.
- The lanthanum fluoride precipitate was dissolved in nitric acid, neutralized with sodium hydroxide, and sent to waste storage tanks.
- Oxalic acid was added to the plutonium solution collected from the lanthanum fluoride precipitation step to reduce the plutonium to the +4 valence-state.
- Hydrogen fluoride and lanthanum salts were added to the plutonium solution producing a lanthanum fluoride and plutonium fluoride precipitate. The precipitate was centrifuged to collect the solids.
- Potassium hydroxide was added to convert the plutonium fluoride / lanthanum fluoride precipitate into lanthanum hydroxide and plutonium hydroxide solids.
- After centrifuging to separate the lanthanum hydroxide and plutonium hydroxide solids, these solids are reacted with nitric acid solution to dissolve the lanthanum and plutonium. The plutonium nitrate / lanthanum nitrate solution product was now ready for transfer to the 231-Z building or 234-5 building.

By this time, each original 330-gallon batch of plutonium-bearing solution that had entered the 224 buildings was concentrated down to eight gallons. The liquid waste (designated as "224") from the lanthanum fluoride and barium sulfate precipitation process was neutralized and transferred to the single-shell tanks. Table 1 provides the estimated compositions of the neutralized 224 waste solutions based on the October 1, 1951 flowsheet (HW-23043).

3.0 ORIGINS OF WASTE IN TANKS 241-B-201 THROUGH 241-B-204 AND 241-T-201 THROUGH 241-T-204

This section provides a brief description of tanks 241-B-201 through 241-B-204 and 241-T-201 through 241-T-204, and a summary of the documented waste transfers into these tanks. In order to determine the origins of the wastes presently stored in these tanks, declassified historical reports for the Hanford Site were reviewed. With the exception of the waste status summary reports, all reports cited in this section are available electronically from the Hanford Declassified Document Retrieval System at http://www2.hanford.gov/declass/. Full-text copies of the waste status summary reports cited in this section are provided in Appendix A. The results of the present review of historical records are compared with a previous review of historical report that was conducted in 1980 as part of WHC-MR-0132, *A History of the 200 Area Tank Farms.*

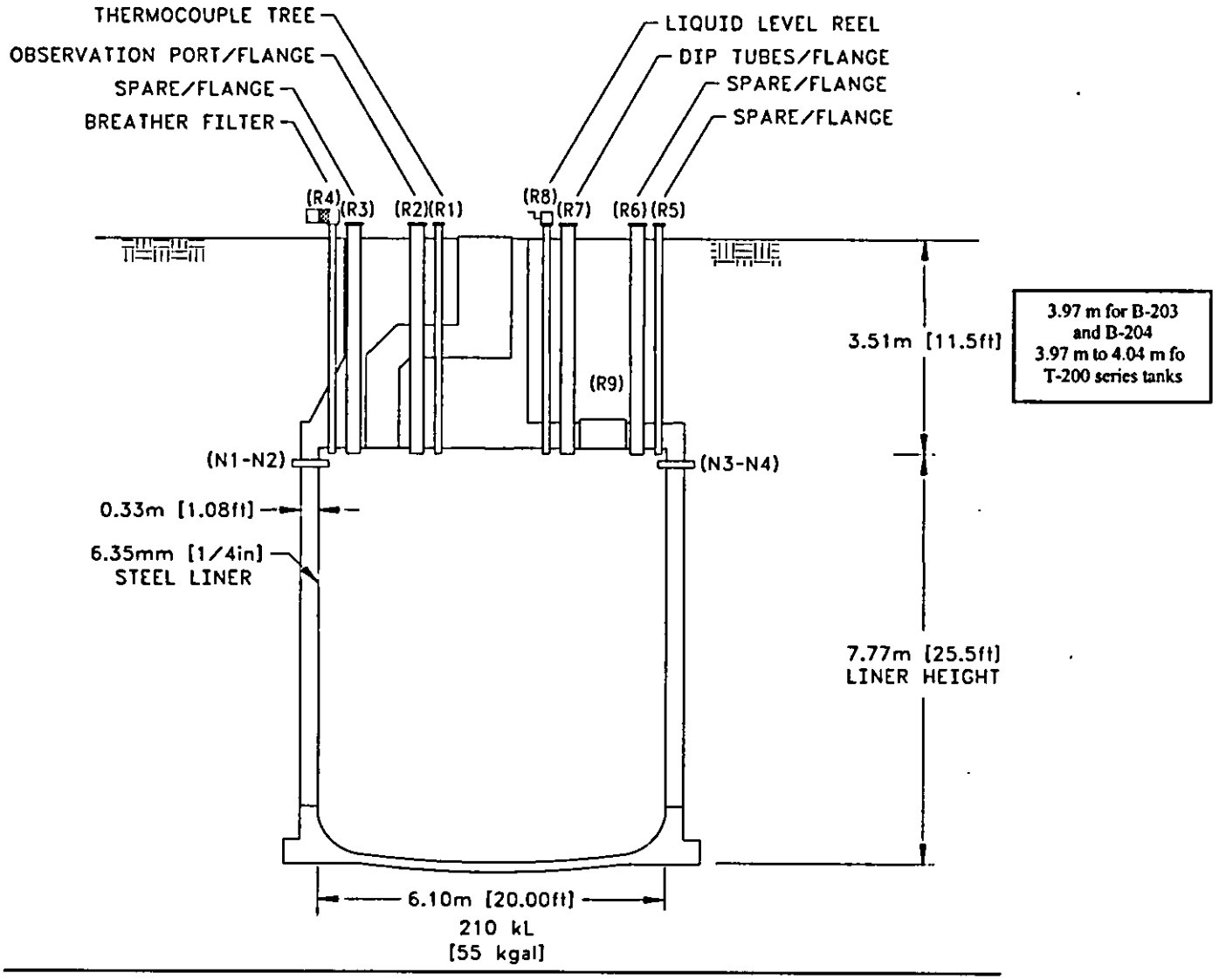
3.1 DESCRIPTION OF TANKS 241-B-201 THROUGH 241-B-204 AND 241-T-201 THROUGH 241-T-204

Single-shell tanks 241-B-201 through 241-B-204 (B-200 series) and tanks 241-T-201 through 2410T-204 (T-200 series) were originally constructed in 1944 as part of the Manhattan Project (HW-10475-C, chapter IX). The B-200 and T-200 series tanks are twenty-foot diameter underground tanks made of reinforced concrete with a steel liner on the bottom and sides, as depicted in Figure 2. Each tank has a design capacity of 55,000 gallons at a liquid depth of twenty-four feet. The 200 series tanks are grouped together with twelve larger capacity single-shell tanks (100 series) to comprise a tank farm.

3.2 WASTE TRANSFERS INTO TANKS 241-B-201 THROUGH 241-B-204

This section discusses the date and source of wastes that were transferred into tanks 241-B-201 through 241-B-204. Tanks 241-B-201 through 241-B-204 did not receive any high-level wastes. These tanks received transuranic waste from operations conducted at the 224-B plutonium concentration building and equipment decontamination waste. According to the *Hanford Technical Manual Section C* for the bismuth phosphate process (HW-10475-C, pages 909 - 911), the metal waste solution from the bismuth phosphate processing plant (B-Plant) was originally planned to be decontaminated to separate fission products from the uranium using scavenger precipitation processes. This decontamination process was to be conducted in B-Plant with the precipitates being transferred to the 241-B-201 through 241-B-204 tanks. However, the metal waste decontamination process was never implemented and metal waste solution was *not* transferred into these tanks. Tanks 241-B-201 through 241-B-204 were unused until October 1, 1946.

Figure 2 Cross Section of 200 Series Single-Shell Tank.



Beginning in October 1946, tanks 241-B-201 through 241-B-204 were used as settling tanks for the solids that were contained in the 224-B Concentration building waste, with the liquid discharged to the 241-B-1 and 241-B-2 cribs. Prior to October 1946, the waste from the 224-B Concentration building was transferred to the 361-B settling tank and the liquid portion discharged to the 241-B-361, reverse-well. By September 1946, solids had accumulated in the 361-B settling tank to a point where the tank had reached its storage capacity, causing shutdown of 221-B and 224-B building operations, as reported in the Army Corp of Engineers monthly report for September 1946 (HAN-45800, page 77). A project was initiated in August 1946 to divert the 224-B Concentration building waste to tank 241-B-201 (HW-7-4640). The Army Corp of Engineers monthly report for October 1946 reports this project was completed on October 1, 1946, at which time a connection was made from the 224-B building waste transfer line to tank 241-B-201 (HAN-45800, page 87). A similar connection was also completed on October 14, 1946 from the 224-T Concentration building waste transfer line to tank 241-T-201. The *Hanford Engineering Works Monthly Report for October 1946* (HW-7-5362-DEL, pages 27 and 28) confirms that the 224-B building waste was routed to tank 241-B-201 in October 1946.

Tank 241-B-201 received waste from the 224-B Concentration building from October 2, 1946 through October 1948, after which the tank was considered filled with solids and the 224-B Concentration building waste was diverted to tank 241-B-204 (HW-11499, page 34). Tank 241-B-204 was connected in a cascade with tanks 241-B-203 and 241-B-202 (HW-10714-DEL, page 31). Liquid was gravity discharged from the last tank in the cascade, 241-B-202 to the 241-B-1 and 241-B-2 cribs. Solids contained in the 224-B building waste were allowed to settle in tanks 241-B-204 through 241-B-202. The cascade of tanks 241-B-204, 241-B-203, and 241-B-202 continued to receive 224-B Concentration building wastes until September 1952.

In July 1952, B-Plant and the 224-B Concentration building were shut down because their processing capability was no longer needed and had been replaced by the REDOX facility. Beginning in July 1952, cleanout of B-Plant and the 224-B Concentration building was initiated, with the spent nuclear fuel dissolver heels removed from equipment in the 221-B building (HW-25227-DEL, pages Ed-1 and Ed-6). The process equipment in B-Plant was flushed with nitric acid solution from July 1952 through September 1952 to remove plutonium with the recovered plutonium solutions being processed through the normal bismuth phosphate flowsheet (HW-25227-DEL page Ed-1 and Ed-6, HW-25533-DEL, pages Ed-1 and Ed-6, HW-25781-DEL, page Ed-1, and HW-26047-DEL, pages Ed-1 and Ed-5). Plutonium solutions derived from equipment cleanout activities in the 221-B building were processed in the 224-B Concentration building to recover the plutonium, with waste from the 224-B Concentration building transferred to the cascade of tanks 241-B-204, 241-B-203, and 241-B-202.

Monthly reports for the 200 Area tank farms for April 1952 through September 1952 (HW-27838 and HW-27839) substantiate that only 224-B Concentration building waste was discharged to the cascade of tanks 241-B-204, 241-B-203, and 241-B-202. Further substantiation of only 224-B Concentration building waste being transferred into tanks 241-B-201 through 241-B-204 up to September 1952 is provided in HW-33591, page 7.

Additional cleaning of the internal surfaces of piping and equipment in 221-B and 224-B buildings was conducted using various chemical solutions and water, as described in HW-27774. This cleaning occurred from October 1952 through March 1953. Flushes of metal waste, first decontamination cycle, and second decontamination cycle equipment were transferred to the cascade of tanks 241-B-110, 241-B-111, and 241-B-112, as documented in waste status summary reports for the 200 Area tanks farms for this period (HW-27840, HW-27841, HW-27842, and HW-27775). In November 1952, the cascade of tanks 241-B-204, 241-B-203, and 241-B-202 received flushes of 224-B building and metal waste lines (HW-27840, page 20). In December 1952, they received flushes of 224-B building equipment and 221-B building section 9 metal waste tanks (HW-27840, page 28). In January, February and March 1953 they received flushes of 224-B building equipment and 221-B building sections 7 and 8 extraction equipment (HW-27841, page 9,HW-27842, page 9, HW-27775, page 9).

Flushing of the B-Plant building cells and wetting of process equipment with water was conducted in April 1953 through June 1, 1953 (HW-27932-DEL, page Ed-5; HW-28267-DEL, page Ed-5; and HW-28576-DEL, page Ed-5). These flush solutions were transferred to the cascade of tanks 241-B-110, 241-B-111, and 241-B-112, as documented in waste status summary reports for the 200 Area tanks farms for this period (HW-28043, HW-28377, and HW-28712). Additional decontamination of equipment in the 224-B Concentration building was also conducted in May through July 1953 with the flush solutions processed through T-Plant to recover plutonium (HW-28267-DEL, page Ed-5, HW-28576-DEL, page Ed-5, and HW-28906-DEL, page Ed-5).

In October 1954, approximately 50,000-gallons of water were transferred from the 221-B building through the cascade of tanks 241-B-201 through 241-B-204 (HW-33544, page 4). In December 1954, tank 5-6 (cell drainage in 221-B building) was reported as being routed to the cascade of tanks 241-B-204, 241-B-203, and 241-B-202, but no volume of waste was reported as being discharged to these tanks (HW-34412). In July 1955, 224-B Concentration building flush water was reported as being routed to the cascade of tanks 241-B-204, 241-B-203, and 241-B-202, but no volume of waste was reported as being discharged to these tanks (HW-38401, page 4). These modifications to the waste routing to tanks 241-B-201 through 241-B204 were conducted as part of the 4X Program to reactivate the 221-B Separations and 224-B Concentration buildings and increase spent nuclear fuel processing capability in the 221-T Separation building (HW-33903). However, this program was cancelled in March 1957 and the 221-B Separations and 224-B Concentration buildings were placed in lay-away status (DDTS-Generated-491, "Lay-Away of the Bismuth Phosphate – TBP Plants and the Metal Waste Removal Facilities"). No waste was transferred to tanks 241-B-201 through 241-B-204 for this period.

From 1957 through 1963, the 221-B building was converted for separating fission products of cesium-137 and strontium-90 from PUREX plant wastes. A flush of 7,500-gallons was transferred from the 221-B building to the cascade of tanks 241-B-204, 241-B-203, and 241-B-202 sometime January 1, 1962 through June 30, 1962 (HW-74647, page 4). This is the last transfer of any waste solutions into tanks 241-B-201 through 241-B-204. The 221-B building did not receive any waste for fission product separation until August 2, 1963

(HW-78817, page 5) and did not discharge fission product waste to tanks 241-B-201 through 241-B-204.

Tanks 241-B-201 through 241-B-204 did not receive any liquid wastes originating from the operation of the first cycle solvent extraction system, or equivalent, or the concentrated wastes from subsequent extraction cycles, or equivalent, in a spent fuel reprocessing facility. Rather, the wastes are either from a *plutonium concentration* process (not a subsequent *extraction* process) performed in a *separate* facility, or concentration of the liquid from cleanup of the 221-B Bismuth Phosphate Plant and 224-B Concentration building.

3.3 WASTE TRANSFERS INTO TANKS 241-T-201 THROUGH 241-T-204

This section discusses the date and source of wastes that were transferred into tanks 241-T-201 through 241-T204. These tanks did not receive any high-level waste but did receive transuranic waste from operations conducted at the 224-T plutonium concentration building. According to the *Hanford Technical Manual Section C* for the bismuth phosphate process (HW-10475-C, chapter X, pages 909 - 911) the metal waste solution from T-Plant was originally planned to be decontaminated to separate fission products from the uranium using scavenger precipitation processes. This decontamination process was to be conducted in T-Plant with the precipitates being transferred to the 241-T-201 through 241-T-204 tanks. However, this metal waste decontamination process was never implemented and metal waste solution was *not* transferred into these tanks. Tanks 241-T-201 through 241-T-204 were unused until November 4, 1946.

Beginning on November 4 1946, tank 241-T-201 was used as a settling tank for the solids that were contained in the 224-T Concentration building waste, with the liquid discharged to the 241-T-1 and 241-T-2 cribs (HW-33591, page 4). The waste from the 224-T Concentration building had been previously transferred to the 361-T settling tank and the liquid portion discharged to the 241-T-361, reverse-well. By July 1946, solids had accumulated in the 361-T, settling tank to a point where the tank had reached its storage capacity (HAN-45800, page 67). A project was initiated in August 1946 to divert the 224-T Concentration building waste to tank 241-T-201 (HW-7-4640). The Army Corp of Engineers monthly report for October 1946 reports this project was completed on October 14, 1946, at which time a connection was made from the 224-T building waste transfer line to tank 241-T-201 (HAN-45800, page 87). The Hanford Engineering Works monthly report for October 1946 (HW-7-5362-DEL, page 27 to 28) confirms that a route was established for transfer of the 224-T building waste to tank 241-T-201 in October 1946, with waste transfer initiated on November 4, 1946.

Tank 241-T-201 received waste from the 224-T Concentration building from November 4, 1946 through May 24, 1949, after which the tank was considered filled with solids and the 224-T Concentration building waste was routed to tank 241-T-204 (HW-13561-DEL, page 41). The solids depth in tank 241-T-201 was reported as "twenty feet of rather compact sludge and approximately three feet of a light sludge" (HW-13561-DEL, page 41).

Tank 241-T-204 was connected in a cascade with tanks 241-T-203 and 241-T-202, (HW-10714-DEL, page 31). Liquid was gravity discharged from the last tank in the cascade, tank 241-T-202, to the 241-T-1 and 241-T-2 cribs. Solids contained in the 224-T building waste were allowed to settle in tanks 241-T-204 through 241-T-202.

The tanks 241-T-204, 241-T-203, and 241-T-202 cascade continued to receive 224-T Concentration building wastes until May 29, 1952, after which this waste was transferred to the cascade of single-shell tanks 241-T-110, 241-T-111, and 241-T-112 (HW-27838, page 17). Tanks 241-T-201 through 241-T-204 were considered filled with solids and taken out of service effect on May 29, 1952 (HW-27838, page 12).

Tanks 241-T-201 through 241-T-204 did not receive any liquid wastes originating from the operation of the first cycle solvent extraction system, or equivalent, or the concentrated wastes from subsequent extraction cycles, or equivalent, in a spent fuel reprocessing facility. Rather, the wastes are either from a *plutonium concentration* process (not a subsequent *extraction* process) performed in a *separate* facility.

3.4 CURRENT REVIEW OF WASTE TRANSFER RECORDS COMPARED WITH OTHER REVIEWS

Historical records of waste transfers into, from and among the 200 Area tank farms were compiled and reported in WHC-MR-0132, LA-UR-96-3860, and LA-UR-97-311. Additional waste transfer records have been summarized for the B-200 series tanks in WHC-SD-WM-ER-310. These documents were reviewed and compared with the current analysis documented in this report to determine if significant discrepancies exist.

3.4.1 B-200 Series Tanks

These previous reviews to determine the tank contents for tanks 241-B-201 through 241-B-204 generally refer to WHC-MR-0132 and provide no new references regarding waste transfers into these tanks. Therefore, the current review of waste transfer records for tanks 241-B-201 through 241-B-204 was compared to that of WHC-MR-0132. Appendix B provides copies of the tabulated waste transfer records for tanks 241-B-201 through 241-B-204 from WHC-MR-0132.

In general, the waste transfer records summarized in WHC-MR-0132 are consistent with the information present in this document. However, there are three significant discrepancies that are discussed in the following sections.

3.4.1.1 Date Tanks Used to Receive Waste

The waste transfer records summarized in WHC-MR-0132 for tanks 241-B-201 through 241-B-204 do not indicate the presence of any waste in tanks 241-B-201 through 241-B-204 until the first quarter of 1952. This is inconsistent with historical documents discussed in this document, which indicates that these tanks received waste from the 224-B Concentration

building beginning in October 1946.

3.4.1.2 Cascade Operation of Tanks

Beginning in the first quarter of 1952, WHC-MR-0132 indicates that 224-B Concentration building waste (designated as "224") was transferred into tanks 241-B-201 through 241-B-204, which were operated as a cascade to a crib. However, this contradicts information published in HW-33591, which states that tank 241-B-201 received waste from the 224-B Concentration building only from October 2, 1946 through October 1948, after which the tank was considered filled with solids and the 224-B Concentration building waste was diverted to tank 241-B-204.

Tank 241-B-204 was connected in a cascade with tanks 241-B-203 and 241-B-202. Liquid was gravity discharged from the last tank in the cascade, tank 241-B-202, to the 241-B-1 and 241-B-2 cribs. Furthermore, tank farm waste status summary records for April through June 1952 (HW-27838) and July through September 1952 (HW-27839) indicate that only tanks 241-B-204 through 241-B-202 were active in a cascade with discharge to the crib. Again, this inconsistency in records does not affect the classification of the wastes in tanks 241-B-201 through 241-B-204.

3.4.1.3 Metal Waste Not Transferred to Tanks

WHC-MR-0132 identifies that metal waste (designated as "MW") was transferred into tanks 241-B-201 through 241-B-204 in the fourth quarter of 1952. WHC-MR-0132 indicates that metal waste was present in tanks 241-B-201 through 241-B-204 through the third quarter of 1953, after which time WHC-MR-0132 indicates that only "224" waste is present in these tanks. There is no explanation provided in WHC-MR-0132 to indicate that metal waste was removed from these tanks or that the earlier designation of metal waste being present in these tanks was incorrect.

It is highly unlikely that metal waste was transferred into tanks 241-B-201 through 241-B-204, since these tanks were active as a cascade that overflowed to the ground via a crib. Metal waste was not discharged to the ground because of the concentration of fission products and the economic value of the uranium. Because of the economic value of uranium, metal waste was kept segregated from other wastes. Document HW-33591 does not indicate the disposal of any metal waste to these tanks or the ground.

Process records for waste transfers to the 200 Area tank farms, contained in Appendix A, indicate that metal waste generated from spent nuclear fuel reprocessing at 221-B Plant was transferred to tank 241-BY-112 in BY Tank Farm for the period of April 1952 through September 1952. These same historical records indicate that only flushes of the metal waste lines and 221-B and 224-B building equipment were transferred to the cascade of tanks 241-B-204 through 241-B-202 during October 1952 through March 1953. Based on this information, WHC-MR-0132 incorrectly stated the presence of metal waste in tanks 241-B-201 through 241-B-204.

Further evidence that metal waste was not transferred into tanks 241-B-201 through 241-B-204 is provided by the analyzed composition of the sludges presently stored in these tanks, as reported in the Tank Waste Information Network (http://twins.pnl.gov:8001/twins.htm). Key analytes present in the wastes stored in tanks 241-B-201 through 241-B-204 are summarized in Tables 4.

The inventory of key analytes (e.g., Pu-239, Cl, Fe, Na, NO_3, PO_4, SO_4, CO_3, and U) in the sludge phase of tanks 241-B-201 through 241-B-204 has been divided by the mass of the sludge in each tank and reported in the upper half of Table 4. The composition of metal waste that was contained in single-shell tanks 241-T-101, 241-U-101 and 241-U-102 is provided in the lower half of Table 4. It is evident from the analyses in Table 4 that the concentrations of Pu-239, Cl, and Fe in the sludges present in tanks 241-B-201 through 241-B-204 are one order of magnitude higher than the metal waste sludges. Also, the concentration of uranium in the sludges present in tanks 241-B-201 through 241-B-204 is three orders of magnitude lower than the metal waste sludges. This comparison clearly shows that metal waste sludge contained a higher uranium concentration and a lower plutonium concentration than the sludges present in tanks 241-B-201 to 241-B-204. The sludges present in tanks 241-B-201 to 241-B-204 do not have the characteristics of metal waste sludge. Furthermore, the concentrations of cesium-137 and strontium-90 sludge present in tanks 241-B-201 through 241-B204 are less than 2E-04 Ci/l and 4E-03 Ci/l, respectively. Metal waste or other high-level waste would have cesium-137 and strontium-90 concentration several orders of magnitude higher, as reported in Table 3.

3.4.2 T-200 Series Tanks

In general, the waste transfer records summarized in WHC-MR-0132 are consistent with the information present in this document. The waste transfer records summarized in WHC-MR-0132 (see Appendix B) and the Waste Status and Transaction Record Summary (LA-UR-97-311) report for tanks 241-T-201 through 241-T-204 do not indicate the presence of any waste in these tanks until the first quarter of 1952. This is inconsistent with historical documents discussed in the previous section, which indicate that these tanks received waste from the 224-T Concentration building beginning in November 1946.

WHC-MR-0132 and LA-UR-97-311 both indicate that only 224-T building waste was received in these tanks and that these four tanks were removed from service in May 29, 1952. This is consistent with the current review of waste transfer records for these tanks.

Table 4. Comparison of Metal Waste Sludges with Sludges in Tanks 241-B-201 to 241-B-204.

	Pu-239	Cl	Fe	Na	NO_3	PO_4	SO_4	CO_3	U Total	Sample Event Description	Reference
	µCi/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g		3
241-B-201	7.51E-01	1.68E+03	1.15E+04	3.42E+04	5.05E+04	1.45E+04	3.48E+02	1.61E+04	1.56E+02	Composite analysis of core sample	3
241-B-202	1.28E-01	8.64E+02	1.19E+04	3.93E+04	6.15E+04	1.12E+04	9.81E+03	9.81E+03	3.23E+02	Composite analysis of core sample	3
241-B-203	1.94E-01	8.39E+02	3.30E+03	2.89E+04	6.22E+04	6.65E+03	2.67E+02	3.34E+03	1.78E+02	Composite analysis of core sample	3
241-B-204	2.39E-01	6.46E+02	3.72E+03	2.63E+04	4.94E+04	7.06E+03	2.81E+02	6.73E+03	1.61E+02	Composite analysis of core sample	3
Metal Waste Sample Analyses											
U-101 (S1)	5.75E-02	5.00E+02	3.80E+02	1.18E+05		5.30E+04	1.10E+03	1.57E+05	2.88E+05	Near tank inlet, near top of sludge	1
U-101 (S2)	2.91E-02	7.00E+01	1.00E+02			3.30E+04	4.10E+03	2.08E+05	3.63E+05	Near tank outlet, 1-ft from bottom	1
T-101 (a)				1.16E+05	5.10E+04	1.11E+05	2.40E+04	3.00E+03	1.12E+05	6/1948, Near tank inlet, depth unknown	2
T-101 (b)				8.50E+04	1.60E+04	1.34E+05	2.20E+04	1.00E+03	1.34E+05	8/1948, Near tank inlet, depth unknown	2
T-101 (2)				1.04E+05		1.28E+05	1.90E+04	1.58E+04	1.62E+05	11/1948, Near tank inlet, 3-ft from bottom	2
T-101 (3)				1.16E+05		1.02E+05	1.20E+04	2.56E+04	2.04E+05	11/1948, Near tank inlet, 2-ft from bottom	2
T-101 (4)				1.37E+05		4.80E+04	8.00E+03	1.15E+05	3.63E+05	11/1948, Near tank inlet, 1-ft from bottom	2
T-101 (5)				1.51E+05		1.60E+04	8.00E+03	2.55E+05	3.46E+05	11/1948, Near tank outlet, 1-ft from bottom	2
T-101 (6)				1.46E+05		1.50E+04	6.00E+03	2.63E+05	3.65E+05	11/1948, Near tank outlet, just off bottom	2
U-101 (13)	2.70E-02			1.27E+05	2.00E+03	6.10E+04	2.80E+03	1.81E+05	3.29E+05	2/1949, Near tank inlet, 4-ft from bottom	2
U-101 (14)	1.29E-02			9.40E+04	3.00E+03	4.90E+04	2.05E+03	1.66E+05	2.63E+05	2/1949, Near tank inlet, 3-ft from bottom	2
U-101 (15)	2.11E-02			1.23E+05	3.50E+03	5.30E+04	2.54E+03	1.62E+05	2.73E+05	2/1949, Near tank inlet, 2-ft, 7-inches from bottom	2
U-101 (16)	2.59E-02			1.08E+05	2.00E+03	5.20E+04	3.03E+03	4.10E+04	2.66E+05	2/1949, Near tank outlet, 3-ft from bottom	2
U-102 (17)	1.83E-02			1.09E+05	3.00E+03	1.36E+05	5.08E+03	6.90E+04	1.06E+05	2/1949, Near tank inlet, 1-inch from bottom	2
U-102 (18)	6.61E-03			8.50E+04	2.00E+03	1.05E+05	9.26E+03	9.00E+04	1.52E+05	2/1949, Near tank outlet, 1-inch from bottom	2

Notes:

Ref. 1: HW-18492, *Settling and Dissolution Characteristics and Composition of Hanford Waste Metal Sludge.*
Ref. 2: Letter HW-14157, "Compilation of Data on Composition of Bismuth Phosphate Process Metal Wastes."
Ref. 3: Best Basis Inventory obtained from the Tank Waste Information System on October 7, 2002. See http://twins.pnl.gov:8001/twins.htm

4.0 TRANSURANIC ANALYSES OF WASTES

The Department of Energy uses several factors to determine the disposition of radioactive wastes (DOE M 435.1). One of these factors is the concentration of alpha-emitting transuranic isotopes with half-life greater than 20-years.

Core samples of the wastes in tanks 241-B-201 and 241-B-202 were obtained in 1991. Core samples of the wastes in tanks 241-B-203 and 241-B-204 were obtained in 1995. Core samples of the wastes in tanks 241-T-201 through 241-T-204 were obtained in 1997. The sludges collected in these core samples were analyzed to determine the composition of these wastes as well as the concentration of alpha emitting radionuclides (gross alpha analysis).

The mean gross alpha analyses, 95% lower confidence limit and 95% upper confidence limit for the wastes in tanks 241-B-201 through 241-B-204 and tanks 241-T-201 through 241-T-204 are provided in Table 4-1 (Wilmarth 2002). Uranium-238, which is not a transuranic element would be included in the gross alpha analysis. The gross alpha analysis would tend to over estimate the sum of the concentrations of alpha-emitting transuranic isotopes with half-life greater than 20 years. This is substantiated by the analyses of the core samples from tank 241-B-201 and 241-B-202, which were also analyzed to determine the concentrations of Pu^{238}, Pu^{239}, Pu^{240}, and Am^{241} in these sludges (see Table 4-2).

The gross alpha analyses for the waste in each tank is clearly in excess of 100ηCi/g. The sum of the concentrations of Pu^{238}, Pu^{239}, Pu^{240}, and Am^{241} for the sludges in tanks 241-B-201 and 241-B-202 also indicate that the concentration of transuranic elements with half-life greater than 20-years is also in excess of 100ηCi/g.

Table 4-1. Gross Alpha Analyses for Sludge.

Tank	Mean (ηCi/g)	Relative Standard Deviation	95% Low Confidence Limit	95% Upper Confidence Limit
B-201	1,310	13%	1,030	1,590
B-202	398	9%	338	457
B-203	215	9%	184	245
B-204	265	9%	226	303
T-201	757	21%	490	1,024
T-202	223	12%	180	265
T-203	196	12%	157	234
T-204	144	10%	120	169

Table 4-2. Transuranic Element Analytical Results for Sludges.

Radionuclide	241-B-201	241-B-202
	Concentration (ηCi/g)	Concentration (ηCi/g)
Pu^{238}	6.4	2.1
Pu^{239}	751	127.9
Pu^{240}	43.2	21.7
Am^{241}	28.5	65.0
Sum	829.1	216.7

5.0 SUMMARY

Tanks 241-B-201 through 241-B-204 received waste from the plutonium concentration activities conducted from October 1946 through June 1952 in the 224-B Concentration building. Following cessation of spent nuclear fuel processing activities in the 221-B Bismuth Phosphate Plant and cleanout of the plant inventory, tanks 241-B-201 through 241-B-204 received flush solutions from equipment cleanout in the 221-B and 224-B buildings and metal waste transfer lines.

Tanks 241-T-201 received waste from plutonium concentration activities conducted from November 4, 1946 through May 24, 1949 in the 224-T Concentration building. Tanks 241-T-202 through 241-T-204 received wastes from plutonium concentration activities conducted from May 24, 1949 through May 29, 1952 in the 224-T Concentration building.

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APPENDIX A

WASTE STATUS SUMMARY REPORTS

RPP-13300, Rev.0

DDTS Detailed Document Report

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Categories: Health, Safety and Environment Waste Management

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DEL COPY REQUIRED: YES (NO)

DOCUMENT NUMBER _____ RPP-13300, Rev. 0

PRIMARY & SECONDARY CATEGORIES

1. Specific Materials
   - ____ Deuterium
   - ____ Fission Products
   - ____ General
   - ____ High Explosives
   - ____ Lithium
   - ____ Plutonium
   - ____ Transplutonic Elements
   - ____ Tritium
   - ____ Uranium

2. Reactors
   - ____ Aircraft, Rocket & Space Reactors
   - ____ Army Nuclear Power Package Program
   - ____ Civil Power Reactors
   - ____ Experimental Breeder Reactors
   - ____ General
   - ____ Miscellaneous & Other Reactor Topics
   - ____ Naval Nuclear Propulsion
   - ____ Production Reactors
   - ____ Research & Test Reactors & Small Experimental Reactors

3. Nuclear Weapons & Related Technology
   - ____ Fission Weapons
   - ____ General
   - ____ Military Utilization
   - ____ Nuclear Directed Energy Systems
   - ____ Nuclear Tests
   - ____ Nuclear Warfare & Civil Defense
   - ____ Nuclear Weapons Effects
   - ____ Other Weapon Topics
   - ____ Plowshare Program
   - ____ Theory, History & Development
   - ____ ThermoNuclear Weapons

4. Health, Safety & Environment
   - ____ Environmental Effects
   - ____ General
   - ____ Public Health & Safety
   - ____ Waste Management
   - ____ Worker Health & Safety

5. National Security, Policy, Warfare
   - ____ Arms Control
   - ____ General
   - ____ Other
   - ____ Radiological, Chemical, Biological & Conventional ...
   - ____ Safeguards & Security

6. General, Miscellaneous, Administrative, Historical and Multi-Disciplined Progress Reports
   - ____ General

7. Controlled Fusion
   - ____ General
   - ____ Inertial Confinement Fusion
   - ____ Magnetic Fusion

8. Isotope Separation
   - ____ Electromagnetic Processes
   - ____ Gas Centrifuge
   - ____ Gaseous Diffusion
   - ____ General
   - ____ Laser Isotope Separation
   - ____ Other Isotope Separation Information
   - ____ Thermal Diffusion

9. Radioisotope Power Supplies, Including Isotopic Systems ...
   - ____ General

10. Science & Technology
   - ____ Biology & Medicine
   - ____ Chemistry
   - ____ General
   - ____ Geology, Hydrology, Seismology, Site Studies
   - ____ Instruments & Equipment
   - ____ Mathematics
   - ____ Metallurgy
   - ____ Particle Accelerators & High Voltage Machines
   - ____ Physics

KEYWORDS

- ____ 100 Area
- ____ 1100 Area
- ____ 200 West Area
- ____ 200 East Area
- ____ 300 Area
- ____ 3000 Area
- ____ 600 Area
- ____ 700 Area
- ____ ALE
- ____ Aviation and Space Technology
- ____ B Plant/WESF
- ____ B Reactor
- ____ Casting
- ____ Columbia River
- ____ D Reactor
- ____ DR Reactor
- ____ Earth and Space Science
- ____ F Reactor
- ____ FFTF
- ____ Fuel Fabrication
- ____ Fuel Recycle
- ____ Fuel Handling
- ____ Fuels and Materials Engineering
- ____ Groundwater
- ____ H Reactor
- ____ Isotopes
- ____ KE Reactor
- ____ KW Reactor
- ____ Metallurgy
- ____ N Reactor
- ____ Nuclear Materials Control and Accountability
- ____ Physical Protection and Security
- ____ Plutonium Finishing Plant
- ____ Pollution and Control
- ____ PUREX
- ____ Radiation and Radiation Protection
- ____ Radiobiology
- ____ Reactor Technology
- ____ REDOX
- ____ S Plant
- ____ Separation Processes and Procedures
- ____ Stockpile
- ____ T Plant
- ____ U Plant
- ____ UO3 Plant
- ____ Waste Treatment and Disposal
- ____ Weapon Design

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WASTE STATUS SUMMARY

Period: April, May and June, 1952

Classification Cancelled and Changed to
Declassified
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By R. E. Barber
Verified By J. P. Deraud

SPECIAL RE-REVIEW
FINAL DETERMINATION
DECLASSIFICATION CONFIRMED
BY Burthammer DATE Aug 16, 1995
BY J.D. Briggs DATE 8/17/95
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A.C. Morganthaler
Planning & Scheduling Group
Waste Control
Manufacturing Department

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WASTE STATUS SUMMARY
SEPARATIONS-OPERATIONS

0 02

Month of April, 1952

	B Plant	T Plant
Runs of Metal Waste to waste farm during the month	7	59
Gals. increase in Metal Waste volume	22,684	165,000
Gals./Run average Metal Waste volume	2,927 *	2,797
Reserve Gals. available for Metal Waste on 4/30/52	1,673	1,906
Runs of First Cycle Waste sent to farm during the month	7	66
Gals. increase in First Cycle Waste volume	22,000	160,000
Gals./Run average First Cycle Waste volume	3,142	2,424
Reserve Gals. available for First Cycle Waste on 4/30/52	1,131	2,444

Remarks: * Average computed after correcting line #2 for 2 AW runs and 1 Bicarbonate flush (1244 + 957)

	S Plant
Batches equivalent to 6-3 MS product content contributing to make-up of waste	115.86
Gallons increase in fission product waste storage	324,500
Tons of Uranium (as-charged), processed, to contribute to make-up of waste	81.14
Gallons/batch equivalent to 6-3 MS	2,315
Gallons per ton of Uranium processed	3,999
Reserve Gallons available for Redox waste on 4/30/52	8,271

Remarks: * During the month of February a 21% discrepancy between amount of waste sent versus amount of waste received in storage existed. The variation this month between these two figures was less than 1%.

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WASTE STORAGE STATUS

As of 4/30/52

METAL WASTE

FARM	Gallons x 10³ In Storage Begg Mon	Metal Waste Received	In Storage End Mon	Reserve Capacity In Batches
EAST AREA				
B	1579		1579	
C	3374		3374	
BX	3117		3117	23
BY	4389	23	4412	604
TOTAL	12459	23	12482	627
WEST AREA				
T	1579		1579	
U	4737	(1579)	3158	
TX	5489	165	5654	132
TY				558**
TOTAL	11805	165	10391	790

*REMARKS: *Reserve capacity at 2700* Gallons per batch

** The present plan is to allocate 101-102TY to Redox reserves and give equivalent space in U farm to T plant for metal waste storage. This would eliminate the necessity of completing the removal facilities in TY farm. (Removal facilities are now available in U farm). This plan requires that a cascade become available in U farm before 106TX, the present T plant metal waste tank, is filled.

( ) Metal waste in 101-102-103 U slurrying for T2P feed.

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H-2902.02-X 4-52

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0 04

WASTE STORAGE STATUS

As of 4/30/52

URANIUM CONTENT
METAL WASTE

PARM	TONS			
	In Storage Beg. Mos	Received	* To TBP	In Storage End Mos
EAST AREA				
B	385			385
C	841			841
BX	762			762
BY	1,055	4		2,059
TOTAL	3,043	4		3,047
WEST AREA				
T	375			375
U	1,377		105	1,272
TX	1,260	37		1,297
TY				
TOTAL	2,812	37	105	2,944

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying

REMARKS: April increase based on 0.622 tons of uranium per run - this is based on 600 MWD/ton average.

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H-2908.03-X 4-52

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WASTE STORAGE STATUS

0 05

As of 4/30/52

FIRST CYCLE WASTE

FARM	Gallons x 10³ In Storage Beg. Mo.	1st Cycle Waste Rec'd	Feed To Evaporator	In Storage End Mo.	* Reserve Cap. In Batches
EAST AREA					
B	3,060			3,060	
Evaporator Feed Tank - 106 B	233		54	187	123
C	3,039		496	2,543	221
BX	3,175			3,175	
BY	2,066	22		2,108	58
TOTAL	9,493	22	442	9,073	405
WEST AREA					
T	2,910			2,910	
U	2,585		687	898	
TX	2,176	260		2,336	374
Evaporator Feed Tank - 118 TX	69		280	340	216
TY					
TOTAL	4,740	260	605	4,493	1,020

* Reserve Capacity of 2,800 gallons per batch.
( ) Not included in totals.

REMARKS:

H-2002.04-X 4-52

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WASTE STORAGE STATUS

0 06

As of 4/30/52

SECOND CYCLE WASTES

	Cascade In Use	Gallons * 10³		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	110-111-112-B	120	401 **	3,065
WEST AREA	110-111-112-T	14	666	3,140
TOTAL		134	1,067	6,205

REMARKS: * Reserve calculations based on 0.10" sludge/run combined 5-6 to 2nd cycle only.

** Estimated sludge on 5-1-52.

224 BUILDING WASTES

	Cascade In Use	Gallons * 10³		Estimated Reserve Capacity In Batches
		Cribbed	*Sludge	
EAST AREA	204-203-202-B	88	166	512 **
WEST AREA	203-201-T	173	187	255 runs***
TOTAL		261	348	767

REMARKS: * Reserve capacity @ 0.10" sludge/run @ based on sludge reading 5/4/52. 145 reserve runs in 204,203,202-T and 110 reserve runs in 201-T.

** Reserve capacity at 0.10"/run - based on 4/2/52 readings @ 282 runs in tanks 204, 203, 202 and 230 runs in tank 201.

*** Basis @ 190 gal/inch of sludge.

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WASTE STORAGE STATUS

0 07

As of 4/30/52

TBP WASTE

FARM	TBP Gallons x 10^3 In Storage Beg. Mo.	Total Waste Received	In Storage End Mo.	Reserve Capacity
EAST AREA				
B				
C				
BX				
BY				
TOTAL				
WEST AREA				
T				2,263
U				216
TX				
TY				3,110
TOTAL				4,589

- Supernate tanks, 209 BY and 225 TX not included in the above.

Gallons x 10^3 of condensate to grib

Ratio: * Feed to Waste

During Month

Cumulative to date

* Feed adjusted to metal waste equivalent

REMARKS: 216,000 gal. in 200-U series allocated to TBP wastes.

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[redacted] STE STORAGE STATUS

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As of 4/30/52

WASTE EVAPORATOR

FARM	Gallons x 10^3 Feed	Bottoms	Condensate To Cribs	Reserve Bottoms Space
EAST AREA				
B		122		854
C	442			
BX				
BY				
TOTAL	442	122	320	854
WEST AREA				
W				
U	407			
TX		312		466
TY				
TOTAL	407	312	295	466

REMARKS:

REDOX WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.	Waste Received	In Storage End Mo.	** Reserve Capacity In Batches
S Farm	356	325	681	2,970
*U Farm				
TOTAL	356	325	681	2,970

Gallons x 10^3 of condensate to crib 390

* Will be considered as Redox reserve capacity when empty.

** Reserve Capacity at 2,815 gallons per 6-3 equivalent batch based on current month's performance.

REMARKS:

[redacted]

H-2-102.07-X 4-52

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STATUS OF WASTE FARMS

	* Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Cap. Gallons x 10^3	Reserve Cap. In Batches	Remarks
B Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1C	530	530			
105	1C	530	530			
106	1C	530	187	343	123	1st Cycle Evaporator & Feed Tank
107	EB	530	220	310		
108	EB	530	501	29		Bottoms tank & now filling
109	EB	530	10	515		
110	2C	530	530			
111	2C	530	530			Active Cascade B Farm
112	2C	542	542			
201	224	54.5	54.5			Cascading to crib
202	224	54.5	54.5			Active Cascade & 224-B
203	224	54.5	54.5			
204	224	54.5	54.5			Cascading 204, 203, 202 to crib
						Idle
C Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	1C	530	399	131	47	
108	1C	530	34	496	177	Finished pumping 4-15-52
109	1C	530	525			
110	1C	530	530			
111	1C	530	530			
112	1C	530	525			
201	MW	54.5	54.5			
202	MW	54.5	54.5			
203	MW	54.5	54.5			
204	MW	54.5	52.5			

* [redacted] - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

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STATUS OF WASTE FARMS

	* Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
BX Farm						
101	MW	530	530			
102	MW	530	467	63	23	
103	MW	530	530			
104	MW	530	530			
105	MW	530	530			
106	MW	530	530			
107	1C	530	530			
108	1C	530	530			
109	1C	530	530			
110	1C	530	530			
111	1C	530	525			
112	1C	530	530			
BY Farm						
101	MW	758	758			
102	MW	758	758			
103	MW	758	664	83	33	
104	MW	758	758			
105	MW	758	491	267	99	
106	MW	758	[illegible]	747	277	
107	1C	758	758			
108	1C	758	753			
109	TBP	758				Supernate tank
110	1C	758	507	263	98	1C tank now filling @ H Plant
111	MW	758	758			
112	MW	758	225	533	297	MW tank now filling @ B Plant
[illegible] Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	518			
104	1C	530	530			
105	1C	530	530			
106	1C	530	528			
107	1C	530	245	285		Reserved for TBP
108	1C	530	73	457		
109	1C	530	4	527		

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
224 - 224 Bldg. Waste
TBP - TBP Waste
ES - Evaporator Bottoms

H-2302.(9)-X 4-52

A-14

[redacted]

RPP-13300, Rev. 0

HW-27238

STATUS OF WASTE FARMS

0 10

	* Type of Waste	Gallons x 10³ Capacity	Gallons x 10³ Stored	Reserve Capacity Gallons x 10³	Reserve Capacity In Batches	Remarks
T Farm						
110	2C	530	530			Active cascade @ T Plant
111	2C	530	530			
112	2C	569	569			Cascading to crib
201	224	54.5	54.5			
202	224	54.5	54.5			
203	224	54.5	54.5			Cascading to crib
204	224	54.5	54.5			Idle
U Farm						
101	MW	530	530			
102	MW	530	530			Sluicing for feed to TBP
103	MW	530	519			
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	MW	530	530			
108	MW	530	530			
109	MW	530	519			
110	1C	530	336	194		Down to sludge 4/28/52
111	1C	530	[illegible]			Pump now installed here
112	1C	530	32	498		Stopped pumping 4/24/52
201	TBP	54.5		52.5		Plan over ground filling with TBP waste
202	TBP	54.5		54.5		"
203	TBP	54.5		54.5		"
204	TBP	54.5		54.5		"
TX Farm						
101	MW	758	758			
102	MW	758	758			
103	MW	758	758			
104	MW	758	750			
105	MW	758	758			
106	MW	758	758			
107	MW	758	758			
108	MW	758	356	391	132	MW tank now filling - T Plant
109	1C	758	574	184	66	1-C tank now filling - T Plant
110	1C	758	9	749	268	
111	1C	758		758	271	
112	1C	758		753	269	

* MW - Metal Waste
* 1C - First Cycle Waste
2C - Second Cycle
R - Redox Waste
224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

RPP-13300, Rev. 0

[redacted]

HW-27528

STATUS OF WASTE FARMS

0 12

	* Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
TX Farm (cont'd)						
113	EB	758	292	466		
114	1C	758	753			
115	TBP	758				Active - TBP supernate
116	EB	758	758			
117	EB	758	756			
118	1C	758	349	409	116	
TY Farm						
101	[illegible]	758		758	281	
102	[illegible]	758		747	277	
103	TBP	758		758		
104	TBP	758		747		
105	TBP	758		758		
106	TBP	758		747		
S Farm						
101	R	758		758	269	
102	R	758		758	269	
103	R	758		747	265	
104	R	758		758	269	
105	R	758		758	269	
106	R	758		747	265	
107	R	758		758	269	
108	R	758		758	269	
109	R	758		747	265	
110	R	758	681	77	27	
111	R	758		758	269	
112	R	758		747	265	

* MW = Metal Waste
1C = First Cycle Waste
2C = Second Cycle Waste
R = Redox Waste

224 = 224 Bldg. Waste
TBP = TBP Waste
EB = Evaporator Bottoms

H-2902.11-X 4.52

** Redox reserve capacity based on current month's operating averages

[redacted]

RPP-13300, Rev. 0

HW-27838

[redacted]

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WASTE STATUS REPORT

Month of May, 1952

	B Plant	T Plant
Runs of Metal Waste to waste farm during the month	6	21
Gals. increase in Metal Waste volume	13,063	55,000
Gals./Run average Metal Waste volume	2,177	2,619 *
Reserve Gals. available for Metal Waste on 5-30-52	3,669,000	3,842,000
Runs of First Cycle Waste sent to farm during the month	6	18
Gals. increase in First Cycle Waste volume	22,000	42,250
Gals./Run average First Cycle Waste volume	3,667	2,222
Reserve Gals. available for First Cycle Waste on 5-30-52	2,487,000	2,625,000

Remarks: * After correction for 2 AW runs sent to storage during this time, the average volume per run is 2,221 gallons.

	S Plant
Bismuth phosphate batch equivalents	124.50
Gallons increase in fission product waste storage	342,530
Tons of Uranium, (as charged), processed, to contribute to make-up of waste	78.73
Gallons/batch equivalent to 6-3 MS	2,749
Gallons per ton of Uranium processed	4,351
Reserve Gallons available for Redox waste on 6-1-52	8,045,000

Remarks: * Last month this figure was reported at 3,999 gal/ton, on 5-19-52 an error was found in the calculated amount of uranium charged to extraction, which gave a corrected figure of 4,687 gal/ton. This month's figure of 4,351 gal/ton is based on preliminary uranium inventory figures.

H-2002.(U-X 5-2)

[redacted]

A-17

RPP-13300, Rev. 0

HW-27838

[redacted]

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~~8-18~~

WASTE STORAGE STATUS

As of 5-31-52

METAL WASTE

PLANT	Gallons x 10³ In Storage Beg. Mo.	Metal Waste Received	In Storage End Mo.	Reserve Capacity in Batches*
EAST AREA				
B	1,579		1,579	
C	3,374		3,374	
UR	3,337		3,337	23
TK	4,432	33	4,465	595
TOTAL	12,682	33	12,695	618
WEST AREA				
T	1,579		1,579	
U	4,737	(1,579)	4,737	
TX	5,654	55	5,709	124
TY	MT		MT	558
TOTAL	11,970	55	12,025	682

REMARKS: *Reserve capacity at 2,700 Gallons per batch

( ) Metal waste in 101-102-103-U slurrying for TBP feed.

U-2702.02M 6-52

[redacted]

A-18

RPP-13300, Rev. 0

HW-27830

[redacted]

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WASTE [illegible]

As of 5-31-52

URANIUM CONTENT
METAL WASTE

FARM	TONS PURE URANIUM * In Storage Beg. Mo.	Received	To TBP	In Storage End Mo.
EAST AREA				
B	385			385
C	842			842
BX	762			762
BY	1,059	5		1,064
TOTAL	3,847	5		3,852
WEST AREA				
T	375			375
U	772			772
TX	1,297	11		1,308
TY	-			-
TOTAL	2,444	11		2,455

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying.

REMARKS: ## Metal in tank 101-102-103 U equal to 405 tons has been credited to TBP. This does not show as uranium present in totals.

May increase based on 0.622 tons of uranium per run. This is based on 600 MWD/ton average.

H-2202.03-X 4-52

[redacted]

A-19

RPP-133004 Rev. 0

[redacted]

HW-27838

WASTE [illegible]

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As of 5-21-52

FIRST CYCLE WASTE

Area	Gallons x 10³ In Storage Beta Tks	Gallons x 10³ Last Cycle Waste Recd	Gallons x 10³ Feed To Evaporator	Gallons x 10³ In Storage Alpha Tks	Reserve Capacity In Batches
EAST AREA					
B **	1,060			1,060	
Evaporator Feed Tank - 106 B	187		38	225	320
C	9,543		425	2,118	376
CX	3,175			3,175	
DY	2,108	22		2,130	88
TOTAL	9,073	22	388	8,707	584
WEST AREA					
T	1,910			1,910	
U	898		516	382	
TX **	1,336	41		1,377	859
Evaporator Feed Tank - 118 TX	349		187	536	79
TY					
TOTAL	4,493	41	329	4,205	938

* Reserve Capacity at 2,800 gallons per batch

( ) Not included in totals

REMARKS: ** Excluding 106-B and 118-TX evaporator feed tanks.

[redacted]

H-2902-04-X 6-52

RPP-13300, Rev. 0 HW-27856

[redacted]

WASTE STORAGE STATUS

~~0-16~~ 17

As of 5-31-52

SECOND CYCLE WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	110-111-112 B	21	403	3,059
WEST AREA	110-111-112 T	36	672	2,454***
TOTAL		57	1,075	

REMARKS: ** Reserve calculations based on 225 gal/run combined 5-6 and 2nd cycle only, or 275 gal/run and 75 gallons on sludge per run from 224 Bldg.

*** Assuming 224 wastes with 2nd cycle and 5-6 wastes to give a total sludge volume of 350 gal/run.

224 BUILDING WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	204-203-202 B	26	166	506
WEST AREA 5-29	203-202 T 110-111-112 T	115	187	Combined with 2nd cycle above
TOTAL		141	353	506

REMARKS: On 5-29-52, 224-T wastes were tied into 5-6 stream feeding to 110-111-112 T at diversion box 241-152-T. Thus in 200 West Area 5-6, 2nd cycle, and 224 wastes are all combined in these tanks.

H-2902-05-X 4-52

[redacted]

A-21

RPP-13300/Rev.0 [redacted]

HW-27838

~~0-17~~ 18

STORAGE STATUS

As of 5-31-52

TBP WASTE

FARM	In Storage Beg. Mo.	THF Received	In Storage End Mo.	Reserve Capacity
	Gallons x 10³			
EAST AREA				
B				
C				
BX				
BY				
TOTAL				
WEST AREA				
T				1,263
U		8		216
TX				
TY				3,110
TOTAL				4,589

Supernate tanks, 109 BY and 115 TX not included in the above.

Gallons x 10³ of condensate to crib _____

Ratio: * Feed to Waste.

During Month _____

Cumulative to date _____

* Feed adjusted to metal waste equivalent.

REMARKS: Present plan is to store cold-start up wastes of 10 g/liter and under in 200-U tanks; if over 10 g/liter to send it to 115-TX supernatant tank for reworking.

For hot TBP wastes: if 10 g/l or less to discard to current TBP waste storage tanks; if between 10-32 g/l (up to 25% of metal content in feed) to be discarded into T Plant current BX cascade.

H-2902.06-X 4-52

RPP-13300, Rev. 0

HW-27830

As of 5-31-52

[redacted]

WASTE EVAPORATOR

FARM	Gallons x 10^3 Feed	Bottoms	Condensate To Cribs	Reserve Bottoms Space
EAST AREA				
B		93		761
E	388			
BX				
BY				
TOTAL	388	93	295	761

108-B filled with bottoms 5-14-52. 109-B into service 5-15-52.

WEST AREA				
T				
U	329			
TX		96		370
TY				
TOTAL	329	96	233	370

REMARKS: 110,111,112-U tanks are not emptied to sludge; tanks remaining to evaporate in 200 West area are 114-TX and cascade 104,105,106-T which filled 3-31-52.

REDOX WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.	Waste Received	In Storage End Mo.	** Reserve Capacity In Batches
S Farm	681	343	1,024	2,905
SU Farm				
TOTAL	681	343	1,024	2,905

Gallons x 10^3 of condensate to crib 387.

* Will be considered as Redox reserve capacity when empty.

** Reserve Capacity at 2,744 gallons per 6-J equivalent batch

REMARKS: 110-S tank cascaded to 111-S on 5-9-52.

H-2002.CT-X 4-52

[redacted] A-23

HW-27838

[redacted]

RPP-13300, Rev. 0

STATUS OF WASTE FARMS

	* Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Cap. Gallons x 10^3	Reserve Cap. In Batches	Remarks
B Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1C	530	530			
105	1C	530	530			
106	1C	530	225	300	120	1st Cycle Evaporator - Feed Tank
107	EB	530	220	310		
108	EB	530	530			
109	EB	530	74	451		Bottoms tank - now filling
110	2C	530	530			Active Cascade - B Plant
111	2C	530	530			
112	2C	542	542			Cascading to crib
201	224	54.5	54.5			Active Cascade - 224-B
202	224	54.5	54.5			
203	224	54.5	54.5			Cascading 204,203,202 to crib
204	224	54.5	54.5			Idle
C Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	1C	530	399	131	47	
108	1C	530	34	496	177	
109	1C	530	535			
110	1C	530	530			
111	1C	530	530			
112	1C	530	29	476	152	Tank - last [illegible]
201	TBP	54.5	54.5			
202	TBP	54.5	[illegible]			
203	TBP	54.5	[illegible]			
204	TBP	54.5	[illegible]			

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

[redacted] A-24.

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STATUS OF WASTE FA[redacted]

[redacted]

0 20

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
BX Farm						
101	MW	530	530			
102	MW	530	467	63	23	
103	MW	530	530			
104	MW	530	530			
105	MW	530	530			
106	MW	530	530			
107	1C	530	530			
108	1C	530	530			
109	1C	530	530			
110	1C	530	530			
111	1C	530	525			
112	1C	530	530			
BY Farm						
101	MW	758	758			
102	MW	758	758			
103	MW	758	664	83	31	
104	MW	758	758			
105	MW	758	491	267	99	
106	MW	758	[illegible]	747	277	
107	1C	758	758			
108	1C	758	753			
109	TBP	758	[illegible]			Supernate tank
110	1C	758	618	[illegible]	[illegible]	[illegible] tank now filling [illegible] Plant
111	MW	758	758			
112	MW	758	238	509	188	MW tank now filling [illegible] B Plant
T Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1C	530	530			
105	1C	530	530			
106	1C	530	528			
107	1C	530	245	285		Reserved for TBP
108	1C	530	73	[illegible]		
109	1C	530	4	[illegible]		

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
[illegible]

224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

[redacted]

[redacted] RPP-13300, Rev 0

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STATUS OF WASTE TANKS

	* Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
Farm						
110	2C	530	530			Active cascade - T Plant
111	2C	530	530			
112	2C	569	569			Cascading to crib
201	224	54.5	54.5			These 4 tanks out of service 5-29-
202	224	54.5	54.5			
203	224	54.5	54.5			
204	224	54.5	54.5			
Farm						
101	MW	530	530			
102	MW	[illegible]	530			Sluicing for feed to TBP
103	MW	[illegible]	519			
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	MW	530	530			
108	MW	530	530			
109	MW	530	519			
110	1C	530	336	194		
111	1C	530	14	516		
112	1C	530	32	498		
201	TBP	54.5		52.5		Plan over ground filling with TBP waste
202	TBP	54.5		54.5		" " "
203	TBP	54.5		54.5		" " "
204	TBP	54.5		54.5		" " "
TX Farm						
101	MW	758	758			
102	MW	758	758			
103	MW	[illegible]	758			
104	MW	758	750			
105	MW	758	758			
106	MW	758	758			
107	MW	758	758			
108	MW	758	411	[illegible]	[illegible]	MW tank now filling - T Plant
109	1C	758	[illegible]	[illegible]	[illegible]	1-C tank now filling - T Plant
110	1C	758	[illegible]	[illegible]	[illegible]	
111	1C	758	[illegible]	[illegible]	[illegible]	
112	1C	758	[illegible]	[illegible]	[illegible]	

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle
R - Redox Waste
[illegible] - [illegible] Waste
TBP - TBP Waste
[illegible] - [illegible]

[redacted]

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HW-27738

[redacted]

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STATUS OF WASTE FORMS

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
TX Farm (cont'd)						
113	EB	758	380	370	-	
114	IC	758	751			
115	TBP					Active - TBP supernate
116	EB	758	758			
117	EB	758	756			
118	IC	758	536	222	79	Evaporator feed tank
TY Farm						
101	MW	758		758	281	
102	MW	758		747	277	
103	TBP	758		758		
104	TBP	758		747		
105	TBP	758		758		
106	TBP	758		747		
S Farm						
101	R	758		758	277	
102	R	758		758	277	
103	R	758		747	273	
104	R	758		758	277	
105	R	758		758	277	
106	R	758		747	273	
107	R	758		758	277	
108	R	758		758	277	
109	R	758		747	273	
110	R	758	774		-	
111	R	758	249	509	186	Active tank
112	R	758		747	273	

- MW = Metal Waste
- IC = First Cycle Waste
- SC = Second Cycle Waste
- R = Redox Waste
- 224 = 224 Bldg. Waste
- TBP = TBP Waste
- EB = Evaporator Bottoms

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[redacted]

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HW-27838

[redacted]

[redacted]

Month of June, 1952

[redacted]

	B Plant	T Plant
Runs of Metal Waste to waste farm during the month	5	16
Gals. increase in Metal Waste volume	13,750	49,500
Gals./Run average Metal Waste volume	2,292	3,094
Reserve Gals. available for Metal Waste on 7-1-52	1,655,000	1,791,000
Runs of First Cycle Waste sent to farm during the month	7	17
Gals. increase in First Cycle Waste volume	19,250	57,750
Gals./Run average First Cycle Waste volume	2,750	3,397
Reserve Gals. available for First Cycle Waste on 7-1-52	1,719,000	2,889,000

Remarks: Higher average volume per run on 1st cycle and MW for T Plant, in part due to increased volumes for processing I.P. runs.

	S Plant
Bismuth Phosphate Batch Equivalent	90.57
Gallons increase in fission product waste storage	264,000
Tons of Uranium (as charged), processed, to contribute to increase of waste	54.84
Gallons/batch equivalent to 6-3 MS	* 2,917
Gallons per ton of Uranium processed	* 4,814
Reserve Gallons available for Redox waste on 7-1-52	7,781,000

Remarks: * The increase in waste volumes for the month of June was principally the result of abnormal uranium rework.

[redacted]

H-Rpt2.01-X 3-52

RPP-13300, Rev. 0 [redacted]

HW-27138

[redacted] WASTE STORAGE STATUS

[redacted]

As of 6-30-52

[redacted]

METAL WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.	Metal Waste Received	In Storage End Mo.	Reserve Capacity In Batches
EAST AREA				
B	1,579		1,579	
C	3,374		3,374	
BX	3,117		3,117	23
BY	4,425	14	4,439	590
TOTAL	12,495	14	12,509	613
WEST AREA				
T	1,579		1,579	
U	4,737	(1,579)	4,737	
TX	5,709	50	5,759	106
TY	MT	-	MT	558
TOTAL	12,025	50	12,075	664

REMARKS: *Reserve capacity at 2,700 Gallons per batch.

(1) Metal waste in 101-102-103-U slurrying for TBP feed.

[redacted]

7702.02-X 4-52

[redacted]

RPP-13300, Rev. 0

HW-27138

[redacted]

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WASTE STORAGE STATUS

[redacted] as of 6-30-52

URANIUM CONTENT
METAL WASTE

PLANT	TONS Uranium In Storage Beg. Mo.	Received	* To TBP	In Storage End Mo.
EAST AREA				
B	385			385
C	841			841
BX	762			762
BY	1,064	6		1,070
TOTAL	3,052	6		3,058
WEST AREA				
T	375			375
U	772		**	772
TX	1,308	13 & 5***		1,326
TY	-		-	-
TOTAL	2,455	13		2,473

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying.

NOTES: ** Metal in tanks 101-102-103 U equal to 405 tons of uranium has been crushed to TBP. This does not show as uranium present in totals.

June increase is for all runs having June serial numbers not necessarily in storage at month end.

*** Cold uranium sent from TBP Building to 115 TX (see TB2 waste).

[redacted]

[redacted]

H-[illegible]2.03-X 4-52

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RPP-13300, Rev. 0

HW-27835

[redacted] STORAGE STATUS

[redacted] of 6-30-52

[redacted]

FACILITY	Gallons x 10^3				*
	In Storage Beg. Mo.	1st Cycle Waste Recd	Feed To Evaporator	In Storage End Mo.	Reserve Cap In Batches
EAST AREA					
B **	1,060	-	-	1,060	-
Evaporator Feed Tank - 106 B	225	-	32	193	120
[illegible]	2,117	-	214	1,903	452
TX	3,175	-	-	3,175	-
TX	2,130	19	-	2,149	41
TOTAL	8,707	19	246	8,480	613
WEST AREA					
[illegible]	1,910	-	-	1,910	-
H	382	-	-	382	-
TX **	1,377	58	195*	1,240	838
Evaporator Feed Tank - 118 TX	536	-	331	205	198
[illegible]	-	-	-	-	-
TOTAL	4,205	58	526	3,737	1,036

* Reserve Capacity at 2,800 gallons per batch

( ) Not included in totals.

Remarks: ** Excluding 106-B and 118-TX evaporator feed tanks. Tank 113-TX containing 75,000 gal. 1st cycle waste will be designated as Evaporator Bottoms Storage Tank when emptied.

[redacted]

[redacted]

[redacted]

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[redacted] 28

WASTE STORAGE STATUS

[redacted] of 6-30-52

[redacted]

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	110-111-112-B	15	407	3,044 **
WEST AREA	110-111-112-T	39	685	2,425 ***
TOTAL		54		

REMARKS: ** Reserve calculations based on storage of combined 5-6 and 2nd cycle only at 275 gallons per run.

*** Reserve calculation based on storage of combined 5-6, 2nd cycle, and 224 wastes at 350 gallons per run.

224 BUILDING WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	204-203-202-B	40	167	500
WEST AREA	204-201-T 110-111-112-T	Inactive Cascade 86	187 Sludge for 110-111-T shown above.	
TOTAL		126	354	500

REMARKS:

[redacted]

[redacted]

H-2-[illegible].05-X 4-52

[redacted]

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RPP-13300, Rev. 0 [redacted] HW-27038

WASTE STORAGE STATUS

[redacted] As of 6-30-52 29

[redacted]

FARM	Gallons x 10^3 In Storage Beg. Mo.	TBP Received	In Storage End Mo.	Reserve Capacity
EAST AREA				
B				
C				
BY				
BX				
TOTAL				
WEST AREA				
T				1,263
U				216
TX				
TY				3,110
TOTAL				4,589

Supernate tanks, 109 BY and 115 TX not included in the above.

Gallons x 10^3 of condensate to crib (216-W) - This calculation is not complete - will be available for next month's report.

Feed to Waste

During Month --

Cumulative to date --

* Feed adjusted to metal waste equivalent

Remarks: 10,991# cold uranium sent to 115-TX tank equal to 193,992 gallons received in 115-TX.

28,746 gallons of waste to ditch equivalent to 149.8 # cold uranium.

[redacted]

[redacted] A-33

RPP-13300, Rev. 0 [redacted] HN-27838

[redacted] 6-30-52

[redacted] 30

WASTE EVAPORATOR

TANK	Gallons x 10^3 Feed	Bottoms	Condensate To Cribs	Reserve Bottoms Space
EAST AREA				
B		98	148	663
C	246			
[illegible]				
[illegible]				
TOTAL	246	98	148	663
WEST AREA				
I				
II				
IX	526	144	382	421
IV				
TOTAL	526	144	382	421*

* 118-IX now pumping; reclaimed space designated as Evap. bottoms reserve space.

REMARKS: 108-C now pumping in East Area.

REDOX WASTE

TANK	Gallons x 10^3 In Storage Beg. Mo.	Waste Received	In Storage End Mo.	Reserve Capacity In Batches
[illegible]	1,024	264	1,288	2,668
[illegible]	-	-	-	
TOTAL	1,024	264	1,288	2,668

Gallons x 10^3 of condensate to crib 222.

* Will be considered as Redox reserve capacity when empty.

** Reserve Capacity at 2,917 gallons per 6-3 equivalent batch

REMARKS: [redacted]

[redacted]

H-2-10 (7-X 6-52)

RPP-13300, Rev. 0 [redacted] HW-27838

SECURITY [redacted] 0 30

[redacted]

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve tank Gallons x 10^3	In Batches	Remarks
B Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1 C	530	530			
105	1 C	530	530			
106	1 C	530	193	337	320	1st Cycle evaporator - Feed tank.
107	EB	530	220	310	-	
108	EB	530	530	-	-	
109	EB	530	172	353	-	Bottom tank - now filling.
110	2 C	530	530			Active cascade - B Plant.
111	2 C	530	530			
112	2 C	542	542			Cascading to crib.
201	224	54.5	54.5			Active cascade - 224-B.
202	224	54.5	54.5			
203	224	54.5	54.5			Cascading 204, 203, 202 to crib.
204	224	54.5	54.5			Idle
C Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	-	[illegible]	399	131	47	
108	1 C	530	34	496	377	
109	1 C	530	313	224	76	Tank - now pumping to 106-B. To be reserved for TBP supernate.
110	1 C	[illegible]	530			
111	1 C	530	530			
112	1 C	[illegible]	99	[illegible]	-	Partially pumped to be finished at a later date.
[illegible]	MW	54.5	54.5			
[illegible]	MW	54.5	54.5			
[illegible]	MW	54.5	54.5			
[illegible]	MW	54.5	54.5			

* - Metal Waste
* - First Cycle Waste
* - Second Cycle Waste
* - Redox Waste

224 - 224 Bldg. Waste

[redacted]

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RPP-13300, Rev. 0

[redacted]

HW-27838

STATUS OF WASTE FARMS

[redacted] 0-32

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Catch	Remarks
BX Farm						
101	MW	530	530			
102	MW	530	467	63	23	
103	MW	530	530			
104	MW	530	530			
105	MW	530	530			
106	MW	530	530			
107	1 C	530	530			
108	1 C	530	530			
109	1 C	530	530			
110	1 C	530	530			
111	1 C	530	525			
112	1 C	530	530			
BY Farm						
101	MW	758	758			
102	MW	758	758			
103	MW	758	664	83	31	
104	MW	758	758			
105	MW	758	491	267	99	
106	MW	758	-	747	277	
107	1 C	758	758			
108	1 C	758	753			
109	TBP	758				Supernate tank.
110	1 C	758	638	115	41	1-C tank now filling - B Plant.
111	MW	758	758			
112	MW	758	252	495	183	MW tank now filling - B Plant.
T Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1 C	530	530			Cascade filled 3-31-52. Next and last cascade of 1st cycle waste to evaporate in West area. To take place after sufficient allowance for aging.
105	1 C	530	530			
106	1 C	530	530			
107	1 C	530	245			TBP - waste - active cascade.
108	1 C	530	73			
109	1 C	530	4			

MW - Metal Waste
1 C - First Cycle Waste
2 C - Second Cycle Waste
R - Redox Waste
TBP - [illegible]

224 - 224 Bldg. Waste

[redacted]

[redacted] A-36 [redacted]

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STATUS OF WASTE FARMS

[redacted] 33

	Type of Waste	Gallons x 10^3 Capacity	Stored	Reserve Capacity Gallons x 10^3	In Kitchen	Remarks
T Farm			[redacted]			
110	224 and 2 C	530	530			Active cascade - T Plant.
111	224 and 2 C	530	530			
112	224 and 2 C	569	569			Cascading to crib.
201	224	54.5	54.5			
202	224	54.5	54.5			
203	224	54.5	54.5			
204	224	54.5	54.5			
U Farm						
101	MW	530	530			Cascading - now slurrying for feed to TBP plant.
102	MW	530	530			
103	MW	[illegible]	519			
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	MW	530	530			
108	MW	530	530			
[illegible]	MW	530	519			
110	1 C	530	336	194		Cascade being held as Redox reserve space.
111	1 C	530	14	516		
112	1 C	530	32	498		
201	TBP	54.5		52.5		Plan overhead filling with TBP waste.
202	TBP	54.5		54.5		" " "
203	TBP	54.5		54.5		" " "
204	TBP	54.5		54.5		" " "
TX Farm						
[illegible]	MW	[illegible]	758			
102	MW	758	758			
103	MW	758	758			
104	MW	758	750			
105	MW	758	758			Cascade set up to receive high TBP wastes in addition to MW from T plant.
106	MW	758	758			
107	MW	758	758			
108	MW	758	461	200	105	[illegible] tank now filling via 107 TX - T plant.
109	1 C	758	673	85	30	1-C tank now filling - T plant.
110	1 C	758	9	749	260	
[illegible]	1 C	758	[illegible]	756	271	
[illegible]	1 C	758	[illegible]	[illegible]	[illegible]	

MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle
R - Redox Waste

[redacted]

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[redacted]

[redacted] STATUS OF WASTE TANKS

[redacted]

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
TX Farm (cont'd)						
113	EB	758	532	226	-	Active bottoms tank - West area.
114	1 C	758	558	195	-	Tank now pumping - reclaimed space to
115	TBP					active TBP supernate; be designated
						as EB.
116	EB	758	758	-		
117	EB	758	756	-		
118	1 C	758	205	553	198	Evaporator feed tank.
TY Farm						
101	MW	758		758	261	
102	MW	758		747	277	
103	TBP	758		758	-	
104	TBP	758		747	-	
105	TBP	758		758	-	
106	TBP	758		747	-	
S Farm						
101	R	758	-	758	**260	
102	R	758	-	758	260	
103	R	758	-	747	256	
104	R	758	-	758	260	
105	R	758	-	758	260	
106	R	758	-	747	256	
107		758	-	758	260	
108	R	758	-	758	260	
109	R	758	-	747	256	
110	R	758	774	-	-	
111	R	758	513	[illegible]	[illegible]	Active tank.
112	R	758	-	747	[illegible]	

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
224 - 224 Plant Waste
TBP - TBP Waste
EB - Evaporator Bottoms

** Reserve figures based on current months average number of gallons per batch equivalent 2,917 gal/batch.

H-2902.11-X 4-52

[redacted]

[redacted]

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DDTS Detailed Document Report

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DEL COPY REQUIRED: YES/NO

DOCUMENT NUMBER RPP-13300, Rev. 0

PRIMARY & SECONDARY CATEGORIES

1. Specific Materials
   - ____ Deuterium
   - ____ Fission Products
   - ____ General
   - ____ High Explosives
   - ____ Lithium
   - ____ Plutonium
   - ____ Transplutonic Elements
   - ____ Tritium
   - ____ Uranium

2. Reactors
   - ____ Aircraft, Rocket & Space Reactors
   - ____ Army Nuclear Power Package Program
   - ____ Civil Power Reactors
   - ____ Experimental Breeder Reactors
   - ____ General
   - ____ Miscellaneous & Other Reactor Topics
   - ____ Naval Nuclear Propulsion
   - ____ Production Reactors
   - ____ Research & Test Reactors & Small Experimental Reactors

3. Nuclear Weapons & Related Technology
   - ____ Fission Weapons
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   - ____ Nuclear Directed Energy Systems
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   - ____ Nuclear Warfare & Civil Defense
   - ____ Nuclear Weapons Effects
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4. Health, Safety & Environment
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5. National Security, Policy, Warfare
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    - ____ Metallurgy
    - ____ Particle Accelerators & High Voltage Machines
    - ____ Physics

KEYWORDS

- ____ 100 Area
- ____ 1100 Area
- ____ 200 West Area
- ____ 200 East Area
- ____ 300 Area
- ____ 3000 Area
- ____ 600 Area
- ____ 700 Area
- ____ ALE
- ____ Aviation and Space Technology
- ____ B Plant/WESF
- ____ B Reactor
- ____ Casting
- ____ Columbia River
- ____ D Reactor
- ____ DR Reactor
- ____ Earth and Space Science
- ____ F Reactor
- ____ FFTF
- ____ Fuel Fabrication
- ____ Fuel Recycle
- ____ Fuel Handling
- ____ Fuels and Materials Engineering
- ____ Groundwater
- ____ H Reactor
- ____ Isotopes
- ____ KE Reactor
- ____ KW Reactor
- ____ Metallurgy
- ____ N Reactor
- ____ Nuclear Materials Control and Accountability
- ____ Physical Protection and Security
- ____ Plutonium Finishing Plant
- ____ Pollution and Control
- ____ PUREX
- ____ Radiation and Radiation Protection
- ____ Radiobiology
- ____ Reactor Technology
- ____ REDOX
- ____ S Plant
- ____ Separation Processes and Procedures
- ____ Stockpile
- ____ T Plant
- ____ U Plant
- ____ UO3 Plant
- ____ Waste Treatment and Disposal
- ____ Weapon Design

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WASTE STATUS SUMMARY

Period: JULY, AUGUST AND SEPTEMBER 1952

Classification Cancelled and Changed To

DECLASSIFIED
By Authority of DOE 1973
By H.E. Kaiser 5-10-82
Verified By J.P. DERRIN

A.C. Morgenthaler
Planning & Scheduling Group
Waste Control
Manufacturing Department
SEPARATIONS SECTION

SPECIAL RE-REVIEW
FINAL DETERMINATION
DECLASSIFICATION CONFIRMED
BY Buzz Damron DATE Aug 19, 1995
BY J.D. Beggs DATE: 8/17/95
Pat Urnau 3-15-96

3-15-96
Buzz Damron
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[redacted]

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Security Information

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[redacted]

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[redacted]

Month of July, 1952

	B Plant	T Plant
Runs of Metal Waste to waste farm during the month	8	36
Gals. increase in Metal Waste volume	28,250	(1) 124,500
Gals./Run average Metal Waste volume	3,406	(2) 3,705
Reserve Gals. available for Metal Waste on 8-1-52	1,636,000	1,687,000
Runs of First Cycle Waste sent to farm during the month	8	36
Gals. increase in First Cycle Waste volume	15,125	122,000
Gals./Run average First Cycle Waste volume	1,891	(3) 3,388
Reserve Gals. available for First Cycle Waste on 8-1-52	(4) 243,000	3,487,000

Remarks: (1) Includes 1720 gallons of uranium waste from Bldg. 321 - 300 Area. See (uranium waste).
(2) From T Plant process only.
(3) High average volume per run due in part to increased volume resulting from processing L.P. [illegible].
(4) Drop in 1st cycle reserve capacity for 200-E Area due to reallocation of space in tank from 241-C to TBP waste reserve system.

	S Plant
Bismuth Phosphate Batch Equivalent	128.43
Gallons increase in fission product waste storage	345,280
Tons of Uranium, (as charged), processed, to contribute to make-up of waste	77.2
Gallons/batch equivalent to 6-3 MS	8,688
Gallons per ton of Uranium processed	4,473
Reserve Gallons available for Redox waste on: 8-1-52	3,433,000

Remarks: Exclude only space available in tank from 241-C.

[redacted]

[redacted]

[redacted]

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H-2002 [illegible]

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[redacted]

[redacted] WASTE STORAGE STATUS

As of 7-31-52

METAL WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.	Metal Waste Received	In Storage End Mo.	Reserve Capacity In Batches
EAST AREA				
B	1,579		1,579	
C	2,274		2,274	
BX	3,117		3,117	23
BY	4,439	19	4,458	583
TOTAL	12,509	19	12,528	606
WEST AREA				
T	1,579		1,579	
U	4,737	(1,579)	4,737	
TX	5,759	105	5,864	67
TY	1T		1T	558
TOTAL	12,075	105	12,180	625

REMARKS: *Reserve capacity at 2,700 Gallons per batch.

( ) Wi in cascade 2-1-U-101-102-103 slurrying for TUP feed.

[redacted]

[redacted]

H-2902.02-X 4-52

[redacted]

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[redacted]

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WASTE STORAGE STATUS

As of 7-31-52

URANIUM CONTENT
METAL WASTE

FARM	TONS DEPLETED URANIUM			
	In Storage Beg. Mo.	Received	* To TBP	In Storage End Mo.
EAST AREA				
B	383			383
C	837			837
HX	758			758
BY	1,064.93	3.50	(1) -10.67	1,057.76
TOTAL (5)	3,042.93	3.50	-10.67	3,035.76
WEST AREA				
T	374			374
U	770			770
TX	1,322.08	24.97 (2)(3)		1,347.05
TY				
TOTAL	2,466.08	24.97		2,491.05 (4)

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying.

REMARKS: (1) Adjustment for loss of 10.67 tons uranium via overflow of 102 BY in Feb., 1951.
(2) Includes 0.41 tons of unreacted metal received on 7-2-52 into 103-TX tank from Bldg. 321 - 300 Area.
(3) Includes 1.77 tons of depleted and decontaminated metal into 115-TX tank from TBP.
(4) Total does not include metal in tank 101-102-103-U now sluicing for feed to TBP Plant.
(5) All uranium storage figures have been adjusted to equal those kept by S.F. Accountability Group.

H-2003.03-X 4-52 Corrected 8/15/52 [redacted]

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[redacted]

[redacted]

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[redacted]

WASTE STORAGE STATUS

As of 7-31-52

FIRST CYCLE WASTE
AND COATING WASTE
~~T AND B TRAINS~~

FARM	Gallons x 10^3				*
	In Storage Begg Mos.	1st Cycle Waste Rec'd	Feed To Evaporator	In Storage End Mos.	Reserve Cap In Batches*
EAST AREA					
B ss	1,060			1,060	-
Evaporator Feed Tank - 106 B	193		(-) 199	392	49
C	1,903		(-) 845	1,058	To THP
UX	3,175			3,175	
BY	2,149	15		2,164	38
TOTAL	8,480	15	646	7,849	87
WEST AREA					
T	1,310			1,310	
U	382			382	
TX ss	1,240	122	555	807	1,063
Evaporator Feed Tank - 118 TX	205		(-) 39	244	180
TY					
TOTAL	3,737	122	516	3,343	1,247

* Reserve Capacity at 2,800 gallons per batch
( ) Not included in totals.

REMARKS: ss Excluding evaporator feed tanks.

[redacted]

[redacted]

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[redacted]

WASTE STORAGE STATUS

[redacted] 7-31-52

SECOND CYCLE WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	110-111-112-B	21	409	3,036 **
WEST AREA	110-111-112-T	93	698	2,377 ***
TOTAL		114	1,107	5,413

REMARKS: ** Reserve calculations based on storage of combined 5-6 and 2nd cycle only at 275 gallons/run.

*** Reserved calculations based on storage of combined 5-6, 2nd cycle, and 224 wastes at 350 gallons/run.

224 BUILDING WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	204-203-202-B	24	168	492
WEST AREA	204-201-T 110-111-112-T	In active cascade 116	187* Sludge & reserve shown with 2nd cycle.	
TOTAL		140	355	492

REMARKS:

[redacted]

H-29C2.05-X 4-52

[redacted]

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[redacted]

WASTE STORAGE STATUS

As of 7-31-52

[redacted]

TBP WASTE

FARM	Gallons x 10^3 In Storage* Beg. Mo.	TBP Waste Received	In Storage End Mo.	Reserve* Capacity
EAST AREA				
B				
C				(3) 2,100
BX				
BY				
TOTAL				2,100
WEST AREA				
T				1,263
U				216
TX		(1) 177		
TY				3,110
TOTAL				4,589

Supernate tanks, 109 BY and 115 TX not included in the above.

*Gallons x 10^3 of condensate to crib (216-W) 605

Ratio: * Feed to Waste

During Month _____

Cumulative to date _____

*Feed adjusted to metal waste equivalent

REMARKS: (1) Waste to 115-TX = 177 x 10^3 gallons equivalent to 1.77 tons of decontaminated and depleted uranium.

(2) Waste to ditch 52 x 10^3 gallons = 1.06 tons of decontaminated and depleted uranium.

(3) Space released by East Area [redacted] 241-C 107,8,9, and 110,11,12 [redacted]

[redacted]

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[redacted]

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As of 7-31-[illegible]

[redacted]

FARM	Gallons x 10^3 Feed	Bottoms	Condensate To Cribs	Reserve Bottoms Space
EAST AREA				
B		223	425	142
C	646			
BX				
BY				
TOTAL	646	223	425	142
WEST AREA				
T				
U				
TX	516	143	373	268
TY				
TOTAL	516	143	373	268

REMARKS:

REDOX WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.	Waste Received	In Storage End Mo.	** Reserve Capacity In Batches
S Farm	1,287	345	1,632	2,766
[illegible] Farm				
TOTAL	1,287	345	1,632	2,766

* Gallons x 10^3 of condensate to crib 362

* Will be considered as Redox reserve capacity when empty.

** Reserve Capacity at 2,688 gallons [redacted]

REMARKS: Additional storage space equal to 1,208,000 gallons is available for Redox wastes in tanks 110-111 [redacted]

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[redacted]

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[redacted]

Date	Capacity				Remarks
HW	530	530			
HW	530	530			
HW	530	529			
1C	530	530			
1C	530	530			
1C	530	592	138	49	(after dumping batch E-1 8-1-52) Evap. feed tank.
EB	530	220	310		
EB	530	530			
EB	530	393	137		Active bottoms tank - East area evap.
2C	530	530			Active cascade - B Plant
2C	530	530			
2C	530	512			Tank 112-B cascades to crib.
22A	54.5	54.5			Active cascade - 224-B
22A	54.5	54.5			
22A	54.5	54.5			Tank 202-B floor to crib.
22A	54.5	54.5			Tank 204-B is idle.
HW	530	530			
HW	530	530			
HW	530	529			
HW	530	530			
HW	530	530			
HW	530	529			
1C	530	399	131		Space allocated to TBP waste receiver
1C	530	34	496		"
1C	530	17	502		" finished pumping 7-25-52.
1C	530	231	299		Space allocated to TBP; inc 7-22-52. finished pump-
1C	530	237	293		Tank pumping at north end; to be held
1C	530	140	379		Space allocated to TBP. for TBP.
HW	54.5	54.5			
HW	54.5	54.5			
HW	54.5	54.5			
HW	54.5	[redacted]			

[redacted]

...al Waste
...st Cycle Waste
...econd Cycle Waste
...edox Waste

274 - Ridge Waste

[redacted]

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[redacted]

	Type of Waste	Gallons Capacity	Gallons Stored	Capacity Gallons x 10^3	Capacity In Batches	Remarks
BX Farm						
101	MW	530	530			
102	MW	530	467	63	23	
103	MW	530	530			
104	MW	530	530			
105	MW	530	530			
106	MW	530	530			
107	1C	530	530			
108	1C	530	530			
109	1C	530	530			
110	1C	530	530			
111	1C	530	525			
112	1C	530	530			
BY Farm						
101	MW	758	758			
102	MW	758	758			
[illegible]	MW	758	684	83	32	
104	MW	758	758			
105	MW	758	491	267	99	
106	MW	758	-	747	277	
107	1C	758	758			
108	1C	758	753			
109	TBP	758				TBP supernate tank - 200 East Area
110	1C	758	653	105	38	1-C tank now filling - B Plant
111	MW	758	758			
112	MW	758	271	476	176	MW tank now filling - B Plant
T Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1C	530	530			Content of cascade will be aged 1
105	1C	530	530			years 3-31-53
106	1C	530	526			
107	1C	530	245	265		Space allocated to TBP waste
[illegible]	1C	530	73	457		" " "
[illegible]	1C	530	4	515		" "

[redacted]

MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste

224 - 224 Bldg. Waste
TBP - TBP Waste

[redacted]

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[redacted]

STATUS OF WASTE FARMS

	Type of Waste	Gallons x 10³ Capacity	Gallons x 10³ Stored	[redacted] Gallons x 10³	[redacted] In Batches	Remarks
T Farm						
110	224-2C	530	530			Active cascade - T Plant
111	224-2C	530	530			
112	224-2C	569	569			112-T cascades to crib
201	224	54.5	54.5			
202	224	54.5	54.5			
203	224	54.5	54.5			
204	224	54.5	54.5			
U Farm						
101	MW	530	530			Cascade now slurrying for feed to TBP Plant.
102	MW	530	530			
103	MW	519	519			
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	MW	530	530			
[redacted]	MW	530	530			
109	MW	530	519			
110	1C	530	336	194		Cascade being held at Redox waste, concrete.
111	1C	530	34	516		
112	1C	530	32	498		
201	TBP	54.5	-	52.5		Plan overhead filling with TBP waste.
202	TBP	54.5	-	54.5		
203	TBP	54.5	-	54.5		
204	TBP	54.5	-	54.5		
TX Farm						
101	MW	758	758			
102	MW	758	758			
103	MW	758	758			
104	MW	758	758			
105	MW	758	758			Cascade now receiving high TBP wastes in addition to T Plant metal wastes.
106	MW	758	758			
107	MW	758	758			
108	MW	758	108	101	67	Active MW tank - T Plant
109	1C	758	758	-	-	Tank filled on Run 7-12-07-DN-18 7-25-5
[redacted]	1C	758	45	713	255	
111	1C	758	[redacted]			
112	1C	758	[redacted]			

* MW - Metal Waste
* 1C - First Cycle Waste
2C - Second Cycle

224 - 224 Bldg. Waste

[redacted]

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[redacted]

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STATUS OF WASTE FARMS

	* Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
TX Farm (cont'd)						
113	EB	758	675	83		Active bottoms tank - West Area.
114	1C	758	4	749	268	pumping stopped 7-11-52
115	TBP					active TBP supernate
116	EB	758	758			
117	EB	758	756			
118	1C	758	244	514	184	Evaporator feed tank
TY Farm						
101	[illegible]	758		758	261	
102	[illegible]	758		747	277	
103	TBP	758		758		
104	TBP	758		747		
105	TBP	758		758		
106	TBP	758		747		
S Farm						
101	R	758		758	282 *	
102	R	758		758	282	
103	R	758		747	278	
104	R	758		758	282	
105	R	758		758	282	
106	R	758		747	278	
107	R	758		758	282	
108	R	758		756	282	
109	R	758		747	276	
110	R	758	75[illegible]			
111	R	758	755			Tank cascaded to 112-S 7-25-52
112	R	758	103	644	240	

* MW = Metal Waste
1C = First Cycle Waste
2C = Second Cycle Waste
R = Redox Waste
224 = 224 Bldg. Waste
TBP = TBP Waste
EB = Evaporator Bottoms

*: Reserve figures for storage in tank [redacted] on Redox current [redacted] 2,688 gallons/batch.

[redacted]-2902-11-X 4-52

[redacted] A-52

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WASTE STATUS REPORT

[redacted]

Month of August 1952

	B Plant	T Plant
Runs of Metal Waste to waste farm during the month	1 run - 4 AW	46
Gals. increase in Metal Waste volume	20,625	132,000
Gals./Run average Metal Waste volume	--	2,870
Reserve Gals. available for Metal Waste on 9-1-52	1,615,000	784,000
Runs of First Cycle Waste sent to farm during the month	1 run - 5½ AW	49
Gals. increase in First Cycle Waste volume	26,125	110,000
Gals./Run average First Cycle Waste volume	--	2,245
Reserve Gals. available for First Cycle Waste on 9-1-52	202,000	2,791,000

Remarks: (1) Tank 241-TX-114 added to T plant MW reserve.

(2) Averages not calculated for B plant since they no longer have production significance.

	S Plant
Bismuth Phosphate Batch Equivalent	166.76
Gallons increase in fission product waste storage	405,780
Tons of Uranium, (as charged), processed, to contribute to make-up of waste	109.4
Gallons/batch equivalent to 6-3 MS	2433 (1)
Gallons per ton of Uranium processed	3709
Reserve Gallons available for Redox waste on 9-1-52	(2) 7,027,000

Remarks: (1) This figure represents a 12% variation from average plant performance which cannot be entirely accounted for by August process changes.

(2) Includes reserve in S Farm only since no lines are available at present to allocated reserves in B and T Farms.

[redacted]

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[redacted]

[redacted] As of 8-31-52

METAL WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.	Metal Waste Received	In Storage End Mo.	Reserve Capacity In Batches
EAST AREA				
B	1572		1572	
C	3374		3374	
TX	3117		3117	23
UY	4468	21	4479	575
TOTAL	12528		12542	598
WEST AREA				
T	1572		1572	
U	4737 (2)	(2)	4737 (1)	(3)
TX	5868	141	6005	220
TY	MT		MT	None (4)
TOTAL	12180		12321	220

REMARKS: Reserve capacity at 2700 gallons per batch

(1) MW in cascade 101-102-103-U slurrying for TBP feed.

(2) Includes 9600 gallons received from TBP plant.

(3) 241-TX-106 tank pumping overground at month end to tank 11LTX. Metal waste reserve increase due to addition of 11LTX to metal waste account.

(4) Reserve space in tanks 241-TY-101 & 2 removed from metal waste account and transferred to Redox reserves because of incomplete removal facilities in these tanks.

[redacted]

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[redacted]

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[redacted]

WASTE STORAGE STATUS

As of 8-31-52

[redacted]

URANIUM CONTENT
METAL WASTE

FARM	TONS*			
	In Storage Beg. Mo.	Received	To TBP	In Storage End Mo.
EAST AREA				
B	383			383
C	837			837
BX	758			758
BY	1057.76	--	--	1057.76
TOTAL	3035.76			3035.76
WEST AREA				
T	374			374
U	770			770
TX	1347.05	29.66 (1)		1376.71
TY	-			
TOTAL	2491.05	29.66		2520.71 (2)

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying.

REMARKS: (1) Includes 1.51 tons from TBP (decontaminated and depleted).

(2) Total does not include metal in tanks 241-U-101-102-103 now sluicing for feed to TBP plant (405 tons)

[redacted]

[redacted]

[redacted]

U-PRG-8-23-X-4-52.

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[redacted]

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WASTE STORAGE STATUS

As of 8-31-52

[redacted]

URANIUM CONTENT
METAL WASTE

FARM	TONS In Storage Beg. Mo.	Received	* To TBP	In Storage End Mo.
EAST AREA				
B	383			383
C	837			837
BX	758			758
BY	1057.76	--	--	1057.76
TOTAL	3035.76			3035.76
WEST AREA				
T	374			374
U	770			770
TX	1347.05	29.66 (1)		1376.71
TY	--			
TOTAL	2491.05	29.66		2520.71 (2)

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying.

REMARKS: (1) Includes 1.51 tons from TBP (decontaminated and depleted)

(2) Total does not include metal in tanks 241-U-101-102-103 now sluicing for feed to TBP plant (405 tons)

[redacted]

[redacted]

H-2 3-03-X 4-52

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[redacted] STATUS

[redacted] 8-31-52

[redacted]

FIRST CYCLE WASTE
AND COATING WASTE
T AND B PLANTS

FARM	Gallons x 10^3 In Storage Beg. Mo.	1st Cycle Waste Rec'd	Feed To Evaporator	In Storage End Mo.	* Reserve Cap In Batches
EAST AREA					
B **	1060		-309	751	--
Evaporator Feed Tank - 106 B	392		-410	402	46
C	1058		[illegible]	727	--
TX	3175			[illegible]	
TY	2164	26		2190	26
TOTAL	7849	26	-630	7245	72
WEST AREA					
T	1910			1910	
U	382			382	
TX **	807	110		917	755 (1)
Evaporator Feed Tank - 118 TX	244		-154	90	242
TY	--			--	
TOTAL	3343	110	-154	3299	997

* Reserve Capacity at 2800 gallons per batch

( ) Not included in totals.

REMARKS: ** Excluding evaporator feed tanks.

(1) Tank 241-TX-114 has been converted to metal waste storage account causing a loss of 258 batches to 1st cycle waste reserve (see Metal waste storage).

[redacted]

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[redacted]

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WASTE STORAGE STATUS

As of 8-31-52

[redacted]

SECOND CYCLE WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	110-111-112-B	21	411	3030 **
WEST AREA	110-111-112-T	99	715	2328 ***
TOTAL		120	1126	5358

REMARKS: ** Reserve calculations based on storage of combined 5-6 and 2nd cycle only at 275 gallons of sludge per run.

*** Reserve calculation based on storage of combined 5-6, 2nd cycle, and 224 wastes at 350 gallons of sludge per run.

224 BUILDING WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	204-203-202-B	39	169	486
WEST AREA	204-201-T 110-111-112-T	Inactive cascade 155	187 sludge and reserve	-- shown with 2nd cycle
TOTAL		194	356	486

REMARKS:

[redacted]

[redacted]

[redacted]

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[redacted]

WASTE STORAGE STATUS

[redacted]

As of 8-31-52

[redacted]

TBP WASTE

FARM	Gallons x10³ In Storage Beg. Mo.	TBP Waste Received	In Storage End Mo.	Reserve Capacity
EAST AREA				
B				
C				2443 (4)
BX				
BY				
TOTAL				2443
WEST AREA				
T				1263
U				216
TX		9 (3)		
TY				3110
TOTAL				4589

Supernate tanks, 109 BY and 115 TX not included in the above.

Gallons x 10³ of condensate to crib 565 (2)(HW) (1) (2)

Ratio: * Feed to Waste

During Month _____

Cumulative to date _____

* Feed adjusted to metal waste equivalent

REMARKS: (1) Includes 0.19 tons of depleted and decontaminated uranium.

(2) In addition to the amount cribbed, 242,000 gallons containing 0.79 tons of decontaminated and depleted uranium were ditched.

(3) 9000 gallons of waste were sent [redacted] 105 active metal waste cascade. This waste contained 1.51 tons of decontaminated and depleted Uranium.

(4) Reserve space has increased during month due to [redacted] nal 1st cycle evaporation.

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[redacted]

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WASTE STORAGE STATUS

As of 8-31-52

W[redacted]

FARM	[redacted] Gallons x 10^3 Feed	Bottoms	Condensate To Cribs	Reserve Bottoms Space
EAST AREA				
B	209	203	427	548 (1)
C	231			
BX				
BY				
TOTAL	640	203	427	
WEST AREA				
T				
U				
TX	154	45	102	38 (2)
TY				
TOTAL	154	45	102	

REMARKS: (1) Bottoms reserve has increased due to pumping of 105-B, a future bottoms tank.
(2) Re-evaporation of bottoms tanks 116-117 and 111 TX to begin in near future to obtain additional bottoms reserve space.

REDOX WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.	Waste Received	In Storage End Mo.	Reserve Capacity In Batches
S Farm	1632	406	2038	2558 (1)
*U Farm				
TOTAL	1632			2558

Gallons x 10^3 of condensate to trib 381

* Will be considered as Redox reserve capacity when [redacted]

** Reserve Capacity at 2750 (2) gallons per 6-3 equivalent batch

REMARKS: (1) Additional Redox [redacted] available in tanks 241-110, 111, 112 and 241-TY-101-102 could [redacted] 1,206,000 and 1,505,000 gallons respectively.
(2) Based on average of [redacted]

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[redacted]

STATUS OF WASTE TANKS

[redacted]

	** Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	[redacted] x 10^3	[redacted] Batches	Remarks
B Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1C	530	530			
105	1C	530	221	309	E.R.	Tank now being pumped to 106-B
106	1C	530	402	128	40	Evap. feed tank
107	EB	530	298	232		Active bottoms tank-East Area Evap.
108	EB	530	530			
109	EB	530	518	7	[illegible]	[illegible] 21, 1952 - switched to 107-B
110	2C	530	530			Active cascade - B plant
111	2C	530	530			
112	2C	542	542			Tank [illegible]-B cascades to crib
201	224	54.5	54.5			Active cascade - 224-B
202	224	54.5	54.5			
203	224	54.5	54.5			202-B flows to crib
204	224	54.5	54.5			204-B is idle
C Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	1C	530	399	131		All space in tanks 107-112C allocated to TBP waste reserve
108	1C	530	34	496		
109	1C	530	10	515		
110	1C	530	231	299		
111	1C	530	36	494		Finished pumping to 106-B 8-2-52
112	1C	530	17	518		Finished pumping to 106-B 8-15-52
201	MW	54.5	54.5			
202	MW	54.5	54.5			
203	MW	54.5	54.5			
204	MW	54.5	54.5			

[redacted]

MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator [redacted]

[redacted]

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[redacted]

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Res[redacted] capacity Gallons x 10^3	Res[redacted] capacity In	Remarks
BX Farm						
101	MW	530	530			
102	MW	530	467	63	23	
103	MW	530	530			
104	MW	530	530			
105	MW	530	530			
106	MW	530	530			
107	1C	530	530			
108	1C	530	530			
109	1C	530	530			
110	1C	530	520			
111	1C	530	525			
112	1C	530	530			
BY Farm						
101	MW	758	758			
102	MW	758	758			
103	MW	758	664	83	31	
104	MW	758	758			
105	MW	758	491	267	99	
106	MW	758	--	747	277	
107	1C	758	758			
108	1C	758	753			
109	TBP	758		758		TBP supernate tank 200 East Area
110	1C	758	679	76	26	
111	MW	758	758			
112	MW	758	292	455	168	
T Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1C	530	530			contents of cascade will be aged
105	1C	530	530	[redacted]		[redacted] 3-31-53, after which time
106	1C	530	528			[redacted]oration will be started
107	1C	530	245	285		space allocated to TBP waste
108	1C	530	73	457		
109	1C	530	4	515	[redacted]	

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

H-2202.09-X 4-52 - [redacted]

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[redacted]

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STATUS OF WASTE TANKS

[redacted]

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
T Farm						
110	224 & 20	530	530			Active cascade at T Plant
111	224 & 20	530	530			
112	224 & 20	569	569			112-T cascades to crib
201	224	54.5	54.5			
202	224	54.5	54.5			
203	224	54.5	54.5			
204	224	54.5	54.5			
U Farm						
101	MW	530	530			Cascade now slurrying for feed to TBP Plant
102	MW	[illegible]	[illegible]			
103	MW	530	519			
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	MW	530	530			
108	MW	530	530			
109	MW	530	519			
110	1C	530	336	194	71**	Cascade being held as Redox waste reserve
111	1C	530	14	516	187	
112	1C	530	32	498	181	
201	TBP	54.5	--	54.5		Plan overhead filling with TBP waste
202	TBP	54.5	--	54.5		
203	TBP	54.5	--	54.5		
204	TBP	54.5	--	54.5		
TX Farm						
101	MW	758	758			
102	MW	758	758			
103	MW	758	758			
104	MW	758	750			
105	MW	758	758			
106	MW	758	758			
107	MW	758	758			[redacted] 114 TX on 8-29-52
108	MW	758	697	60	18	
109	1C	758	758	--	--	
110	1C	758	192	192	215	Tank [illegible] filling T plant 1st cycle
111	1C	758	--	[illegible]	[illegible]	[redacted]
112	1C	758	--	[illegible]	[illegible]	

* MW - Metal Waste
* 1C - First Cycle Waste
2C - Second Cycle
R - Redox Waste

224 - 224 Bldg. Waste
TBP - TBP Waste
EH [redacted]

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STATUS OF WASTE FARMS

[redacted]

	Type of Waste*	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
TX Farm (cont'd)						
113	MW	758	720	30	--	
114	1C & MW	758	13	724	272	started filling 8-29-52 from 116 TX farm
115	TBP					
116	EB	758	758			
117	EB	758	756			
118	1C	758	90	[illegible]	242	Evap.
TY Farm						
101	R	758		758	**	Space reserve transferred to Redox
102	R	758		747	[illegible]	account - Tank 101 and 102
103	TBP	758		758		
104	TBP	758		747		
105	TBP	758		758		
[illegible]	TBP	758		747		
S Farm						
101	R	758		758	** 276	
102	R	758		758	276	
103	R	758		747	272	
104	R	758		758	276	
105	R	758		758	276	
106	R	758		747	272	
107	R	758	67	691	251	tank started filling 8-25-52
108	R	758		758	276	
109	R	758		747	272	
110	R	758	774	--	--	
111	R	758	758	--	--	
112	R	758	442	305	111	cascade abandoned on 8-25-52 because of boiling in tank 110-S

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

224 [redacted]
TBP - TBP Waste
EB - Evaporator Bottoms

** Reserve [illegible] in tank farm 241-S and tanks 101 [illegible] average plant performance of 2750 gallons per batch.

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[redacted] A-64

[redacted]

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WASTE STATUS SUMMARY

[redacted]

[redacted] of September 1952

	B Plant	T Plant
Runs of Metal Waste to waste farm during the month	1 water flush	8
Gals. increase in Metal Waste volume	2060	20600
Gals./Run average Metal Waste volume	- (1)	2575
Reserve Gals. available for Metal Waste on 10/1/52	1,613,000	773,000
Runs of First Cycle Waste sent to farm during the month	10-1/2 AW	5 & 1 AW
Gals. increase in First Cycle Waste volume	43,300	22,000
Gals./Run average First Cycle Waste volume	- (1)	3550 (2)
Reserve Gals. available for First Cycle Waste on 10/1/52	113,000	2,114,000

Remarks: (1) Averages not calculated for B Plant since runs are not of normal size.

(2) T Plant first cycle waste average calculated after correcting for volume of acid wash.

	S Plant
Bismuth Phosphate Batch Equivalent	156.41
Gallons increase in fission product waste storage	390,500
Tons of Uranium, (as charged), processed, to contribute to make-up of waste	96.72
Gallons/batch equivalent to 6-3 MS	2497
Gallons per ton of Uranium processed	4037
Reserve Gallons available for Redox waste on 10/1/52 (3)	6,636,000

Remarks: (3) Includes reserves in S Farm only; 2,713,000 gallons of reserve space are immediately available in 241-U and 241-TY if a tie line is made between Redox system and remainder of waste system.

[redacted]

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[redacted]

[redacted]

[redacted]

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WASTE STORAGE STATUS

As of 9/30/52

METAL WASTE

FARM	Gallons x 10^3 In Storage Beg Mon	Metal Waste Received	In Storage End Mon	Reserve Capacity In Batches
EAST AREA				
B	1579		1579	
C	3374		3374	
EX	3117		3117	23
EY	4479	2	4481	574
TOTAL	12549	2	12551	597
WEST AREA				
T	1579		1579	
U	4737 (1)		4737	
TX	6005	21 (-7) (2)	6019	287
TY	MT		MT	None
TOTAL	12321	14	12335	287

REMARKS: *Reserve capacity at 2700 Gallons per batch.

(1) Metal waste in cascade 241-U-101-102-103 slurrying for TBP feed.

(2) By transferring metal waste from 241-TX-106 to 241-TX-114 an apparent volume loss of 7,000 gallons occurred. This can be accounted for by the increase of density resulting from cooling liquid in the 106-TX tank prior to pumping to the 114-TX tank.

[redacted]

HW-[illegible]-X 4-52

[redacted]

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[redacted]

[redacted]

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[redacted]

WASTE STORAGE STATUS

as of 9/30/52

URANIUM CONTENT
METAL WASTE

FARM	Tons			
	In Storage Begs Mos.	Received	* To TBP	In Storage End Mos.
EAST AREA				
B	383			383
C	837			837
BX	758			758
BY	1057.76			1057.76
TOTAL	3035.76			3035.76
WEST AREA				
T	374			374
U	770			770
TX	1376.71	4.92		1381.63
TY				
TOTAL	2520.71	4.92		2525.63(1)

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying.

REMARKS: (1) 405 tons of Uranium in cascade 241-U-101-102-103 now slurrying for feed to TBP Plant not included in this total.

[redacted]

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[redacted] RPP-13300, Rev. 0

[redacted]

[redacted]

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WASTE STORAGE STATUS

as of 9/30/52

FIRST CYCLE WASTE AND COATING WASTE
T AND B PLANTS

AREA	Gallons x 10^6				*
	In Storage Beg. Mo.	1st Cycle Waste Rec'd.	Feed To Evaporator	In Storage End Mo.	Reserve Cap. In Batches
EAST AREA					
B **	751		-169	582	
Evaporator Feed Tank - 106 B	402		+ 46	448	29
C	427			727	
BX	3175			3175	
BY	2190	43	-414	1819	11
TOTAL	7245	43	-537	6751	40
WEST AREA					
T	1910			1910	
U	382			382	
TX **	917	22	3	936	747
Evaporator Feed Tank - 118 TX	90	(708)[1]	63	735	8
TY	-			-	
TOTAL	3299	730	66	3963	755

* Reserve Capacity at 2800 gallons per batch.
( ) Not included in totals. **Excludes evaporator feed tanks 106-B and 118-TX.

REMARKS: (1) Adjusted to include 712,000 gallons of bottoms supernate received from 116-TX bottoms tank to 118-TX, and loss of 4,000 gallon heel in 114-TX tank to metal waste storage.

[redacted]

[redacted]

H-2002.04-X 4-52 [redacted]

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[redacted]

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[redacted]

WASTE STORAGE STATUS

As of 9-30-52

SECOND CYCLE WASTES & SECTION 5 WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	110-111-112-B	89	414	3020**
WEST AREA	110-111-112-T	85	717	2352
TOTAL		174	1131	5372

REMARKS: 61,000 gallons to Sec. 5 - 200-E, and 68,000 to Sect. 5- 200 W, included in crib figures.

**Reserve calculations based on storage of combined 5-6 & 2nd cycle only at 275 gallons of sludge per run.

**Reserve calculations based on storage of combined 5-6, 2nd cycle, and 224 wastes at 350 gallons of sludge per run.

224 BUILDING WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	204-203-202-B	42	170	476
WEST AREA	204-201-[illegible] 110-111-112-T	Inactive cascade 60	187 Sludge of reserve	- shown with 2nd cycle.
TOTAL		102	357	476

REMARKS:

[redacted]

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[redacted]

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[redacted]

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WASTE STORAGE STATUS

As of 9-30-52

[redacted]

TBP WASTE

FARM	Gallons x 10³ In Storage Beg Mos	TBP Waste Received	In Storage End Mos	Reserve Capacity
EAST AREA				
B				
C				2,443
BX				
BY				414 (1)
TOTAL		None		2,857
WEST AREA				
T				1,263
U				216
TX	380		380	
TY				3,110
TOTAL	380	None	380 (4)	4,589

Supernate tanks, 109 BY and 115 TX not included in the above.

Gallons x 10³ of condensate to crib 840 (2) (3).

Ratio, * Feed to Waste

During Month ---

Cumulative to date ---

* Feed adjusted to metal waste equiva[redacted]

REMARKS: 103-C to pump overground to 109-C (1st cycle tank) instead of 109-BY during October to permit slurrying of 101-102-103-C cascade.

(1) Space released in 107-BY by first cycle evaporation.

(2) Includes 0.40 tons at decontaminated and depleted uranium.

(3) In addition to the amount cribbed, 336,000 gallons containing 2.97 tons of decontaminated and depleted uranium were ditched.

(4) 371,000 gallons of this was [redacted]

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[redacted] SECURITY INFORMATION

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[redacted]

WASTE STORAGE STATUS

[redacted] As of 9-30-52

[redacted]

WASTE EVAPORATOR

FARM	Gallons x 10^3			
	Feed	Bottoms	Condensate To Cribs	Reserve Bottoms Space
EAST AREA				
B	123	162	375	554
C				
BX				
BY	414			
TOTAL	537	162	375	554 (1)
WEST AREA				
T				
U				
TW	66	30	36	720
TX				
TOTAL	66	30	36	720 (2)

REMARKS: (1) Bottoms reserve has increased due to pumping 105-B and part of 104-B to evaporator feed tank. (2) Temporary increase due to contents of 116 TX bottoms tank being pumped to 116 TX feed TX feed tank for re-evaporation.

REDOX WASTE

FARM	Gallons x 10^3			** Reserve Capacity In Batches
	In Storage Beg. Mo.	Waste Received	In Storage End Mo.	
S Farm	2,038	391	2,429	2,413 (1)
SU Farm				
TOTAL	2,038	391	2,429	2,413

Gallons x 10^3 of condensate to crib 342

* Will be considered as Redox reserve capacity when empty.

** Reserve Capacity at [redacted] gallons per U-3 equivalent [redacted]

REMARKS: (1) Additional Redox reserve space is now available in tanks 241-U-110-111-112 [redacted] and 241-TY-101-[redacted] 000 and 1,505,000 gals. respectively.
(2) Based on average p[redacted]

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[redacted]

STATUS OF WASTE FARMS

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Cap. Gallons x 10^3	Reserve Cap. In Batches	Remarks
B Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	529			
104	1C	530	410	120	EB	Partially pumped to 106-B. Not down to sludge.
105	EB	530	172	356		Completed pumping - 9/11/52.
106	1C	530	445	62	29	Evap. Feed Tank.
107	EB	530	461	69	EB	Active bottoms tk.-East Area evap.
108	EB	530	530			
109	EB	530	516	7	EB	
110	2C	530	530			Active cascade-B plant. 2nd cycle &
111	2C	530	530			Section 5.
112	2C	542	542			Tank 112-B. Cascades to crib.
201	224	54.5	54.5			Active cascade - 224 B.
202	224	54.5	54.5			
203	224	54.5	54.5			
204	224	54.5	54.5			
C Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			Supernate to pump to 109-C.
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	1C	530	399	131	TBP	
108	1C	530	34	496	TBP	
109	1C	530	10	515	TBP	To receive TBP supernate from 103-C.
110	1C	530	231	299	TBP	
111	1C	530	36	494	TBP	
112	1C	530	17	508	TBP	
201	MW	54.5	54.5			
202	MW	54.5	54.5			
203	MW	54.5	54.5			
204	MW	54.5	54.5			

MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

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[redacted]

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STATUS OF WASTE FARMS

[redacted]

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
BX Farm						
101	MW	530	530			
102	MW	530	467	63	23	
103	MW	530	530			
104	MW	530	530			
105	MW	530	530			
106	MW	530	530			
107	1C	530	530			
108	1C	530	530			
109	1C	530	530			
110	1C	530	530			
111	1C	530	525			
112	1C	530	530			
BY Farm						
101	MW	758	758			
102	MW	758	758			
103	MW	758	664	83	31	
104	MW	758	758			
105	MW	758	491	267	99	
106	MW	758	---	747	277	
107	1C	758	344	414	TBP	Partially pumped 9-25 to 9-28.
108	1C	758	753			
109	TBP	758	---	758		TBP supernate tank-200 East Area.
110	1C	758	722	31	11	Active-1st cycle tank-221-B.
111	MW	758	758			
112	MW	758	294	453	168	Active - MW tank - 221-B.
T Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1C	530	530			Contents of cascade will be aged 1 year - 3/1/53, after which evaporation may be started.
105	1C	530	530			
106	1C	530	528			
107	1C	530	245	285	TBP	
108	1C	530	73	457	TBP	
109	1C	530	4	515	TBP	

* MW = Metal Waste [redacted] Bridge Waste
1C = First Cycle Waste [redacted]
2C - Second Cycle Waste [redacted]

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STATUS OF WASTE FARMS

[redacted]

	* Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
T Farm						
110	224 & 2C	530	530			Active cascade - T plant - 2nd cycle, 224 and Sect. 5 waste. 112-T cascades to crib.
111	224 & 2C	530	530			
112	224 & 2C	569	569			
201	224	54.5	54.5			
202	224	54.5	54.5			
203	224	54.5	54.5			
204	224	54.5	54.5			
U Farm						
101	MW	530	530			Cascade now slurrying for feed to TBP Plant.
102	MW	530	530			
103	MW	530	519			
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	MW	530	530			
108	MW	530	530			
109	MW	530	519			
110	1C	530	336	194	71 **	Cascade being held as Redox waste reserve.
111	1C	530	14	516	187	
112	1C	530	32	495	181	
201	TBP	54.5	---	52.5	TBP	
202	TBP	54.5	---	54.5	TBP	
203	TBP	54.5	---	54.5	TBP	
204	TBP	54.5	---	54.5	TBP	
TX Farm						
101	MW	758	758			
102	MW	758	758	8		
103	MW	758	758			
104	MW	758	750			
105	MW	758	758			
106	MW	758	95	663	246	Pumped to 114 TX on 9-6-52 over-ground.
107	MW	758	758			
108	MW	758	718	29	11	Active tank - 221-T - metal waste.
109	1C	758	758	---	---	Active cascade - 221-T - first cycle.
110	1C	758	178	580	207	
111	1C	758	---	758	271	
112	1C	758	---	753	269	

* MW - Metal Waste [redacted] 224 - 224 Bldg. Waste
* 1C - First Cycle Wa[redacted]P - TBP Waste
2C - Second Cycle [redacted]S - Evaporator Bottoms
R - Redox Waste [redacted]

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[redacted]

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STATUS OF WASTE FARMS

[redacted]

	* Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
TX Farm (cont'd)						
113	EB	758	750	8	---	
114	MW	758	666	81	30	Received from 106-TX, 9/6/52.
115	TBP	758	758	---	---	TBP supernate tank-200West Area
116	EB	758	46	712		Pumped to 118 TX for starting re-evaporation.
117	EB	758	756	---	---	
118	1C	758	735	23	6	Evaporator feed tank.
TY Farm						
101	R	758		758	276**	
102	R	758		747	272	
103	TBP	758		758	276	
104	TBP	758		747	272	
105	TBP	758		758	276	
106	TBP	758		747	272	
S Farm						
101	R	758		758	276	
102	R	758		758	276	
103	R	758		747	272	
104	R	758		758	276	
105	R	758		758	276	
106	R	758		747	272	
107	R	758	458	300	109	Active tank - Redox wastes.
108	R	758	---	758	276	
109	R	758	---	747	272	
110	R	758	774	---	---	
111	R	758	755	---	---	
112	R	758	442	305	111	

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

** - Reserve figures for storage in tank farm 241-S and tanks 241-U-110-112; 241-TY-101-102. Based on average plant performance of 2,750 gallons per batch.

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[redacted]

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[redacted]

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No. 1 of 5 Copies, Series A

WASTE STATUS SUMMARY Separations Section

COPY 1 OF 1, SERIES A

Period: OCTOBER, NOVEMBER AND DECEMBER, 1952

CLASSIFICATION CANCELLED OR CHANGED TO Cancelled
BY AUTHORITY OF
BY AS Barker DATE 5-10-92
2-10-92
2/10/92

A.C. Morgenthaler
Planning & Scheduling Group
Waste Control
Manufacturing Department

" This Document Classified by:
V.R. Chapman "

[redacted]

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[redacted]

HW-27340

[redacted]

WASTE STATUS SUMMARY

Month of October 1952

	B Plant	T Plant
Runs of Metal Waste to waste farm during the month	Discard. flushes	21
Gals. increase in Metal Waste volume	2,000	58,905
Gals./Run average Metal Waste volume	- (1)	2,805
Reserve Gals. available for Metal Waste on 11-1-52	1,555,000 (2)	703,000
Runs of First Cycle Waste sent to farm during the month	2 MU	21
Gals. increase in First Cycle Waste volume	9,000	55,000
Gals./Run average First Cycle Waste volume	- (1)	2,619
Reserve Gals. available for First Cycle Waste on 11-1-52	324,000 (2)	2,075,000

Remarks: (1) Since B-Plant batches have been of abnormal sizes, no averages have been calculated. (2) In November B-3, 2nd cycle, 1st cycle, and stack drainage will be [illegible] after passing through 110-111-112 B cascade. Metal waste flushes will be [illegible] after passing through [illegible] tank cascade. Because of these changes, B-Plant [illegible] reserves first cycle and metal waste reserves. (3) Underground line con[illegible] (the [illegible] Plant [illegible] metal waste cascade) was plugged at month [illegible] has resulted in an unusually high liquid level in the 105-TX tank. Metal [illegible] shown above are based on the assumption that none of that material has seen leak to the ground.

	S Plant
[illegible] with [illegible] equivalent	121.6
Gallons increase in fission product waste storage	323,000
Tons of Uranium, (as charged), processed, to contribute to make-up of waste	73.61
Gallons/Ladle equivalent to B-3 MS	2,652
Gallons per ton of Uranium processed (1)	4,382
Reserve Gallons available for Redox waste on 10-31-52 (2)	2,319,000

Remarks: (1) This appears [illegible] increase per ton over September. This was [illegible] waste volume resulting from equipment changes in the third [illegible] The incremental effect of these changes is 1.7%. (2) These [illegible] in tank farm [illegible].

[redacted]

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[redacted]

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(3)

WASTE STORAGE STATUS

As of 10-31-52

METAL WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.	Metal Waste Received	In Storage End Mo.	Reserve Capacity In Batches
EAST AREA				
B	1.579		1.579	
C	3.374		3.374 (1)	
EX	3.117		3.117	23
EY	4.381	57 (2)	4.538	553
TOTAL	12.553	57	12.608	576
WEST AREA				
T	1.579		1.579	
U	4.737		4.737 (1)	
TX	6.018	69	6.022	265
TY	---		---	---
TOTAL	12.335	69	12.338	265

NOTE: Reserve capacity at 2.700 Gallons per batch.

(1) Cascaded 101-U and 101-T slurrying for TBP feed.

(2) Includes 1.57 gallons from [illegible] and 55.000 gallons from TBP-Plant.

[redacted]

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[redacted]

(1)

WASTE STORAGE STATUS

As of 10-31-52

URANIUM CONTENT
METAL WASTE

FARM	TONS OF DEPLETED URANIUM			
	In Storage Beg. Mo.	Received	* To TBP	In Storage End Mo.
EAST AREA				
B	383			383
C	837	1.32 (1)	392 (4)	446.32
EX	758			758
HY	1,057.75	0.61 (2)		1,058.37
TOTALS	3,035.75	1.93		2,645.69
WEST AREA				
T	374			374
U	770	0.45 (3)		770.45
TX	1,381.63	13.62		1,395.25
TY				
TOTAL	2,525.63	14.07		2,539.70 (5)

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying.

REMARKS: (1) Uranium in recovered nitric acid sent to U-Farm in September and October.

(2) [illegible] gallons from TBP [illegible] to HY.

(3) [illegible] in recovered nitric acid sent to U-Farm in September and October.

(4) [illegible] tons of uranium [illegible] transferred to TBP account.

(5) [illegible] tons of uranium [illegible] not included in this total.

[redacted]

[redacted]

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[redacted] HW-27845

(5)

WASTE STORAGE STATUS

As of 10-31-52

FIRST CYCLE WASTE AND COATING WASTES

T AND B PLANTS

	Gallons x 10^3				
	In Storage Beg. No.	1st Cycle Waste Recld	Feed To Evaporator	In Storage End No.	Reserve Capa In Batches
EAST AREA					
B	582			582	
[illegible] Tank - 106 B	[illegible]		[illegible]	247	101
C	727			727	
D	3,175			3,175	
E	1,839	10		1,829	8
TOTAL	6,751	10	[illegible]	6,560	109
WEST AREA					
T	1,910			1,910	
U	382			382	
TX	[illegible]	[illegible]		991	727
[illegible] Tank - 110 TX	[illegible]		[illegible]	218	24
TY	---				
TOTAL	3,963	[illegible]	[illegible]	4,001	741

Reserve Capacity at 2,000 gallons per batch

( ) Not included in totals.

[redacted]

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[redacted]

(6)

WASTE STORAGE STATUS

As of 10-31-52

SECOND CYCLE WASTES

	Cascade In Use	Gallons x 10^3 Cribbed	Gallons x 10^3 Sludge	Estimated Reserve Capacity In Batches
EAST AREA	110-111-112-B	82	414	3,020 **
WEST AREA	110-111-112-T	162	725	2,344 ***
TOTAL		244	1,139	5,364

REMARKS: 54,000 gallons from Section 5, 221-B and 114,000 gallons from Section 5, 221-T included in cribbed figures.

** Reserve calculations based on storage of combined 5-6 and second cycle only at 275 gallons of sludge per run.

*** Reserve calculations based on storage of combined 5-6, second cycle and 224-T wastes at 350 gallons of sludge per run.

224 BUILDING WASTES

	Cascade In Use	Gallons x 10^3 Cribbed	Gallons x 10^3 Sludge	Estimated Reserve Capacity In Batches
EAST AREA	201-202-202-B	49	170	476
WEST AREA	201-202-[illegible] 110-111,112-T	Inactive Cascade 98	107 Included with 2nd cycle figures	---
TOTAL		147	157	476

REMARKS:

[redacted]

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[redacted]

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[redacted]

WASTE STORAGE STATUS

As of 10-31-52

TBP WASTE

FROM	Gallons x 10^3 In Storage Beg. Mo.	TBP Waste Received	In Storage End Mo.	Reserve Capacity
EAST AREA				
B				
C				2,443
BX				
BY		(55) (1)		414
TOTAL				2,857
WEST AREA				
T				1,263
U				216
TX	380		380	
TY				3,110
TOTAL	380		380	4,589

Supernate tanks, 109 BY and 115 TX not included in the above.

Gallons x 10^3 of condensate to crib 854 (2) (3)

Ratio: * Feed to Waste

During Month ---

Cumulative to date ---

* Feed adjusted to metal waste equivalent

REMARKS: (1) Stored in unprocessed metal waste tanks 111-112 BY; this material will be re-worked. Shown as metal waste figures; includes 0.[illegible] tons of depleted uranium.

(2) Includes amount cribbed to 216-W and 316-W crib - contained 0.84 tons of depleted uranium.

(3) In addition to this figure, 405,000 gallons of solution containing 2.40 tons of depleted uranium were ditched. [redacted]

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[redacted]

As of 10-31-52

WASTE EVAPORATOR

Area	Gallons x 10^3			
	Feed	Bottoms	Condensate To Cribs	Recover Bottoms Space
EAST AREA				
B	201	64	137	490
C				
BX				
BY				
TOTAL	201	64	137	490
WEST AREA				
T				
U				
TX	17	46 (1)	-29 (1)	674
TY				
TOTAL	17	46	-29	674

REMARKS: (1) Bottoms figures exceeded feed because of evaporator flushes; hence recovered space or condensate is negative.

REDOX WASTE

Area	Gallons x 10^3			** Reserve Capacity In Batches
	In Storage Beg. Mo.	Waste Received	In Storage End Mo.	
S Farm	2,429	323	2,752	2,300
*U Farm				
TOTAL	2,429	323	2,752	

Gallons x 10^3 of condensate to crib 300 e

e Will be considered as Redox reserve capacity when empty

** Reserve Capacity at 2,750 gallons per 6-3 equivalent batch

REMARKS: A total of 2,713,000 gallons of storage space immediately available 241-TX and 241-U[illegible]

[redacted]

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[redacted]

STATUS OF WASTE TANKS

	Type of Waste*	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Cap. Gallons x 10^3	Reserve Cap. In Batches	Remarks
B Farm						
101	[illegible]	530	530			
102	[illegible]	530	[illegible]			
103	[illegible]	530	[illegible]			
104	[illegible]	530	410	120	[illegible]	
105	[illegible]	530	172	355	[illegible]	
106	[illegible]	530	[illegible]	20[illegible]	[illegible]	Evaporator feed tank
107	[illegible]	530	[illegible]	[illegible]	[illegible]	[illegible] bottoms tank-East Area Evap.
108	[illegible]	530	[illegible]	---	---	
109	[illegible]	530	[illegible]	---	---	
110	[illegible]	530	[illegible]			[illegible] waste, B Plant
111	[illegible]	530	[illegible]			
112	[illegible]	542	[illegible]			[illegible] to crib
201	[illegible]	54.5	[illegible]			[illegible], 224-B
202	[illegible]	54.5	[illegible]			
203	[illegible]	54.5	[illegible]			
204	[illegible]	54.5	[illegible]			
C Farm						
101		530	[illegible]			[illegible] for TBP feed
102		530				
103		530				
104		530	[illegible]			
105		530	[illegible]			
106		530	[illegible]			
107		530				
108		530				
109		530				[illegible]
110		530				[illegible]
111		530				
112		530				
201		54.5	[illegible]			
202		54.5	[illegible]			
203		54.5	[illegible]			
204		54.5	[illegible]			

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
224 - 224 Plant Waste
TBP - TBP Waste
ER - Evaporator Bottoms

[redacted]

[redacted]

[redacted]

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[redacted] STATUS OF WASTE FARMS [redacted]

(10)

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
BX Farm						
101	[illegible]	530	[illegible]			
102	[illegible]	530	[illegible]			
103	[illegible]	530	[illegible]			
104	[illegible]	530	[illegible]			
105	[illegible]	530	[illegible]			
106	[illegible]	530	[illegible]			
107	[illegible]	530	[illegible]			
108	[illegible]	530	[illegible]			
109	[illegible]	530	[illegible]			
110	[illegible]	530	[illegible]			
111	[illegible]	530	[illegible]			
112	[illegible]	530	[illegible]			
BY Farm						
101	[illegible]	758	[illegible]			
102	[illegible]	758	[illegible]			
103	[illegible]	758	[illegible]			
104	[illegible]	758	[illegible]			
105	[illegible]	758	[illegible]			
106	[illegible]	758	[illegible]			
107	[illegible]	758	[illegible]			[illegible] not complete
108	[illegible]	758	[illegible]			
109	[illegible]	758	[illegible]			[illegible] - [illegible] Area
110	[illegible]	758	[illegible]			[illegible] as [illegible] cycle waste
111	[illegible]	758	[illegible]			
112	[illegible]	758	[illegible]			[illegible] waste [illegible]
T Farm						
101	[illegible]	[illegible]	[illegible]			
102	[illegible]	[illegible]	[illegible]			
103	[illegible]	[illegible]	[illegible]			
104	[illegible]	[illegible]	[illegible]			[illegible] complete 3/31/53
105	[illegible]	[illegible]	[illegible]			[illegible]
106	[illegible]	[illegible]	[illegible]			
107	[illegible]	[illegible]	[illegible]			
108	[illegible]	530	[illegible]			
109	[illegible]	530	[illegible]			

MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
22W - 22W Hydr. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

[redacted]

H-2002.03-X H-52 [redacted]

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HW-27940

[redacted]

(11)

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
T Farm						
110	[illegible]	530	[illegible]			Active cascade-T Plant; 2nd
111	[illegible]	530	[illegible]			cycle. 224 & Sect. 5 wastes
112	[illegible]	569	[illegible]			Tank 112-T cascades to crib
201	[illegible]	54.5	[illegible]			
202	[illegible]	54.5	[illegible]			
203	[illegible]	54.5	[illegible]			
204	[illegible]	54.5	[illegible]			
U Farm						
101	[illegible]	530	530			Cascade now slurrying for feed
102	[illegible]	530	530			to TBP
103	[illegible]	530	519			
104	[illegible]	530	530			
105	[illegible]	530	530			
106	[illegible]	530	519			
107	[illegible]	530	530			
108	[illegible]	530	530			
109	[illegible]	530	519			
110	[illegible]	530	[illegible]	[illegible]	[illegible]	Cascade being held as Redox
111	[illegible]	530	[illegible]	[illegible]	[illegible]	waste reserve
112	[illegible]	530	[illegible]	[illegible]	[illegible]	
201	[illegible]	54.5		[illegible]	[illegible]	
202	[illegible]	54.5		[illegible]	[illegible]	
203	[illegible]	54.5		[illegible]	[illegible]	
204	[illegible]	54.5		[illegible]	[illegible]	
TX Farm						
101	[illegible]	758	[illegible]			
102	[illegible]	758	[illegible]			
103	[illegible]	758				
104	[illegible]	758	[illegible]			
105	[illegible]	758	[illegible]			Overflow to 106-TX plugged at
106	[illegible]	758	[illegible]			main end
107	[illegible]	758	[illegible]			Supernate temp. ~ 215° F.
108	[illegible]	758	[illegible]			[illegible] 31-32
109	[illegible]	758	758	---	---	Active cascade, 221-T, 1st cycle
110	[illegible]	758	233	[illegible]	[illegible]	
111	[illegible]	758	---	[illegible]	[illegible]	
112	[illegible]	758	---	[illegible]	[illegible]	

* MW - Metal Waste
* 1C - First Cycle Waste
2C - Second Cycle [redacted]
R - Redox Waste [redacted]
224 - 224 Bldg. Waste
TBP - TBP Waste

[redacted]

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[redacted]

STATUS OF WASTE FARMS

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	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
TI Farm (cont'd)						
113	[illegible]	758	[illegible]	[illegible]	[illegible]	
114	[illegible]	758	[illegible]	[illegible]	[illegible]	
115	[illegible]	[illegible]	[illegible]			TBP supernate tank. 2-West Area
116	[illegible]	758	92	[illegible]	EB	Active bottoms tank. 2-West Evap.
117	[illegible]	758	[illegible]			
118	[illegible]	758	[illegible]	[illegible]	[illegible]	Evap. feed tank. 2-West Area
TY Farm						
101	[illegible]	758	---	[illegible]	[illegible]	
102	[illegible]	758	---	[illegible]	[illegible]	
103	[illegible]	758	---	[illegible]	---	
104	[illegible]	758	---	[illegible]	---	
105	[illegible]	758	---	[illegible]	---	
106	[illegible]	758	---	[illegible]	---	
S Farm						
101	[illegible]	758	---	[illegible]	[illegible]	
102	[illegible]	758	---	[illegible]	[illegible]	
103	[illegible]	758	---	[illegible]	[illegible]	
104	[illegible]	758	---	[illegible]	[illegible]	
105	[illegible]	758	---	[illegible]	[illegible]	
106	[illegible]	758	---	[illegible]	[illegible]	
107	[illegible]	758	[illegible]	---	---	[illegible] 10-10-52
108	[illegible]	758	[illegible]	[illegible]	[illegible]	[illegible] tank. Temporarily
109	[illegible]	758	---	[illegible]	[illegible]	
110	[illegible]	758	[illegible]			
111	[illegible]	758	[illegible]			
112	[illegible]	758	[illegible]	[illegible]	[illegible]	

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

224 - 224 Bldg. Waste
TBL - TBP Waste
EB - Evaporator Bottoms

** - Reserve figures for storage in tank farm 241-S and tanks 241-T-110-112; 241-TY-101-102. Based on average plant performance of 2,750 gallons per batch.

[redacted]

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[redacted]

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[redacted]

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(13)

WASTE STATUS SUMMARY

~~RESTRICTED~~

Month of November 1952

	B Plant	T Plant
Runs of Metal Waste to waste farm during the month	---	23
Gals. increase in Metal Waste volume	---	82,250
Gals./Run average Metal Waste volume	---	3,578
Reserve Gals. available for Metal Waste on 11-30-52	1,556,000 (1)	652,000
Runs of First Cycle Waste sent to farm during the month	---	25
Gals. increase in First Cycle Waste volume	---	63,250
Gals./Run average First Cycle Waste volume		2,530
Reserve Gals. available for First Cycle Waste on 11-30-52	386,000 (1)	2,013,000

Remarks: (1) Reserve space no longer required for B-Plant since all wastes from buildings are being cribbed.

TRICED SECURITY INFORMATION

	S Plant
Bismuth Phosphate Batch Equivalent	182.73
Gallons increase in fission product waste storage	473,000
Tons of Uranium, (as charged), processed, to contribute to make-up of waste	114.10
Gallons/batch equivalent to 6-3 TS	2,589
Gallons per ton of Uranium processed	4,145
Reserve Gallons available for Redox waste on 11-30-52	(1) 5,846,000

Remarks: (1) These reserves are those in tank farm 241-S only.

[redacted]

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~~RESTRICTED~~

[redacted]

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[redacted]

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WASTE STORAGE STATUS

[redacted] As of 11-30-52

METAL WASTE

SECURITY INFORMATION

FARM	Gallons x 10^3 In Storage Beg. Mo.	Metal Waste Received	In Storage End Mo.	Reserve Capacity In Batches
EAST AREA				
B	1,579		1,579	
C	3,374		3,374 (1)	
D	3,117		3,117	23
E	4,538	---	4,538	553
TOTAL	12,608	---	12,608	576
WEST AREA				
T	1,579		1,579	
U	4,737		4,737 (1)	
TX	6,078	82	6,160	241
TY	---		---	
TOTAL	12,394	82	12,476	241

REMARKS: *Reserve capacity at 2,700 Gallons per batch.

(1) Cascades 101-103 C and 101-103 U are now serving as feed tanks to TBP Plant. These cascades will be indicated as full until the entire cascade has been released.

[redacted]

[redacted]

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[redacted]

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[redacted]

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WASTE STORAGE STATUS

[redacted]

As of 11-30-52

URANIUM CONTENT
METAL WASTE

SECURITY INFORMATION

Plant	In Storage Beg. Mo.	Received	* To TBP	In Storage End Mo.
	TONS OF DEPLETED URANIUM			
EAST AREA				
B	383			383
C	[illegible].32 (2)	3.40 (1)		229.72
W	755			750
BY	1,058.37			1,058.37
TOTAL	2,645.09	3.40		2649.09
WEST AREA				
T	374			374
U	770.35 (2)	2.90 (1)		773.35
TX	1,395.25	16.27		1,411.52
TY	---			---
TOTAL	2,539.70	19.17		2558.87

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying.

REMARKS: (1) [illegible] tons [illegible] addition to farm at blend tanks in form of recovered nitric acid. This uranium will be fed back through the TBP Plant.

(2) [illegible] tons in cascade 101-103 C and [illegible] tons in cascade 101-103 U are now being fed to TBP Plant. These quantities are not included in the above figures.

[redacted]

[redacted]

[redacted]

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[redacted]

T6

WASTE STORAGE STATUS

[redacted]

As of 11-30-[illegible]

FIRST CYCLE WASTE AND COATING WASTES
T AND B PLANTS

FARM	Gallons x 10³ (Thousands)				
	In Storage Beg. Mo.	1st Cycle Waste Prod'd	Feed To Evaporator	In Storage End Mo.	Reserve Cap. in Batches*
EAST AREA					
B	582			582	
Evaporator Feed Tank - 106 B	247		82	165	130
C	727			727	
BX	3,175			3,175	
BY	1,829	---		1,829	8
TOTAL	[illegible]	---	82	[illegible]	138
WEST AREA					
T	1,910			1,910	
U	382			382	
TX	[illegible]	63		[illegible]	[illegible]
Evaporator Feed Tank - 118 TX	715		---	715	14
TY	---			---	
TOTAL	[illegible]	63	---	[illegible]	719

* Reserve Capacity at [illegible] gallons per batch

( ) Not included in [illegible]

Remarks

[redacted]

[redacted]

[redacted]

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(17)

[redacted]

WASTE STORAGE STATUS

As of 11-30-52

[redacted]

SECOND CYCLE WASTES

	Cascade In Use	Gallons x 10³		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	110-111-112 B	131 (1)	414	3,020 **
WEST AREA	110-111-112 T	178	733	2,321 ***
TOTAL		309	1,147	5,341

REMARKS: (1) Includes metal waste, first cycle, section five, and second cycle wastes resulting from cleanouts.

** Reserve calculations based on storage of combined 5-6 and second cycle only at 275 gallons of sludge per run.

*** Reserve calculations based on storage of combined 5-6, 2nd cycle and 224-T waste at 350 gallons of sludge per run.

224 BUILDING WASTES

	Cascade In Use	Gallons x 10³		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	204-203-202 B	24	270	476
WEST AREA	204-201-T 110-111-112 T	79 Inactive cascade	187 Incl. with 2nd cycle figures	---
TOTAL		103	457	476

REMARKS:

[redacted]

[redacted]

[redacted]

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[redacted]

WASTE STORAGE STATUS

As of 11-30-52

TBP WASTE

[redacted]

FAIM	Gallons x 10^3 In Storage Beg. Mo.	TBP WASTE Received [redacted]	In Storage End Mo. [redacted]	Reserve Capacity
EAST AREA				
I				
C		362	362	1,580 (3)
E				
B	55 (1)		55	414
TOTAL	55	362	417	1,974
WEST AREA				
T		426	426	831
U				
TD	380 (2)		380	
TD				3,010
TOTAL	380	426	806	3,841

Supernate tanks, 109 BY and 115 TX not included in the above.

Gallons x 10^3 of condensate to crib 2,055

Ratio: ~~Feed-to-Waste~~ WASTE TO FEED*

During Month 0.95

Cumulative to date 1.65 (4)

* Feed adjusted to metal waste equivalent.

REMARKS: (1) High waste in metal waste cascade 111-112 BY is reworkable.

(2) High waste [redacted] in 108 TX and 115 TX reworkable

(3) Tank 109 C not included as reserve space since this space is not immediately available.

(4) Includes high wastes [redacted]

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[redacted]

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[redacted]

WASTE STORAGE STATUS

[redacted]

As of 11-30-52

WASTE EVAPORATOR

FARM	Gallons x 10^3 Feed	Bottoms	Condensate To Cribs	Reserve Bottoms Space
EAST AREA		[redacted]		
B	62.5	20	62.5	469
C				
EX				
BY				
TOTAL	62.5	20	62.5	469
WEST AREA				
T				
U				
TX	0	0	0	670 (1)
TY				
TOTAL	0		0	670 (1)

REMARKS: (1) 2,000 gallon reserve increase in 113 TX because of volume contraction of liquid following cooling below boiling point toward atmospheric temperature.

REDOX WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.	Waste Received	In Storage End Mo.	** Reserve Capacity In Batches
S Farm	2,751	473	3,224	2,247
SU Farm				
TOTAL	2,751	[redacted]	3,224	2,247

Gallons x 10^3 of condensate to crib 469

** Will be considered as Redox reserve capacity when empty.

[redacted]

Reserve Capacity of 2,500 gallons per [redacted] batch

REMARKS: A total of 2,713,000 gallons of storage space is available in 241-S and 241-U tank farms.

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STATUS OF WASTE FARMS

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(20)

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 St[redacted]	Reserve Cap. Gallons	Reserve Cap. In[redacted]	Remarks
B Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1C	530	410	120	EB	
105	EB	530	172	358	EB	
106	1C	530	165	365	130	Evaporator feed tank
107	EB	530	531	---		Cascaded to 108-B. 11-25-52
108	EB	530	526	---		Cascaded to 109-B. 11-30-52 *
109	EB	530	514	11	EB	
110	1C - 2C-S-S	530	530			Active cascade, B Plant receives
111	1C - 2C-S-S	530	530			flushes of Sec. 5. 1st cycle &
112	1C - 2C-S-S	542	542			2nd cycle lines
201	MW	224	54.5	54.5		Active cascade, B Plant, receives
202	MW	224	54.5	54.5		flushes of 224-B Bldg. & MW lines
203	MW	224	54.5	54.5		
204	MW	224	54.5	54.5		
C Farm						
101	MW	530				Cascade now serving as feed to
102	MW	530	779			TBP Plant
103	MW	530				
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	1C	530	399-0	131	TBP	
108	1C	530	34-0	496	TBP	
109	1C-TBP	530	10-466	23	TBP	Temporary supernate tank for C-Farm MW removal operations
110	1C-TBP	530	231-259	40	TBP	200-S active receiver of TBP
111	1C-TBP	530	3-103	391	TBP	wastes. Overflow 110-C to 111-C
112	1C-TBP	530	17-0	502	TBP	plugged on 11-15-52
201	MW	54.5	54.5			
202	MW	54.5	54.5			
203	MW	54.5	54.5			
204	MW	54.5	54.5			

[redacted]

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

[redacted] 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

[redacted]

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* Tanks 108 and 109-B were previously in service for storage of evap[redacted] bottoms in May and August respectively. Since th[redacted] bottoms solutions have cooled, causing a density [redacted]ase. This has resulted in 19,000 gallons of additional storage space, which was utilized by cascading wastes from 107-B to 108-B to 109-B in November.

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STATUS OF WASTE FARM

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity x 10^3	Reserve Capacity in Batches	Remarks
BX Farm						
101	MW	530	530 [redacted]			
102	MW	530	467 [redacted]	53	23	
103	MW	530	530			
104	MW	530	530			
105	MW	530	530			
106	MW	530	530			
107	1C	530	530			
108	1C	530	530			
109	1C	530	530			
110	1C	530	530			
111	1C	530	525			
112	1C	530	530			
BY Farm						
101	MW	758	758			
102	MW	758	758			
103	MW	758	604	83	31	
104	MW	758	758			
105	MW	758	491	267	99	
106	MW	758	---	747	277	
107	1C	758	344	414	TBP	No supernate pumped to 106-B in
108	1C	758	753			November
109	TBP	758	---	758		TBP supernate tank, 200 B Area
110	1C	758	732	21	8	
111	MW	758	758	---		
112	MW	758	351	355	147	
T Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1C	530	530			1 year decay complete 3/31/53
105	1C	530	[redacted]			Evaporation scheduled to start
106	1C	530	[redacted]			4-1-53
107	1C-TBP	530	245-285	---	TBP	Full 11-20-52. Started filling with TBP, 11-17-52, because of
108	1C-TBP	530	73-141	316	TBP	plug in 110-111-112 C cascade
109	1C-TBP	530	[redacted]		TBP	

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

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[redacted]

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STATUS OF WASTE FARMS

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
T Farm						
110	224&2C	530	530	[redacted]		2nd cycle, Sec. 5, and 224 Bldg.
111	224&2C	530	530			active cascade, T Plant
112	224&2C	569	569			Tank 112, T cascades to crib
201	224	54.5	54.5			
202	224	54.5	54.5			
203	224	54.5	54.5			
204	224	54.5	54.5	[redacted]		
U Farm						
101	MW	530	585			Cascade now serving as feed to TBP Plant
102	MW	530				
103	MW	530				
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
[illegible]	MW	530	530			
108	MW	530	530			
109	MW	530	530			
110	1C	530	336	194	75 **	Cascade being held as Redox waste reserve
111	1C	530	14	516	190	
112	1C	530	32	498	192	
201	TBP	54.5		52.5	TBP	
202	TBP	54.5		54.5	TBP	
203	TBP	54.5		54.5	TBP	
204	TBP	54.5		54.5	TBP	
TX Farm						
101	MW	758	750			
102	MW	758	750			
103	MW	750	750			
104	MW	758	750			
105	MW	758	700	---	---	Plug removed 11-8-52
106	MW	758	187	571	211	
107	MW	758	700	---	---	
108	MW	758	751	---	---	
109	1C	758	758	---	---	Active cascade, 221-T, 1st cycle
[illegible]	1C	758	294	[redacted]		
111	1C	758	---	[illegible]	271	
112	1C	758	---	753	269	[redacted]

* MW - Metal Waste
* 1C - First Cycle Waste
2C - Second Cycle
R - Redox Waste

224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms
** See bottom of page H-2902.11-X

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[redacted]

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STATUS OF WASTE FARMS

	* Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Res[redacted] Gallons x 10^3	In Batches	Remarks
TX Farm (cont'd)						
113	EB	758	746	10	EB	
114	[illegible]	758	666	[illegible]	[illegible]	
115	TBP	758	75[illegible]	[illegible]	[illegible]	TBP supernate tank, 200-W Area
116	EB	758	92	666	EB	Active bottoms tank, 200-W Evap.
117	EB	758	756			
118	1C	758	716	40	1C	Evap. feed tank, 200-W Area
TY Farm						
101	R	758	---	758	291 **	
102	R	758	---	747	287	
103	TBP	758	---	758	TBP	
104	TBP	758	---	747	TBP	
105	TBP	758	---	758	TBP	
106	TBP	758	---	747	TBP	
Farm						
101	R	758	---	758	291 **	
102	R	758	---	758	291	
103	R	758	---	747	287	
104	R	758	---	758	291	
105	R	758	---	758	291	
106	R	758	---	747	287	
107	R	758	763		---	
108	R	758	490	268	105	Active tank, redox wastes
109	R	758	---	747	287	
110	R	758	274			
111	R	758	74[illegible]			
112	R	758	442	30[illegible]	287	

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

[redacted] performance of 2,000 gallons per batch (average of Oct.-Nov. 1952)

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[redacted]

[redacted]

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[redacted]

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WASTE STATUS SUMMARY

Month of December, 1952

	B Plant	T Plant
Runs of Metal Waste to waste farm during the month	—	41
Gals. increase in Metal Waste volume	(1)	104,500
Gals./Run average Metal Waste volume	—	2,549
Reserve Gals. available for Metal Waste on 12-31-52	1,545,000 (2)	547,000
Runs of First Cycle Waste sent to farm during the month	—	39
Gals. increase in First Cycle Waste volume	(1)	101,750
Gals./Run average First Cycle Waste volume	—	2,609
Reserve Gals. available for First Cycle Waste on 12-31-52	(3) 136,000	(3) 1,911,000

Remarks: (1) All wastes from B Plant are cribbed after passing through either the 200-B series tanks, or 110-112-B cascade. (See 2nd cycle and 224 wastes)
(2) Decreased 11,000 gallons below previous month figure, because of addition of temporary TBP waste to 111-112-BY tanks. (3) Includes empty space in first cycle evaporator feed tanks.

	S Plant
Bismuth Phosphate Batch Equivalent	140.69
Gallons increase in fission product waste storage	373,000
Tons of Uranium, (as charged), processed, to contribute to make-up of waste	91.00
Gallons/batch equivalent to 6-3 MS	2,650
Gallons per ton of Uranium processed	(1) 4,096
Reserve Gallons available for Redox waste on 12-31-52	(2) 5,475,000

Remarks: (1) Minor process changes were made which tend toward reducing waste volume per ton of uranium feed by a small percentage. (2) These reserves are those in tank farm 241-S only.

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[redacted]

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WASTE STORAGE STATUS

As of 12-31-52

METAL WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.	Metal Waste Received	In Storage End Mo.	Reserve Capacity In Batches
EAST AREA				
B	1,579		1,579	
C	3,374 (1)		3,374	
BX	3,117		3,117	23
BY	4,538	11 (2)	4,549	550
TOTAL	12,608	11	12,619	573
WEST AREA				
T	1,579		1,579	
U	4,737 (1)		4,737	
TX	6,160	105	6,265	203
TY				
TOTAL	12,476	105	12,581	203

REMARKS: *Reserve capacity at 2,700 Gallons per batch.

1) Cascades 101-103-C and 101-103-U are now serving as feed tanks to TBP Plant. These cascades will be indicated as full until the entire cascade has been released.

2) High waste from TBP Plant return to metal waste storage.

[redacted]

[redacted]

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[redacted]

[redacted]

WASTE STORAGE STATUS

As of —-31-52

URANIUM CONTENT
METAL WASTE

FARM	TONS OF DEPLETED URANIUM			
	In Storage Beg. Mos	Received	* To TBP	In Storage End Mo.
EAST AREA				
B	383			383
C	(2) 449.72	1.35 (3)		451.07
BX	758			758
BY	1,058.37	0.67 (1)		1,059.04
TOTAL	2,649.09	2.02		2,651.11
WEST AREA				
T	374			374
U	(2) 773.35	1.37 (3)		774.72
TX	1,411.52	24.58		1,436.10
TY				
TOTAL	2,558.87	25.95		2,584.82

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying.

REMARKS: (1) 0.67 tons of high TBP waste sent to cascade 111-112-BY

(2) 392 tons in cascade 101-103-C and 405 tons in cascade 101-103-U are now being fed to TBP Plant. These quantities are not included in the above total.

(3) 2.72 tons of uranium returned to tank farm blend tanks in form of recovered nitric acid.

[redacted]

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[redacted]

WASTE STORAGE STATUS

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As of 12-31-52

FIRST CYCLE WASTE AND COATING WASTE

T AND B PLANTS

FARM	Gallons x 10^3				* Reserve Cap. In Batches
	In Storage Beg. Mo.	1st Cycle Waste Rec'd	Feed To Evaporator	In Storage End Mo.	
EAST AREA					
B (1)	2,155	(197)		2,352	
Evaporator Feed Tank - 106 B	165		(250)	415	41
C (2)	727			727	
BX	3,175		(23) (3) 579	2,573	
BY	1,829		343	1,486	8
TOTAL	8,051	(197)	672(523)	7,553	49
WEST AREA					
T	1,910			1,910	
U (2)	382			382	
TX	3,316	102		3,418	669
Evaporator (1) Feed Tank - 118 TX	718			718	14
TY					
TOTAL	6,326	102		6,428	683

* Reserve Capacity at 2,800 gallons per batch

( ) Not included in totals.

REMARKS: All figures have been revised to include first cycle wastes in storage as evaporator bottoms. (1) Figures represent bottoms storage only. (2) First cycle waste as non-evaporable sludge only. (3) 23,000 gallons of first cycle waste lost to ground during pumping of 108 BX supernatant liquid to 106-B evaporator feed tank on 12-16-52.

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[redacted]

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[redacted]

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WASTE STORAGE STATUS

As of 12-31-52

SECOND CYCLE WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	110-111-112-B	97 (1)	414	3,020
WEST AREA	110-111-112-T	218	734	2,28[illegible]
TOTAL		315	1,148	5,302

REMARKS: (1) Includes metal waste, first cycle, section five, and second cycle wastes resulting from cleanouts. ** Reserve calculations based on storage of combined section five and second cycle wastes only at 275 gal. of sludge per run. ** Reserve calculations based on storage of combined section five, second cycle, and 224-T building waste at 350 gal. of sludge per run.

224 BUILDING WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	204-203-202-B	13 (2)	170	476
WEST AREA	204-201-T 110-111-112-T	Inactive Cascade 132	187 Included with 2nd cycle figures	
TOTAL		145	357	476

REMARKS: Flushes of B plant are cribbed as follows: (1) 2nd cycle, 1st cycle, stack drainage, and section 5 crib via 110-111-112-B tanks. (2) 224-B and Section 9 metal waste tanks crib via 200-B tanks.

[redacted]

[redacted]

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WASTE STORAGE STATUS

As of 12-31-52

TBP WASTE

PERMANENT AND TEMPORARY WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.		TBP Received		In Storage End Mo.		Reserve Capacity	
	Perm.	Temp.	Perm.	Temp.	Perm.	Temp.	Perm.	Temp.
EAST AREA								
B		(1)		(1)		(1)		(1)
C	362		198		560		1.362 (4)	
BX							602	
BY		55		11		66	757	
TOTAL	362	55	193		560	66	2.721	
WEST AREA								
T	426		774				57	
U							216	
TX		9 (1) 371 (2)				9 (1) 371 (2)		
TY							3	
TOTAL	426	380	774	0	1.200	380	3.293	

Supernate tanks, 209 BY and 115 TX not included in the above.

Gallons x 10^3 of condensate to crib 3.000 (3)

Volumetric Ratios:

	Waste to Feed (Permanent only)	(Combined Perm. and Temp.)
During Month	1.90	1.93
Cumulative to date	1.17	1.47

* Feed adjusted to metal waste equivalent

REMARKS: (1) Temporary wastes and reserve capacities are shown with metal waste inventories. (2) Temporary waste stored in 115 TX supernate tank. (3) Cribbed waste contained 1.62 tons of depleted and decontaminated uranium. (4) Tank 109-C is not included in reserve figure since this space is not immediately available.

[redacted]

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[redacted]

WASTE STORAGE STATUS

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As of 2-31-52

WASTE EVAPORATOR

FARM	Gallons x 10^3 Feed	Bottoms	Condensate To Cribs	Reserve Bottoms Space
EAST AREA				
B		197	475	303
C				
BX	329			
BY	343			
TOTAL	672	197	475	(1) 303
WEST AREA				
T				
U				
TX	------	------	------	676
TY				
TOTAL	------	------	------	676

On the basis of present bottoms reserves figures, it is estimated that a re-evaporation of evaporator bottoms tanks will be required near the middle of February, 1953 before further space recovery can be made.

REMARKS:

REDOX WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo.	Waste Received	In Storage End Mo.	** Reserve Capacit In Batches
S Farm	3,224	373	3,597	2,103
AU Farm				
TOTAL	3,224	373	3,597	2,103

Gallons x 10^3 of condensate to crib 372.

[redacted]

) * Will be considered as Redox reserve capacity when empty.

** Reserve Capacity at 2,600 gallons per 6-3 equivalent batch

REMARKS: A total of 2,713,000 gallons of storage space is available in 241-TY and 241-U tank farms.

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[redacted]

STATUS OF WASTE FARMS

	Type of Waste*	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Cap. Gallons x 10^3	Reserve Cap. In Batches	Remarks
B Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	EB	530	531			Started filling 12-4-52
105	EB	530	227	303	EB	
106	1C	530	415	115	41	Evaporator Feed Tank
107	EB	530	531			
108	EB	530	528			
109	EB	530	535			Completed filling 12-4-52
110 1C-2C	5-6	530	530			Active Cascade - B Plant
111 1C-2C	5-6	530	530			
112 1C-2C	5-6	542	542			
201 MW	224	54.5	54.5			Active Cascade - B Plant
202 MW	224	54.5	54.5			
203 MW	224	54.5	54.5			
204 MW	224	54.5	54.5			
C Farm						
101	MW	530				Cascade now processing for feed
102	MW	530	984	595		to TBP Plant
103	MW	530				
104	MW	530	530			
105	MW	530	530			
106	MW	530	519			
107	1C-TBP	530	399-148	(-16)		Overflow line to 108 C plugged
108	1C-TBP	530	34-51	445	TBP	/12-18-52
109	1C-TBP	530	10-486	23	Supernate	Temp. supernate tank for C-farm MW removal operations
110	1C-TBP	530	231-259	40	TBP	Overline still plugged 12-31-52
111	1C-TBP	530	36-103	391	TBP	
112	1C-TBP	530	17-0	502	TBP	
201	MW	54.5	52.5			
202	MW	54.5	54.5			
203	MW	54.5	54.5			
204	MW	54.5	54.5			

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

[redacted]

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[redacted]

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STATUS OF WASTE FARMS

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
BX Farm						
101	MW	530	530			
102	MW	530	467	63	23	
103	MW	530	530			
104	MW	530	530			
105	MW	530	530			
106	MW	530	530			
107	1C-TBP	530	437-0	93	TBP	Finished pumping 12-18-52; down to
108	1C-TBP	530	21-0	509	TBP	sludge. Finished pumping to 11.000
109	1C-TBP	530	530			heel. 1-1-52. 23.000 gallons of
110	1C	530	530			1st cycle supernate was lost to the open ground from 108 BX pumping
111	1C	530	525			operation on 12-16-52.
112	1C	530	530			
BY Farm						
101	MW	758	758			
102	MW	758	758			
103	MW	758	664	83	31	
104	MW	758	758			
105	MW	758	491	267	99	
106	MW	758		747	277	
107	1C-TBP	758	1	757	TBP	Pumped to liquid heel - 12-6-52
108	1C	758	753			
109	TBP	758		758	Supernate	TBP supernate tank - 200-E Area
110	1C	758	732	21	8	
111	MW	758	758			Receives high TBP wastes for temp-
112	MW	758	362	385	143	orary storage.
						(Received 11,000 gallons in Dec.)
T Farm						
101	MW	530	530			
102	MW	530	530			
103	MW	530	519			
104	1C	530	530			1 yr. decay complete 3-31-53
105	1C	530	530			Evaporation to start after 4-1-53
106	1C	530	529			
107	1C-TBP	530	245-285			
108	1C-TBP	530	73-457			Tank filled 12-11-52
109	1C-TBP	530	4-458	57	TBP	Tank now filling with TBP waste.

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
224 - 224 Bldg. Waste [redacted]
TBP - TBP Waste
EB - Evaporator Bottoms

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STATUS OF WASTE FARMS

	Type of Waste*	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
T Farm						
110 5-6	224&2C	530	530			Active cascade - T Pl[illegible]
111 5-6	224&2C	530	530			
112 5-6	224&2C	569	569			112-T Cascades to [illegible]
201	224	54.5	54.5			
202	224	54.5	54.5			
203	224	54.5	54.5			
204	224	54.5	54.5			
U Farm						
101	MW	530				Cascade now serving as feed to TBP
102	MW	530	797	782		Plant
103	MW	530				
104	MW	530	296	234		Supernate from 104-U pumped to
105	MW	530	530			Cascade 101-103U
106	MW	530	519			
107	MW	530	530			
108	MW	530	530			
109	MW	530	519			
110	1C	530	336	194	75**	Cascade being held as Redox waste
111	1C	530	14	516	195	reserve.
112	1C	530	32	498	192	
201	TBP	54.5		52.5	TBP	
202	TBP	54.5		54.5	TBP	
203	TBP	54.5		54.5	TBP	
204	TBP	54.5		54.5	TBP	
TX Farm						
101	MW	758	755			
102	MW	758	758			
103	MW	758	738			
104	MW	758	750			
105	MW	758	766			
106	MW	758	292	466	173	Active cascade 221-T Metal Waste
107	MW	758	766			
108	MW	758	751			
109	1C	758	755			Active cascade 221-T - 1st Cycle
110	1C	758	395	360	129	
111	1C	758		758	271	
112	1C	758		753	269	Tank to be held for Redox wastes.

* MW = Metal Waste
1C - First Cycle Waste
2C - Second Cycle
R - Redox Waste

224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms
* See bottom of page H-2902.11-X

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[redacted]

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[redacted]

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[redacted] -SECURITY INFORMATION

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STATUS OF WASTE FARMS

	Type of Waste	Gallons x 10^3 Capacity	Gallons x 10^3 Stored	Reserve Capacity Gallons x 10^3	Reserve Capacity In Batches	Remarks
TI Farm (cont'd)						
113	EB	758	745	10	EB	
114	MW	758	666	81	30	
115	TBP	758	739			TBP supernate tank, 200-W Area
116	EB	758	92	666	EB	Active bottoms tank, 200-W Area
117	EB	758	756			
118	1C	758	718	40	14	Evap. feed tank 200-W Area
TY Farm						
101	R	758		758	291 **	
102	R	758		747	287	
103	TBP	758		758	TBP	
104	TBP	758		747	TBP	
105	TBP	758	8	758	TBP	
106	TBP	758		747	TBP	
S Farm						
101	R	758		758	291 **	
102	R	758		758	291	
103	R	758		747	287	
104	R	758		758	291	
105	R	758		758	291	
106	R	758		747	287	
107	R	758	763			
108	R	758	760			Filled 12-24-52; conveded to 109-S, Active tank, Redox Wastes
109	R	758	103	644	248	
110	R	758	774			
111	R	758	755			
112	R	758	442	305	117	

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms
** Based on Plant performance of 2,680 gallons per batch - (average - Oct., Nov., 1952)

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[redacted]

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S[redacted]

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WASTE STATUS SUMMARY & SEPARATIONS SECTION

COPY 1 OF 1, SERIES A

Period: JANUARY 1983

A.C. Morgenthaler
Planning & Scheduling Group
Waste Control
Manufacturing Department
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WASTE STATUS SUMMARY

Month of January 1953

	B Plant	T Plant
Runs of Metal Waste to waste farm during the month	———	11 plus 1 AN
Gals. increase in Metal Waste volume	———	28,875
Gals./Run average Metal Waste volume	———	2,625
Reserve Gals. available for Metal Waste on 1-31-53	1,522,000 (1)	528,000
Runs of First Cycle Waste sent to farm during the month	———	13 plus 1 AN
Gals. increase in First Cycle Waste volume	———	38,500
Gals./Run average First Cycle Waste volume	———	2,962
Reserve Gals. available for First Cycle Waste on 1-31-53	268,000 (2)	1,873,000 (2)

Remarks: (1) Decreased 23,000 gallons below previous months figure because of temporary BP waste to 111-112 BY. (2) Includes empty space in first cycle evaporator feed tanks.

	S Plant
Bismuth Phosphate Batch Equivalent	274.70
Gallons increase in fission product waste storage	424,875
Tons of Uranium, (as charged), processed, to contribute to make-up of waste	112.58
Gallons/batch equivalent to 6-3 HS	2,432
Gallons per ton of Uranium processed	3,774
Reserve Gallons available for Redox waste on 1/31/53	5,051,000

Remarks: Volume of waste per ton of processed uranium was reduced about 8% during the month of January. This was accomplished by increasing salt consumption in scrub and feed streams : 3DS, 3AS, and 3AF; by increasing the specific gravity of the concentrated waste; and by reduction in the quantity of excess caustic added during waste neutralization.

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WASTE STORAGE STATUS

As of 2-31-53

METAL WASTE

Area	Gallons x 10^3 In Storage Beg. Mo.	Metal Waste Received	In Storage End Mo.	Reserve Capacity In Batches
EAST AREA				
B	1579		1579	
C	3376 (1)		3376	
D	3227		3227	23
E	4549	23 (2)	4572	511
TOTAL	12,619	23	12642	561
WEST AREA				
F	2579		2579	
G	4737 (1)		4737	
H	6265	29	6294	192
TV				
TOTAL	12,581	29	12610	192

REMARKS: Reserve capacity at 2730 Gallons per batch.

(1) Cascades 101-103C, 101-103U, and 104-106U are now serving as feed tanks to the TBP plant. These cascades will be indicated as full until the entire cascade has been released. (2) High waste from the TBP plant return to B plant metal waste cascade at 111-112BV tanks. This waste consists of volume resulting from unplugging of waste line to this cascade; 151-ER cross-decon box catch tank contents, and caustic added for neutralization of catch tank contents.

H-2-[illegible]-X 4-52

[redacted]

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[redacted]

[redacted] WASTE STORAGE STATUS

As of 3-31-53

URANIUM CONTENT
METAL WASTE

PANS	TONS OF DEPLETED URANIUM			
	In Storage Beg. Mo.	Received	* To TBP	In Storage End. Mo.
EAST AREA				
B	383.			383
C	451.07 (2)	1.21 (3)		452.28
BX	758			758
BY	1059.01			1059.01
TOTAL	2651.11	1.21		2652.32
WEST AREA				
T	374			374
U	774.72(2)	2.08 (3)	- 395 (1)	382.80
TX	2436.10	-0.57 (4) 6.41		[illegible]
TY	------			------
TOTAL	2584.82	8.40	- 395	2100.22

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying.

REMARKS: (1) 395 tons in cascades 101-105 U are being processed by the TBP plant. (2) 632 tons in cascades 101-103 U and 405 tons in cascade 101-103 U are now being fed to the TBP plant. These quantities are not included in the above totals. (3) 1.29 tons of uranium returned to tank farms in form of recovered nitric acid. (4) Beginning July 1952 Reports 0.60 tons too much uranium credited to TBP storage tank from TBP storage runs.

[redacted]

[redacted]

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[redacted]

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WASTE STORAGE STATUS

As of 2-31-53

FIRST CYCLE WASTE

FARM	Gallons x 10^3 In Storage Beg. Mo. Supernate	Bottoms & Sludge	1st Cycle Waste Recd Supernate	Bottoms & Sludge	Feed To Evaporator Supernate	Bottoms & Sludge	In Storage End Mo. Supernate	Bottoms & Sludge	Reserve Cap. In Batches For B & T Plant Runs
EAST AREA									
B		2152		197				2349	
Evaporator Feed Tank - 106 B	425		(507)		640		282		83
C		727						727	
TX	2720	853			(507)		2213	853	
UX	1486						1486		8
	3621	2732		197	640		2984	4429	
TOTAL	7353						7420		95
WEST AREA									
T	2152	758					1152	758	—
U		382						382	
TX	2738	680	38				2776	680	655
Evaporator Feed Tank - 118 TX		718						718	
UX	[illegible]	[illegible]	38				[illegible]	[illegible]	
TOTAL	6428						6166		569

* Reserve Capacity at 2800 gallons per batch
( ) Not included in totals.

REMARKS:

[redacted]

[redacted] A-114

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WASTE STORAGE STATUS

As of 1-31-53

SECOND CYCLE WASTE CASCADES

	Cascade In Use	Gallons x 10³		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	110-111-112-B	52	414	3023 (1)
WEST AREA	110-121-112-T	180	749 (2)	1471 (3)
TOTAL		232	1163	4494

REMARKS: (1) based on 275 gallons per run of second cycle waste combined with normal cell drainage wastes (2) soft sludge measurements of 1-29-53 (3) based on 4 sludge transfers averaging 530 gallons per run of combined 224 wastes, 2nd cycle wastes, and cell drainage during year 1952.

224 BUILDING WASTES

	Cascade In Use	Gallons x 10³		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	204-203-202-B	9	270	276
WEST AREA	204-201-T 110-[illegible]-T	Insufficient cascade 92	357 see 2nd cycle	
TOTAL		101	357	276

REMARKS:

[illegible]02.05-X 4-52

[redacted]

[redacted]

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[redacted]

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[redacted]

WASTE STORAGE STATUS

As of 1-31-57

TBP WASTE

Permanent and Temporary Wastes

TANK	Gallons x 10^3 In Storage Beg. Mo. Perm	Temp (1)	TBP Received Perm	Temp (2)	In Storage End Mo. Perm	Temp (1)	Reserve Capacity Perm	Temp(1) see
EAST AREA								
B					1580		860(4)	B plant
C	560		2020				1000*	Metal
BX						73	757	Waste
BY		55		23				
TOTAL	560	55	2020	23	1580	73	2715	Reserves
WEST AREA								
T	1200		68		1268			
U							(5)	
TX		9(1) 372(2)				9 372		
TY			164		164		2816*	
TOTAL	1200	380	232	0	1432	380	2816*	

Supernate tanks, 209 BY and 125 TX not included in the above.

Gallons x 10^3 of condensate to crib 3609 (3)

Type Of TBP Wastes	RATIOS & Waste Volumes/Feed* Volumes: Basis Uranium Content processed		Basis Metal Waste Volume processed	
	This Month	Cumulative	This Month	Cumulative
Combined Permanent & Temporary Wastes	2.46	2.58	2.17	2.29

REMARKS: (2) Temporary wastes and reserve capacities are stored with total waste inventories.

(2) Temporary waste stored in 209 BY supernate tank (3) Cribbed waste included 3.97 tons of depleted and decontaminated uranium. (4) New incinerator tank 1604 which was in temporary service is a supernate tank (5) 200 U series removed from TBP reserve to Redox reserve.

*Feed figures have been adjusted to give equivalent metal waste volumes

[redacted]

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WASTE STORAGE STATUS

As of 1-31-93

WASTE EVAPORATOR

FARM	Feed Supernate	Feed Bottoms	Bottoms Manufactured	Condensate To Cribs	Reserve Bottoms Space
	Gallons x 10^3				
EAST AREA					
B			197	443	105
C					
BX	620				
BY					
TOTAL	620		197	443	105

Note: Because of depletion of bottoms reserve, re-evaporation of bottoms tanks will be necessary about the middle of February.

WEST AREA					
T					
U					676
TX	—	—	—	—	
TY					
TOTAL	—	—	—	—	—

REMARKS: West Area evaporator shut down for repairs; bottoms re-evaporation will commence sometime in February.

REDOX WASTE

FARM	In Storage Beg. Mo.	Waste Received	In Storage End Mo.	** Reserve Capacity In Storage
	Gallons x 10^3			
S Farm	3597	425	3572	1294
SU Farm				
TOTAL	3597	425	3572	1294

Gallons x 10^3 of condensate to crib 2077 (2)

** Will be considered as Redox reserve capacity when empty.

Reserve Capacity at 3900 gallons per tank

REMARKS: (1) cribbed waste volume high due to taking Dual waste concentrator condensate to crib (2) A total of 2,929,000 gallons of storage are available in tank farm [redacted] TY and TX

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[redacted]

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STATUS OF WASTE FARMS

	Type of Waste	Gallons x 10^3 Capacity	Stored Total	Stored [illegible]	Reserve Capacity [illegible]	Reserve Capacity In Patches	Remarks
B Farm							
101	MW	530	[illegible]				
102	MW	530	[illegible]				
103	MW	530	[illegible]				
104	BB	530	[illegible]	300			
105	BB	530	[illegible]	[illegible]	[illegible]	55	Active [illegible]
106	2C	530	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
107	BB	530	[illegible]	220			
108	BB	530	[illegible]	[illegible]			
109	BB	530	[illegible]	[illegible]			
110 1C-2C-	[illegible]	530	[illegible]				Active cascade-B plant-(includes
111 1C-2C-	[illegible]	530	[illegible]				[illegible]
112 1C-2C-	[illegible]	542	[illegible]				[illegible]
201 MW	22[illegible]	54.5	[illegible]				Active cascade-B plant-(includes
202 MW	22[illegible]	54.5	[illegible]				[illegible]
203 MW	22[illegible]	54.5	[illegible]				[illegible]
204		54.5	[illegible]				
C Farm							
101	MW	530	[illegible]				Cascade now processing [illegible]
102	MW	530	[illegible]	[illegible]			[illegible]
103	MW	530					
104	MW	530	[illegible]				
105	MW	530	[illegible]				
106	MW	530	[illegible]				
107	1C-TBP	[illegible]	[illegible]	[illegible]	[illegible]	TBP	[illegible]
108	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	TBP	
109	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	TBP	[illegible]
110	1C-TBP	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
111	1C-TBP	[illegible]	[illegible]				
112	1C-TBP	[illegible]	[illegible]	[illegible]	[illegible]	TBP	
201	MW	[illegible]	[illegible]				
202	MW	[illegible]	[illegible]				
203	MW	[illegible]	[illegible]				
204	MW	[illegible]	[illegible]				

MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

22h - 22h Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

[redacted]

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[redacted]

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[redacted]

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STATUS OF WASTE TANKS

	Type of Waste	Gallons x 10^3 Capacity	Storage Liquid	Storage Solids	Reserve Tank Gal	Reserve Tank In Inches	Remarks
BX Farm							
101	MW	530	[illegible]		[illegible]		
102	MW	530	[illegible]				
103	MW	530	[illegible]				
104	MW	530	[illegible]				
105	MW	530	[illegible]				
106	MW	530	[illegible]				
107	2C-TBP	530	[illegible]	[illegible]	[illegible]	TBP	
108	2C-TBP	530	[illegible]	[illegible]	[illegible]	TBP	Pumped down to heel [illegible]
109	2C-TBP	530	[illegible]	[illegible]	[illegible]	TBP	Pumped down to heel [illegible]
110	2C	530	[illegible]	[illegible]			
111	2C	530	[illegible]	[illegible]			
112	2C	530	[illegible]	[illegible]			
BY Farm							
101	MW	758	[illegible]				
102	MW	758	[illegible]				
103	MW	758	[illegible]				
104	MW	758	[illegible]				
105	MW	758	[illegible]		[illegible]	[illegible]	
106	MW	758	0		[illegible]	[illegible]	
107	2C-TBP	758	[illegible]	[illegible]	[illegible]	TBP	
108	2C	758	[illegible]	[illegible]			
109	TBP	758			[illegible]	[illegible]	Tank for 200East TBP Removal Operations
110	supernate 1C	758	[illegible]	0	25	8	
111	MW	758	[illegible]		0		Receives TBP waste from 200 East
112	MW	758	[illegible]		362	[illegible]	Temporary storages
T Farm							
101	MW	530	[illegible]				
102	MW	530	[illegible]				
103	MW	530	[illegible]				
104	1C	530	[illegible]	[illegible]			[illegible]
105	1C	530	[illegible]	[illegible]			[illegible]
106	1C	530	[illegible]	[illegible]			[illegible]
107	1C TBP	530	[illegible]	[illegible]			[illegible] TBP waste [illegible]
108	1C TBP	530	[illegible]	[illegible]			[illegible]
109	1C TBP	530	[illegible]	[illegible]			

* MW - Mixed Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
[illegible]

22h - 22h Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

[redacted]

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[redacted]

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[redacted]

Status of Waste Tanks

	Type of Waste	Gallons x 10³ Capacity	Gallons x 10³ Solids	Gallons x 10³ Supernate	Reserve Space Gal x 10³	Reserve Space In Batches	Remarks
T Farm							
110	224 1C	530	530	[illegible]			Recycle evaporator plant
111	224 1C	530	530	[illegible]			Tank cascaded to 112
112	224 1C	559	559	[illegible]			
201	224	54.5	[illegible]	[illegible]			
202	224	54.5	[illegible]	[illegible]			
203	224	54.5	[illegible]	[illegible]			
204	224	54.5	[illegible]	[illegible]			
U Farm							
101	MW	530					Cascades 101-103 and 104-106 are serving as feed to PFP
102	MW	530					
103	MW	530	1250		1128		
104	MW	530					
105	MW	530					
106	MW	530					
107	MW	530	530				
108	MW	530	530				
109	MW	530	530				
110	1C	530	336	336	[illegible]	[illegible]	Cascade being held as Redox waste reserve.
111	1C	530	22	[illegible]	516	332	
112	1C	530	32	[illegible]	498	328	
201	R	54.5			[illegible]	[illegible]	
202	R	54.5			[illegible]	[illegible]	
203	R	54.5			[illegible]	[illegible]	
204	R	54.5			[illegible]	[illegible]	
TX Farm							
101	MW	758	758				
102	MW	758	758				
103	MW	758	758				
104	MW	758	758				
105	MW	758	766				Achieve metal waste tank
106	MW	758	322		[illegible]	[illegible]	
107	MW	758	756				
108	MW	758	757				
109	1C	758	758	[illegible]			Achieve first cycle waste tank
110	1C	758	436	0	322	[illegible]	
111	1C	758			[illegible]	[illegible]	Cascade being held for Redox
112	1C	758			[illegible]	364	

- MW - Metal Waste
- 1C - First Cycle Waste
- 2C - Second Cycle
- R - Redox Waste

224 - 224 Ridge Waste
TBP - TBP Waste
[illegible] - Evaporator Bottoms

[redacted]

** See bottom of page [illegible]

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[redacted]

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STATUS OF WASTE FARMS

	* Type of Waste	Gallons x 10^3 Capacity	Stored Total	Stored Supernate	Reserve Capacity 200 Gal.	Reserve Capacity In Batches	Remarks
TX Farm (cont'd)							
113	EB	758	718	252	[illegible]	EB	
114	MW	758	655	[illegible]	[illegible]	[illegible]	TBP supernate tank-200 West Areas
115	TBP		[illegible]	[illegible]	[illegible]		Recent operations
116	Supernate EB	758	92		[illegible]	[illegible]	Actinide bottoms tank-200 W evap.
117	EB	758	755		[illegible]		
118	1C	758	728		[illegible]	[illegible]	Actinide feed tank
TY Farm							
101	R	758			[illegible]	[illegible]	
102	R	758			[illegible]	[illegible]	
103	TBP	758			[illegible]	TBP	
104	TBP	758			[illegible]	TBP	
105	TBP	758	[illegible]		[illegible]	TBP	
106	TBP	758			[illegible]	TBP	
S Farm							
101	R	758			[illegible]	[illegible]	
102	R	758			[illegible]	[illegible]	
103	R	758			[illegible]	[illegible]	
104	R	758			[illegible]	[illegible]	
105	R	758			[illegible]	[illegible]	
106	R	758					
107	R	758	[illegible]				
108	R	758	[illegible]				
109	R	758	[illegible]		[illegible]		Actinide tank-Redox wastes
110	R	758	[illegible]				
111	R	758	[illegible]				
112	R	758	[illegible]				

* MW - Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

** Based on [illegible] gallons per [illegible] of [illegible] (January 1955)

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[redacted]

[redacted]

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[redacted]

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WASTE STATUS SUMMARY - SEPARATIONS SECTION

Period: February, 1953

A.C. Morganthaler
Planning & Scheduling Group
Waste Control
Manufacturing Department
Separations Section

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Sep. 2

WASTE STATUS SUMMARY

Month of February, 1953

	B Plant	T Plant
Runs of Metal Waste to Waste farm during the month		29
Gals. increase in Metal Waste volume		75,625
Gals./Run. average Metal Waste volume		2,608
Reserve Gals. available for Metal Waste on 2-28-53	1,518,000	443,000
Runs of First Cycle Waste sent to farm during the month		29
Gals. increase in First Cycle Waste volume		63,250
Gals./Run average First Cycle Waste volume		2,181
Reserve Gals. available for First Cycle Waste on 2-28-53	53,000(1)	1,979,000(1)

Remarks: (1) Includes empty space in First Cycle Evaporator Feed to Tanks.

	S Plant
Bismuth Phosphate Batch Equivalents	92.56
Gallons increase in fission product waste storage	287,529
Tons of Uranium, (as charged), processed, to contribute to make-up of waste	53.63
Gallons/batch equivalent to 6-3 NS	3,106 (1)
Gallons per ton of Uranium processed	5,361 (1)
Reserve Gallons available for Redox waste on 3-1-53	4,763,000

Remarks: High waste volume per ton and per batch resulted from a large flush of dissolution in 240-S-151 and from a large quantity of reworks in uranium extraction cycles.

2.01-X -4-52

[redacted]

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WASTE STORAGE STATUS

As of 2-28-53

METAL WASTE

TANK	Gallons x 10^3 In Storage Beg. Mo.	Metal Waste Received	In Storage End Mo.	Reserve Capacity In Batches*
EAST AREA				
B	1.579		1.579	
C	3.374 (1)		3.374	
BX	3.117		3.117	23
BY	4.572	6	4.578	539
TOTAL	12.642	6	12.648	562
WEST AREA				
T	1.579	[illegible]	1.579	
U	4.737 (1)		4.737	
TX	6.294	76	6.370	164
TY				
TOTAL	12.610	76	12.686	164

REMARKS: *Reserve capacity at 2700 Gallons per batch.

(1) Cascades 101-103-C, 101-103-U and 104-106-U are now serving as metal waste feed sources for the T2P Plant. These Cascades will be indicated as full until the entire Cascade has been released.

[redacted]

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[redacted]

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WASTE STORAGE STATUS

As of 2-28-53

URANIUM CONTENT
METAL WASTE

FARM	TONS of Recoverable Depleted Uranium			
	In Storage Beg. Mo.	Received	* To TBP	In Storage End Mo.
EAST AREA				
B	383			383
C	[illegible]	0.72 (2)	52 (3)	401.00
BX	758			758
BY	1,059.04			1,059.04
TOTAL	2,652.32	0.72	52	2601.04
WEST AREA				
T	374			374
U	382.80 (1)	2.00 (2)		384.80
TX	1,441.42	20.30		1,461.72
TY	—			—
TOTAL	2,198.22	22.30		2,220.52

* Tons of uranium transferred as metal waste to the Waste Removal Group for slurrying.

REMARKS: (1) The following amounts of Uranium are not included in the above totals. This represents Uranium storage in TBP feed cascades at the date of initial processing of a cascade: 395 tons, 101-103-U; 405 tons-101-103-U; and 395 tons in 104-106-U.

(2) 2.72 tons of Uranium returned to tank farms in form of recovered nitric acid. (3) 52 tons of uranium in tanks 201-201-U are now being sluiced for feed to the TBP plant.

[redacted]

H-2[illegible].03-X 4-52

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[redacted]

WASTE STORAGE STATUS

As of [illegible]

FIRST CYCLE WASTE
AND [illegible] WASTES

TANK	Gallons x 10^3								Reserve Capacity In Batches
	In Storage Beg. Mo.		1st Cycle Waste Rec'd		Feed To Evaporator		In Storage End Mo.		
	Supernate	Bottoms & Sludge	Supernate	Bottoms & Sludge	Supernate	Bottoms & Sludge	Supernate	Bottoms & Sludge	For B & BY Plant [illegible]
EAST AREA									
B		[illegible]		(9[illegible])		(4[illegible])		[illegible]	[illegible]
Evaporator Feed Tank - 106 B	282			(4[illegible])	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C		[illegible]						[illegible]	
BX	[illegible]	[illegible]					[illegible]	[illegible]	
BY	1486						1486		[illegible]
TOTAL	[illegible]	(1[illegible])		(8[illegible])	[illegible]		[illegible]	[illegible]	
	7[illegible]						69[illegible]		
WEST AREA									
U	[illegible]	[illegible]					[illegible]	[illegible]	
U		382						382	
TX	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]
Evaporator Feed Tank - 118 TX		[illegible]				[illegible]		[illegible]	
TY	—								
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	43[illegible]

* Reserve Capacity at [illegible] gallons per batch

( ) Not included in totals.

REMARKS: [illegible]

[redacted]

[illegible]

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WASTE STORAGE STATUS

As of 7-28-53

SECOND CYCLE WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	110-111-112-B	[illegible]	[illegible]	3020 (1)
WEST AREA	110-111-112-T	[illegible]	[illegible]	[illegible] (2)
TOTAL		[illegible]	[illegible]	[illegible]

REMARKS: (1) Based on [illegible] gallons per run of second cycle waste combined with normal [illegible] drainage waste.

(2) Based on a sludge increase averaging 530 gallons per run of combined 224 waste, 2nd.cycle waste, and cell drainage.

224 BUILDING WASTES

	Cascade In Use	Gallons x 10^3		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	200-201-202-B	--	170	[illegible]
WEST AREA	200-201-202-T 110-111-112-T	Inactive cap [illegible]	187 See second cycle	
TOTAL		[illegible]	[illegible]	[illegible]

REMARKS:

[redacted]

H-2902.05-X 4-52

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[redacted]

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WASTE STORAGE STATUS

As of 2-28-53

TBP WASTE

PERMANENT AND TEMPORARY WASTE

TANK	Gallons x 10^3 In Storage Beg. Mo. Perm.	Temp. (1)	TBP-WASTE Received Perm.	Temp. (1)	In Storage End Mo. Perm.	Temp. (1)	Reserve Capacity Perm.	Temp. (1)
EAST AREA								
B	—	—	—	—	—	—	—	See
C	1580	—	—	—	1580	—	860	B Plant
BX	[illegible]		[illegible]		485		575	Metal
BY		89	91	[illegible]	[illegible]	95	757	Waste
TOTAL	1580	89	570	[illegible]	[illegible]	[illegible]	2192	Reserve
WEST AREA								
U	1265				1265			
V								
TX		[illegible]				[illegible]		
TY	161		[illegible]		251		2756	
TOTAL	[illegible]	280	[illegible]	[illegible]	[illegible]	280	2756	

Supernate tanks, 109 BY and 115 TX not included in the above.

Gallons x 10^3 of condensate to crib [illegible]

Ratio: * Feed to Waste

	Gross Uranium	Feed Volume to Waste Volume
During month	[illegible]	1.20
Cumulative to date	[illegible]	[illegible]

* Feed adjusted to metal waste equivalent

REMARKS: (1) Temporary wastes and reserve capacities are shown that water waste inventories.

(2) Temporary waste stored in 116-B Supernate Tank.

(3) Increase in temporary waste [illegible] 12-BY recovery due to drainage of transfer line from 151-ER Diversion Box [illegible]

U-2902.06-X 4-52

[redacted]

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As of 3-29-57

WASTE EVAPORATOR

FARM	Gallons x 10^3					
	Feed Source		Bottoms Manufactured		Condensate To Cribs	Reserve Bottoms Space
EAST AREA	Supernate	Bottoms	Supernate	Bottoms		
B		45		0	37	467
C						
F	189					
BY						
TOTAL	152	45		97	137	467
WEST AREA	East Area bottoms manufactured as follows: 67,000 gallons from Supernate Evap. 30,000 gallons from Bottoms Evap.					
T						
U						
TY		169	126		43	550
TU						
TOTAL		169	126		43	550

REMARKS:

REDOX WASTE

FARM	Gallons x 10^3			
	In Storage Beg. Mo.	Waste Received	In Storage End Mo.	Reserve Capacity In Batches
S Farm	1072	237	4309	1148
TU Farm				
TOTAL	1072	237	4309	1148

Gallons x 10^3 of condensate to crib 431.

* Will be considered as Redox reserve capacity when empty.

** Reserve Capacity at 4150 gallons per 6-3 equivalent batch

REMARKS: A total of 2,920,000 gallons of storage is available in tank farms 241-Ty and U for the Redox Plant wastes.

[redacted]

H-2902.07-X 4-52 [redacted]

A-129

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[redacted]

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STATUS OF WASTE FARMS

	Type of Waste	Gallons x 10^3 Capacity	Storage Total	Storage Sludge	Reserve Cap. 1000 Gal.	Reserve Cap. in Batches	REMARKS
B Farm							
101	MW	530	530				
102	MW	530	530				
103	MW	530	519				
104	EB	530	531	309			
105	EB	530	491	39	39	EB	
106	IC	530	492	0	38	11	200E. Evap. Feed Tank
107	EB	530	531	225			
108	EB	530	102	34	425	EB	Pumped to 106-B for re-evap. 2-18-53; Active bottoms tank 200 E. Evap.
109	EB	530	535	0			
110-IC-20	5-6	530	530				Active cascade-B Plant-(Includes flushes of 1-C, 2-C, and cell drngs. from 221-B Bldg.
111-IC-20	5-6	530	530				
112-IC-20	5-6	542	542				
201 MW	224	54.5	54.5				Active cascade-U Plant-(Includes flushes of 224-B and extraction cells in Bldg. 221-U
202 MW	224	54.5	54.5				
203 MW	224	54.5	54.5				
204 MW		54.5	54.5				
C Farm							
101	MW	530	536		1043 (1)		Cascade now processing for feed to TBP Plant
102	MW	530					
103	MW	530					
104	MW	530	530				
105	MW	530	530				
106	MW	530	519				
107	IC-TBP	530	399-419	399		TBP	Overflow line to 108-C plugged.
108	IC-TBP	530	34-39	34		TBP	
109	IC-TBP	530	10-0	10	209	TBP	Was temp. supernate tank; now available for waste storage MT-1-9-53
110	IC-TBP	530	231-307	231	0		Overflow line to 111-C plugged
111	IC-TBP	530	36-400	36	0		
112	IC-TBP	530	17-213	17	289	TBP	
201	MW	54.5	54.5				Cascade now processing for feed of TBP plant
202	MW	54.5	54.5		(1)		
203	MW	54.5	54.5				
204	MW	54.5	54.5				

MW - Metal Waste
IC - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste

224 - U. Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

(1) [illegible] gallons is the equivalent [illegible] of metal waste received from [illegible] as of [illegible]

H-2902.08 -X 4-52

[redacted]

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[redacted]

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STATUS OF WASTE FARMS

	Type of Waste	Gallons x 10^3 Capacity	Storage Total	Storage Sludge	Reserve Cap. 1000 Gal	Reserve Cap. in Batches	REMARKS
BX Farm							
101	MW	530	530				
102	MW	530	467		63	23	
103	MW	530	530				
104	MW	530	530				
105	MW	530	530				
106	MW	530	530				
107	1C-TBP	530	437-0	437	93	TBP	
108	1C-TBP	530	10-0	10	509	TBP	
109	1C-TBP	530	34-489	34		TBP	Cascaded to 107-BY on 2/27/53
110	1C	560	530	133			
111	1C	530	525	0			
112	1C	530	520	239			
BY Farm							
101	MW	758	758				
102	MW	758	758				
103	MW	758	661		83	31	
104	MW	758	758				
105	MW	758	491		267	99	
106	MW	758	0		747	277	
107	1C-TBP	758	1-91	1	666	TBP	Received from 109-BX 2/27/53
108	1C	758	753	0			
109	TBP	758	0		758	supernate	tank for 200W TBP-Removal
110	1C	758	732	0	21	8	
111	MW	758	759		0		Receives high waste from TBP
112	MW	758	389		368	132	for temporary storage
T Farm							
101	MW	530	530				
102	MW	530	530				
103	MW	530	519				
104	1-C	530	530	377			
105	1-C	530	530	149			
106	1-C	530	528	10			
107	1-C TBP	530	245-291	201			
	1-C TBP	530	73-458	21			
	1-C TBP	530	4-520	0			

*MW-Metal Waste
1C - First Cycle Waste
2C - Second Cycle Waste
R - Redox Waste
224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

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[redacted]

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	Type of Waste	Gallons × 10^3 Capacity	Storage Total	Storage Sludge	Reserve Cap. 1000 Gal.	Reserve Cap. in Batches	REMARKS
T Farm							
110	5-6;224;2-3	530	530	530			Active cascade-T Plant
111	5-6;224;2-3	530	530	191			
112	5-6;224;2-3	569	519	28			112-T cascades to crib
201	224	54.5	54.5	54.5			
202	224	54.5	54.5	54.5			
203	224	54.5	54.5	54.5			
204	224	54.5	54.5	54.5			
U Farm							
101	MW	530					Cascades 101-103 and 104-106U now serving as feed to TBP
102	MW	530					
103	MW	530					
			1014		214 (1)		
104	MW	530					
105	MW	530					
106	MW	530					
107	MW	530	530				
108	MW	530	530				
109	MW	530	529				
110	1C	530	336	336	194	[illegible]	Cascade being held as Redox waste reserve.
111	1C	530	14	14	516	124	
112	1C	530	32	32	498	120	
201	R	54.5			52.5	13	
202	R	54.5			54.5	13	
203	R	54.5			54.5	13	
204	R	54.5			54.5	13	
TX Farm							
101	MW	758	758				
102	MW	758	758				
103	MW	758	758				
104	MW	758	758				
105	MW	758	766				105-106-TX overflow, replugged on 2/ /53; unplugged on 2/ /53.
106	MW	758	396		362	134	Active metal waste tank-T Plant
107	MW	758	766				
108	MW	758	751				
109	1C	758	758	415			
110	1C	758	499	9	259	93	Active first cycle waste Tnk T Plant
111	1C	758			758	271	
112	1C	758			758	269	Tank to be held for Recuplex wastes.

** See bottom of Page H-2902-11-X [redacted]

*MW - Metal Waste
*1C - First Cycle Waste
2C - Second Cycle
R - Redox Waste

224 - 224 Bldg. Waste
TBP - TBP Waste
EB - Evaporator Bottoms

(1) 2,144,000 gallons is the calculated volume of metal waste removed from tanks 101-106U since startup of TBP.

RPP-13300, Rev. 0 [redacted]

HU-27842
5-9-12

STATUS OF WASTE FARMS

	Type of Waste	Gallons x 10^3 Capacity	Storage Total	Storage Sludge	Reserve Cap. 1000 Gal.	Reserve Cap. in Batches	REMARKS
TX Farm (cont'd)							
113	EB	758	748	252	10	EB	
114	MW	758	666	4	81	30	
115	TBP		759	0			TBP Supernate tank-200W A.C. removal operations
116	EB	758	218		540	EB	Active bottoms tank-200W
117	EB	758	756				
118	1C	758	549		209	75	200 West Area evap feed tank
TY Farm							
101	R	758			758	**183	
102	R	758			747	180	
103	TBP	758			758	TBP	
104	TBP	758			747	TBP	
105	TBP	758	254		504	TBP	
106	TBP	758			747	TBP	
S Farm							
101	R	758			758	183	
102	R	758			758	183	
103	R	758			747	180	
104	R	758	233		525	127	104S started receiving Redox D-8 Lat. coating and hot condensate wastes 2/9/5
105	R	758			758	183	
106	R	758			747	180	
107	R	758	763				
108	R	758	760				
109	R	758	582		165	39	Continues to receive centrifuge cake waste
110	R	758	772				
111	R	758	755				
112	R	758	442		305	[illegible]	

**Based on plant performance of 4150 gallons per ton of processed uranium.

*MW - Metal Waste — 224 - 224 Bldg. Waste
1C - First Cycle Waste — TBP - TBP Waste
2C - Second Cycle Waste — EB - Evaporator Bottoms
R - Redox Waste

H-[illegible] 11-X 4-52

[redacted]

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RECORD CENTER FILE

[redacted]

HW-27775

This document consists of 26 pages. Copy No. 26 of 28 copies. Series A

COPY 1 OF 1, SERIES MA

SEPARATIONS SECTION

WASTE STATUS SUMMARY

March 31, 1953

By

A.C. Mergenthaler Jr.

Planning and Scheduling Operations Unit

CLASSIFICATION CANCELLED OR CHANGED TO Declassified BY AUTHORITY OF H.E. Parker DATE 5-10-82
BY [signature] 2-11-92
[signature] 2-11-92

Distribution

#1 JK Maider	#5 GP Hill	#9 EA Tomlett	#13 GE Carpenter
2 RS Ball	6 WM Mobley	10 CT Grossvith	14-18 Extra
3 VR Chapman	7 VD Donohoe	11 [illegible] Courtney	19 700 File
4 VR Cooper	8 CP Cate-Ll	12 D McDonald	20 Yellow File

[redacted]

[redacted]

RECEIVED
JUN 0[illegible] 1956
300 AREA
CLASSIFIED FILES

[redacted]

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[redacted]

WASTE STATUS SUMMARY EW - 27775

Month of March, 1953

	B Plant	T Plant
Runs of Metal Waste to waste farm during the month		45 and 1AW
Gals. increase in Metal Waste volume		126,500
Gals./Run average Metal Waste volume		2,811
Reserve Gals. available for Metal Waste on 3/31/53.	1,518,000	316,000
Runs of First Cycle Waste sent to farm during month.		47 and 1AW
Gals. increase in First Cycle Waste volume		134,750
Gals./Run average First Cycle Waste volume		2,684 (1)
Reserve Gals. available for First Cycle Waste on 3/31/53.	249,000 (2)	1,705,000 (2)

Remarks: (1) After correction for 8500 gallons of liquid received into first cycle storage from 154TX Catch Tank.

(2) Includes empty space in first cycle evaporator feed tanks.

	S Plant
Bismuth Phosphate Batch Equivalent	205.61
Gallons increase in fission product waste storage	508,000
Tons of Uranium (as charged), processed, to contribute to make-up of waste	127.34
Gallons/batch equivalent to 6-3 PS	2,477
Gallons per ton of Uranium processed	3,990
Reserve Gallons available for Redox waste on 3/31/53	4,255,000

Remarks:

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[redacted]

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[redacted]

HW 27775

WASTE STORAGE STATUS

As of 3/31/53

METAL WASTE

PART	Gallons x 10^3 In Storage Beg. Mo.	Metal Waste Received	In Storage End Mo.	Reserve Capacity In Batches
EAST AREA				
B	1,579		1,579 (1)	
C	3,374		3,374 (1)	
[illegible]	3,117		3,117	23
[illegible]	4,578		4,578	539
TOTAL	12,648		12,648	562
WEST AREA				
T	1,579		1,579	
U	4,737		4,737	
TX	6,370	127	6,497	117
TV				
TOTAL	12,686	127	12,813	117

REMARKS: Reserve capacity at 2700 Gallons per batch.

These cascades are now partially processed as feed material for the TBP Plant. 201-103U; 104-106U; 101-103C; Tank 106C; Tanks 201-202-C; 101-103B, Cascades will be indicated as full until they have been released for storage of other waste.

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[redacted]

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[redacted]

HW 27775

WASTE STORAGE STATUS

As of 3/31/53

URANIUM CONTENT
METAL WASTE

FARM	TONS OF RECOVERABLE DEPLETED URANIUM			
	In Storage Beg. Mo.	Received	*To TBP	In Storage End Mo.
EAST AREA				
B	383	1.29 (3)	383 (2)	1.29
C	401.00	1.20 (3)	383 (2)	19.20
BX	758			758
BY	1059.04			1059.04
TOTAL	2601.04 (1)	2.49	766	1837.53
WEST AREA				
T	374			374
U	364.80	1.62 (3)		386.42
TX	2461.72	26.55		2488.27
TY				
TOTAL	2220.52 (1)	28.17		2248.69

*Tons of Uranium transferred as metal waste to the Waste Removal Group for slurrying.

REMARKS: (1) Cascades which are now supplying feed to the TBP Plant or cascades which have been partially processed are not included in the above totals. 405 tons in 101-103-C; 395 tons in 104-106-U; 395 tons in 101-103-C; 52 tons in 200 C Series.

(2) Cascade 101-103-B and Supernate solution from tank 106-C of cascade 104-106-C now serving as TBP feed.

(3) 4.4 tons of Uranium returned to tank farms in form of recovered nitric acid

H-2903.03-X. 4-52

[redacted]

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[redacted] BW 27775

WASTE STORAGE STATUS

AS OF 3/31/53

FIRST CYCLE WASTE and coating wastes

FARM	GALLONS X 10⁶ IN STORAGE BEGINNING MONTH		1ST CYCLE WASTE RECEIVED		FEED TO EVAPORATOR		IN STORAGE ENDING MONTH		RESERVE CAP. IN BATCHES
EAST AREA	SUPER-NATE	BOTTOMS AND SLUDGE	SUPER-NATE	BOTTOMS AND SLUDGE	SUPER-NATE	BOTTOMS AND SLUDGE	SUPER-NATE	BOTTOMS AND SLUDGE	FOR B AND T PLANT RUNS
B		2190		257		(205)[1]		2242	
EVAPORATOR FEED TANK = 106-B		492		(205)[1]		395		302	81
C		727						727	
BX	1213	853					1213	853	
BY	1485	1					1485	1	8
TOTAL	2698 / 6961	4263		257		395	2698 / 6823	4125	89
WEST AREA									
T	1152	758					1152	758	
U		382						382	
TX	833	2146	135	444		(755)[2]	968	2835	584 (3)
EVAPORATOR FEED TANK = 118 TX		548		(755)[2]		615		688	25
TY									
TOTAL	1985 / 5819	3834	135	444		615	2120 / 6663	5663	609

= RESERVE CAPACITY AT 2800 GALLONS PER BATCH
( ). NOT INCLUDED IN TOTALS.

REMARKS

(1) Pumped from bottoms tank 109B to feed tank 106-B.

(2) Pumped from bottoms tank 117TX to feed tank 118TX.

(3) Tank 112TX is no longer being held in reserve for Bayless Wastes and is now assigned to reserve space for first cycle waste.

[redacted]

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[redacted]

HW 27775

WASTE STORAGE STATUS

As of 3/31/53

SECOND CYCLE WASTES

	Cascade In Use	Gallons x 10³		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	110-111-112-B	22	414	3020 (1)
WEST AREA	110-111-112-T	280	790	1392 (2)
TOTAL		302	1204	

REMARKS: (1) Based on 275 gallons per run of second cycle waste combined with normal cell drainage waste.

(2) Based on a sludge increase averaging 530 gallons per run of combined 224 waste, 2nd. cycle, and cell drainage waste.

224 BUILDING WASTES

	Cascade In Use	Gallons x 10³		Estimated Reserve Capacity In Batches
		Cribbed	Sludge	
EAST AREA	204-201-202-B	21	179	476
WEST AREA	204-201-T 110-111-112-T	Inactive cascade 168	187 See second cycle	
TOTAL		189	367	476

REMARKS:

[redacted]

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FW 27775

WASTE STORAGE STATUS

AS OF 3/31/53

TBP WASTE
PERMANENT AND TEMPORARY WASTES

GALLONS X 10^3

BARN	IN STORAGE BEGINNING MONTH		TBP RECEIVED		IN STORAGE ENDING MONTH		RESERVE CAPACITY	
	PERM.	TEMP. (1)	PERM.	TEMP. (1)	PERM.	TEMP. (1)	PERM.	TEMP. (1)
EAST AREA								SEE
B								
C	1550		236		1216		622	B PLANT
BX	433		3		495		602	METAL
BY	91	95	656		742	95	12	WASTE
TOTAL	2190	95	895		2453	95	1230	RESERVED
WEST AREA								
T	1268				1268			
U								
TX		9 (1) 372 (2)				9 372		
TY	254				254		2261 (3)	
TOTAL	1522	320			1522	320	4261	

TYPE OF TBP WASTES	RATIOS: WASTE VOLUME TO FEED VOLUMES	
	BASIS: URANIUM TONNAGE (4) OUTPUT	
	THIS MONTH	CUMULATIVE
PERMANENT WASTES	1.20 (4)	[illegible] (4)

SUPERNATE TANKS, 149 BY AND 118 TX NOT INCLUDED IN THE ABOVE.

GALLONS X 10^3 OF CONDENSATE TO CRIB 3300

REMARKS: (1) TEMPORARY WASTES AND RESERVE CAPACITIES ARE SHOWN WITH METAL WASTE INVENTORIES.

(2) Temporary waste stored in 118 TX Supernate Tank.

(3) Reserve capacity for storage of TBP Wastes increased by allocation of Tanks 101-102 TX to TBP.

(4) Gallons of waste per ton of output may be obtained by multiplying ratio times 4200.

[redacted]

H-2902, 6-48 (3-53)

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[redacted]

HW [illegible]

WASTE STORAGE STATUS

AS OF 3/31/53

WASTE EVAPORATOR

GALLONS X 10^3

FARM	FEED SUPERNATE	FEED BOTTOMS	BOTTOMS MANUFACTURED	CONDENSATE TO CRIB	RESERVE BOTTOMS SPACE
EAST AREA					
B		395	257	138	410
C					
BX					
BY					
TOTAL		395	257	138	410
REMARKS:	Tank 109-B pumped to feed tank for re-evaporation on 3/24/53.				
WEST AREA					
U					
TX		615	444	171	863
TY					
TOTAL		615	444	171	863
REMARKS:	Tank 117-TX completed pumping to feed tank for re-evaporation on 3/30/53.				

REDOX WASTE

GALLONS X 10^3

FARM	IN STORAGE BEG. MO.	WASTE RECEIVED	IN STORAGE - END. MO.	RESERVE CAPACITY IN TONS
B FARM	4309	508	4817	1025
U FARM				
TOTAL	4309	508	4817	1025

GALLONS X 10^3 OF CONDENSATE TO CRIB 746

* WILL BE CONSIDERED AS REDOX RESERVE CAPACITY WHEN EMPTY.

** RESERVE CAPACITY AT 4150 GALLONS PER TON.

REMARKS: A total of 1,424,000 gallons of storage is available in tank farm 241-U for the Redox Plant waste. Tanks 241-101 and 102-TY are no longer allocated to Redox, but to TBP Plant.

H-2902, 7-M (3-53)

[redacted]

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[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
B FARM							
101	MW	530			(1)		Cascade now processing
102	MW	530	1291		288		for feed to TBP Plant.
103	MW	530					
104	EB	535	532	309			
105	EB	530	492	39	38	EB	
106	IC	530	302	0	228	81	200 East Evap. Feed Tank
107	EB	530	532	220			
108	EB	530	359	34	171	EB	Active bottoms tank.
109	EB	530	330	0	200	EB	Pumped to 106-B.
110-IC-2C-	S-[illegible]	530	530				Receives B Plant flushes
111 IC-2C-	S-[illegible]	530	530				of 1-C-2-C, cell drainage
112 IC-2C-	S-[illegible]	530	572				
201 MW	224	54.5	54.5				Receives B Plant flushes
202 MW	224	54.5	54.5				of 224 Bldg. & extract.cls.
203 MW	224	54.5	54.5				
204	224	54.5	54.5				
C FARM							
101	MW	530					Cascade now processing
102	MW	530					for feed to TBP Plant
103	MW	530			(2)		
104	MW	530	1507		1651		
105	MW	530					
106	MW	530					Tank 106-C supply super.
107	IC-TBP	530	300-119	300	12	TBP	Overflow to 108C plugged
108	IC-TBP	530	34-493	34	3	—	Now receiving TBP process
109	IC-TBP	530	10-272	10	327	TBP	waste
110	IC-TBP	530	231-307	231	—		Overflow to 111C plugged
111	IC-TBP	530	36-500	36			
112	IC-TBP	530	17-232	15	270	TBP	
201	MW	54.5	52.6				Cascade now processing
202	MW	54.5	54.5				for feed to TBP Plant
203	MW	54.5	54.5				
204	MW	54.5	54.5				

MW – METAL WASTE
IC – FIRST CYCLE WASTE
2C – SECOND CYCLE WASTE
R – REDOX WASTE
224 – 224 BLDG. WASTE
TBP – TBP WASTE
EB – EVAPORATOR BOTTOMS

(1) 288,000 gallons of metal waste calculated as removed through blend batch [illegible] #1032
(2) 1,651,000 gals. calculated as removed through batch #CR-1212

[redacted]

H-2902, 8-M (3-53)

RPP-13300, Rev. 0

[redacted] HW 27775

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. 10 BATCHES	REMARKS
BX FARM							
101	MW	530	530				
102	MW	530	467		63	23	
103	MW	530	530				
104	MW	530	530				
105	MW	530	530				
106	MW	530	530				
107	IC-TBP	530	437-0	407	93	TBP	
108	IC-TBP	530	10-0	10	509	TBP	
109	IC-TBP	530	34-496	34	—		
110	IC	530	530	133			
111	IC	530	525	0			
112	IC	530	530	234			
BY FARM							
101	MW	758	758				
102	BIW	758	758				
103	MW	758	664		83	33	
104	BIW	758	758				
105	MW	758	491		267	99	
106	BIW	758	0		747	277	
107	IC-TBP	758	1-742	1	15	TBP	Cascade 209-BX-107-BY abandoned 3/25/53.
108	IC	758	753	0			
109	TBP	758	448	—	310	Supernat	from 103-B on 3/8/53
110	SUPERNATE IC	758	732	0	21	8	
111	BIW	758	759		0		Receives high waste from
112	MW	758	389		369	132	TBP into temp. storage
T FARM							
101	MW	530	530				
102	MW	530	530				
103	MW	530	510				
104	I-C	530	530	377			
105	I-C	530	530	149			
106	I-C	530	528	10			
107	I-C-TBP	530	245-291	201			
108	I-C-TBP	530	73-458	21			
109	I-C-TBP	530	4-520	0			

[redacted]

A-143

RPP-13300, Rev. 0

[redacted]

HW 27775

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS x 10^{-3} CAPACITY	STORAGE TOTAL	STORAGE *SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN RANCHES	REMARKS
T FARM							
110 S-6	224 2C	530	530	538			to 3 tanks cascade/ crib
111 S-6	224 2C	530	530	191			
112 S-6	224 2C	569	560	28			
201	224	54.5	54.5	58.5			
202	224	58.5	54.5	54.5			
203	224	54.5	54.5	58.5			
204	224	54.5	52.5	54.8			
U FARM							
101	MW	530					Cascades 101-106 now serving as feed tnks. to TBP Plant.
102	MW	530					
103	MW	530					
104	MW	530	600.		2558		
105	MW	530					
106	MW	530					
107	MW	530	530				
108	MW	530	530				
109	MW	580	519				
110	I C	580	336	336	104	47	3 tanks being held as
111	I C	530	[illegible]	18	518	[illegible]	Redox Waste Reserve.
112	I C	580	32	34	498	220	
201	R	54.5			52.5	13	Held
202	R	58.5			54.5	13	
203	R	54.5			54.5	13	Redox
204	R	54.5			54.5	13	Reserve

** See Bottom of Page H-2002-11-M

TX FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758	758				
104	MW	758	750				
105	MW	758	766				
106	MW	758	723		23[illegible]	57	T Plant active MW Tnk.
107	MW	758	755				
108	MW	758	751				
109	I C	758	758	419			
110	I C	758	632	[illegible]	126	46	T Plant active IC Tnk.
111	I C	758			758	271	
112	I C	758			758	266	112 TX no longer held for Recuplex.

(1) 2,558,000 Gals. of metal waste calculated as removed from Tanks 101-106 Since TBP Startup thru 241-UR blend batch #1338.

[redacted]

H-2002.10-M (3-53)

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
TX FARM (CONT'D.)							
113	EB	758	748	252	10	EB	
114	MW	758	665	4	81	30	
115	TBP	758	733	0	25	Super-nate.	
116	SUPERNATE EB	758	662	---	96	EB	Active bottoms Tank-2W Evap.
117	EB	758	1	---	757	EB	
118	1 C	758	638	---	70	25	200West -Evap. Feed Tank
TY FARM							
101	R	758			758	TBP	Cascade no longer allocated
102	R	758			747	TBP	to Redox-Transf. to TBP acct.
103	TBP	758			758	TBP	
104	TBP	758			747	TBP	
105	TBP	758	254		504	TBP	
106	TBP	758			747	TBP	
S FARM							
101	R	758			758	183**	
102	R	758			758	183	
103	R	758			747	180	
104	R	758	741		17	4	Cascade receives-Saltwaste,
105	R	758			758	183	Lab. waste; coating waste
106	R	758			747	180	and hot condensates.
107	R	758	763				Cascade receives centrifuge
108	R	758	760				cake waste as of 2/9/53.
109	R	758	582		176	39	(See Note 1)
110	R	758	773				
111	R	758	755				
112	R	758	442		305	73	

MW - METAL WASTE
1 C - FIRST CYCLE WASTE
2 C - SECOND CYCLE WASTE
R - REDOX WASTE
224 & 224 BLDG. WASTE
TBP - TBP WASTE
EB - EVAPORATOR BOTTOMS

** Based on Plant performance of 4150 gallons per ton of processed Uranium.
(1) Centrifuge cake waste in the amount of 340 gallons was sent to Cascade 107-109-S during the month.

RPP-13300, Rev. 0

[redacted]

HW-28043

RECORD CENTER FILE

[redacted]

Copy #1. JS Malder
2. RS Bell
3. VR Chapman
4. VR Cooper
5. GF Hill
6. WK Mobley
7. VD Donihee
8. CP Cabell
9. EA Fockett
10. CT Groswith
11. JJ Courtney
12. D. McDonald
13. JT Christy
14. GK Carpenter
15-19. Extra
20. 700 File
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COPY 1 OF 1, SERIES A

CLASSIFICATION CANCELLED OR CHANGED TO Declassified BY AUTHORITY OF A.E. Barber DATE 5-10-82 BY Leon Jenke 2-11-92 J Gillespie 2-11-92

SEPARATIONS SECTION

WASTE STATUS SUMMARY

April 30, 1953

By

G K Carpenter

PLANNING AND SCHEDULING

SEPARATIONS -- OPERATIONS

RECEIVED

300 AREA CLASSIFIED FILES

[redacted]

A-146

RPP-13300/Rev.0

[redacted]

HW-28042

PERFORMANCE FOR MONTH ENDING APRIL 30, 1958

TYPE OF WASTE	RUNS OF THIS TYPE TO STGE.	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
Metal	13	0	44,000	3,385 (1)
1st. Cycle	12	0	30,250	2,521
2nd. Cycle & 224	13	249,580	6,890	11,500

SLUDGE INCREASE

	PRODUCTION OF THIS TYPE WASTE	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
REDOX	132.1	699,000	458,030	3,467 (2)
TBP	194.62	4,200,000	813,812	4,182

RATIO OF 0.996 TO THEORETICAL 4200 GALS. PER TON

EVAPORATOR	SUPERNATANT	FEED BOTTOMS	TOTAL	BOTTOMS MADE	CONDENSATE TO CRIBS	% VOLUME REDUCTION
EAST	0	353,000	353,000	277,000	76,000	21.5
WEST	0	536,000	536,000	420,000	116,000	21.6

REMARKS:

(1) This value is high due to the processing of low MWD Material.

(2) This value is lower than normal partly due to lowered 3DS rate.

[redacted]

A-147

RPP-13300, Rev. 0

[redacted]

HW - 28043

OVERALL STATUS AND RESERVE FOR MONTH ENDING APRIL 30, 1992

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	BATCHES RESERVE	GALLONS TOTAL
Metal	West	10,848,000	181,000	67 (1)	11,029,000
	East	10,322,500	1,429,000	523 (1)	11,751,500
First Cycle	West	3,720,000	1,599,000	571 (2)	5,319,000
	East	4,283,000	16,000	6 (2)	4,299,000
First Cycle Bottoms	West	1,972,000	1,038,000		3,010,000
	East	2,450,000	708,000		3,158,000
First Cycle & 224 Sludge	West	1,015,000	832,000	1570 (3)	1,847,000
	East	632,000	1,188,000	2242 (3)	1,820,000
REDOX		5,256,000	3,796,000	915 (4)	9,052,000
TBP	West	1,521,000	4,263,000	1027 (5)	5,784,000
	East	3,867,000	429,000	103 (5)	4,296,000
Unavailable Free Space			7,400,500		7,400,500
TOTAL		45,886,500	22,879,500		68,766,000

TOTAL OF ALL TANKS

(1) At 2700 Gals. of Metal Waste per run processed.

(2) At 2800 Gals. of First Cycle Waste per run processed.

(3) At 530 Gals. of Second Cycle and 224 Sludge per run processed.

(4) At 4150 Gals. of Waste per ton processed.

(5) At 4200 Gals. of Waste per ton processed.

REMARKS:

A-148

[redacted]

[redacted]

STATUS OF WASTE FARMS

	Type of Waste	Gallons x 10^3 Capacity	Storage Total	Storage Sludge	Reserve Cap. 1000 Gal.	Reserve Cap. In Batches	Remarks
B Farm							
101	MW	530	46	46	484 (U)		Approx. 2' exposed sludge
102	MW	530	280		250 (U)		
103	MW	530 (519)	7		512 (U)		
104	EB	530	523	302	7	EB	
105	EB	530	491	32	39	EB	
106	EB	530 (519)	219	0	306	EB	200-E Evap. Feed Tank
107	EB	530	521	220	9	EB	
108	EB	530	525	34	5	EB	
109	EB	530 (519)	177	0	342	EB	Active Bottoms Tank
110-1C-2C-	9-6	530	590		)1188		Receives B Plant Flushes
111 1C-2C-	9-6	530	530	434	) for	2,242	of 1-C, 2-C, 224 and Cell
112 1C-2C-	9-6	542	542		)Sludge		Flushes.
201 MW	224	54.5	54.5				
202 MW	224	54.5	54.5				
203 MW	224	54.5	54.5				
204 MW	224	54.5	54.5				
C Farm							
101	MW	530	10	10	520 (U)		Less than 1' of exposed sludge.
102	MW	530	53		477 (U)		
103	MW	530 (519)	280		339 (U)		
104	MW	530	530				
105	MW	530	530				
106	MW	530 (519)	368		151 (U)		Supernatant Supply
107	1C-TBP	530	399-419	399	11	TBP	Overflow to 108-C Plugged.
108	1C-TBP	530	34-293	34			
109	1C-TBP	530 (521)	10-511	10			
110	1C-TBP	530 (535)	231-307	231			Overflow to 111-C. Plugged.
111	1C-TBP	530 (535)	36-500	36			
112	1C-TBP	530 (519)	17-500	17	2	TBP	
201	MW	54.5	54.5				
202	MW	54.5	8		46.5 (U)		
203	MW	54.5	54.5				
204	MW	54.5	54.5				

MW – METAL WASTE
1C – FIRST CYCLE WASTE
2C – SECOND CYCLE WASTE
R – REDOX WASTE
(U) – Unavailable Free Space.

224 – 224 BLDG. WASTE
TBP – TBP WASTE
EB – EVAPORATOR BOTTOMS

[redacted]

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
BX FARM							
101	MW	530	530				
102	MW	530	457		63	23	
103	MW	530	530				
100	[illegible]	530	530				
101	MW	530	530				
104	MW	530	530				
107	IC-TBP	530	437-93	237			
108	IC-TBP	530	20-208	10	412	TBP	
109	IC-TBP	530 (524)	34-490	34			
110	IC	530	530	133			
111	IC	530	530	0			
112	IC	530	530	239			
BY FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758 (747)	664		83 (U)		
104	MW	758	758				
105	MW	758	495		263	97	
106	MW	758 (747)	0		747	276	
107	IC-TBP	758 (747)	1-742	1	4	TBP	Cascade 109-BY -107-BY abandoned 3/25/53
108	IC	758 (753)	753	0			
109	MW	758 (747)	448		299 (U)		Supernatent
110	SUPERNATE IC	758 (747)	731		16	6	
111	MW	758	758				Rec'd 6,000 Gals. of X-2
112	MW	758 (747)	391		356	132	material which cascaded to 112-BY.
T FARM							
101	MW	530	530				
102	MW	530	530				
103	MW	530 (5[illegible])	519				
104	I-C	532	[illegible]	377			
105	I-C	530	530	140			
106	I-C	530 (528)	526	10			
107	I-C-TBP	530 (536)	246-292	221			
108	I-C-TBP	530 (531)	73-458	21			
109	I-C-TBP	530 (524)	4-520	0			

(U) - Unavailable Free Space

[redacted]

RPP-13300, Rev. 0

HW-28043

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
T FARM							
110 S-6	224 2 C	530	530	530			3 Tanks cascade to crib
111 S-6	224 2 C	530	530	233	297	560	
112 S-6	224 2 C	565	559	34	535	1010	
201	224	54.5	54.5	54.5			
202	224	54.5	54.5	54.5			
203	224	54.5	54.5	54.5			
204	224	54.5	54.5	54.5			
	For Sludge						
U FARM							
101	MW	530	20		510(U)		
102	MW	530	100		430(U)		
103	MW	530 (519)	146		373(U)		
104	MW	530	96		434(U)		
105	MW	530	530				
106	MW	530 (519)	366		153(U)		
107	MW	530	530				
108	MW	530	530				
109	MW	530 (519)	296		223(U)		Supernatant Supply
110	I C	530	337	336	193(U)		
111	I C	530	17	14	513(U)		
112	I C	530 (519)	34	32	485(U)		
201	R	54.5	0		54.5(U)		
202	R	54.5	0		54.5(U)		
203	R	54.5	0		54.5(U)		
204	R	54.5	0		54.5(U)		
TX FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758	758				
104	MW	758 (750)	750				
105	MW	758	758				
106	MW	758	577		181	67	1 Plant active 1/2 Tank
107	MW	758	758				
108	MW	758 (751)	751				
109	I C	758	758	415			
110	I C	758	664	9	94	34	
111	I C	758	0		758	271	
112	I C	758 (747)	0		747	267	

(U) Unavailable Free Space

[redacted]

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. *1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
TX FARM (CONT'D.)							
113	EB	758 (747)	703	290	44	EB	
114	MW	758 (747)	665		81 (U)		
115	MW	758 (747)	621		625 U		Supernatant
116	SUPERNATE EB	758	758		0		Filled 4/5/53
117	EB	758	324		434	EB	Started Filling 4/6/53
118	EB	758 (747)	187		560	EB	200-W Evap. Feed Tank
TY FARM							
101	TBP	758	0		758	TBP	
102	TBP	758 (747)	0		747	TBP	
103	TBP	758	0		758	TBP	
104	TBP	758 (747)	0		747	TBP	
105	TBP	758	252		506	TBP	
106	TBP	758 (747)	0		747	TBP	
S FARM							
101	R	758	0		758	183	
102	R	758	0		758	183	
103	R	758 (747)	0		747	180	
104	R	758	758		0		Cascade receives Salt Waste.
105	R	758	442		316	76	Leb. Waste, Coating Waste
106	R	758 (747)	0		747	180	and hot Condensate.
107	R	758	758		0		Cascade receives centrifuge
108	R	758	758		0		Cake Waste as of 2/3/53.
109	R	758 (747)	582		165	40	(See Note 19.
110	R	758	758		0		
111	R	758	758		0		
112	R	758 (747)	442		305	73	

* MW - METAL WASTE
1 C - FIRST CYCLE WASTE
2 C - SECOND CYCLE WASTE
R - REDOX WASTE
224 - 225 BLDG. WASTE
TBP - TOP WASTE
EB - EVAPORATOR BOTTOMS

(U) - Unavailable Free Space.
(19) - 721 Gallons of centrifuge cake waste was sent to 107-109 S Cascade during the month.

[redacted]

Rpp-13300, Rev. 0

[redacted]

HW-28377

Copy #1. JE Maider
2. RS Bell
3. VP. Chapman
4. TR Cooper
5. OF Hill
6. WN Mobley
7. VD Donihee
8. CP Cabell
9. EA Foskett
10. CT Groswith
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15-19. Extra
20. 700 File
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SEPARATIONS SECTION

WASTE-STATUS SUMMARY

MAY 31, 1953

By

G. K. Carpenter

PLANNING AND SCHEDULING

SEPARATIONS - OPERATIONS

[redacted]

A-153

RPP-13300, Rev. 0

[redacted]

PERFORMANCE FOR MONTH ENDING MAY 31, 1953

TYPE OF WASTE	RUNS OF THIS TYPE TO STGE.	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
Metal	15	0	59,125	3942 (2)
1st Cycle	16	0	46,750	2922
2nd Cycle & 224	16	156,604	8,480 *	--

* SLUDGE INCREASE

	PRODUCTION OF THIS TYPE WASTE	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
Redox	118.5	892.907 (1)	444.000	3,747
TBP	217.6	4,270,000	1,055,000	4,770 **

** RATIO OF 1.15 TO THEORETICAL 5200 GALS. PER TON

EVAPORATOR	FEED			BOTTOMS MADE	CONDENSATE TO CRIBS	% VOLUME REDUCTION
	SUPERNATANT	BOTTOMS	TOTAL			
EAST	0	485,375	485,375	344,438	140,937	29.04
WEST	0	352,000	352,000	240,625	111,375	31.6

REMARKS: (1) D-2 condensate waste to cribs increased by 2250 gals/ton due to routing D-12 waste concentrator pot coil condensate through the D-4 condensate evaporator.

(2) This value is high due to the processing of low MAD material.

[redacted]

RPP-13300, Rev. 0

[redacted]

OVERALL STATUS AND TRENDS FOR MONTH ENDING MAY [illegible]

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	GATORES RESERVE		GALLONS TOTAL
Metal	West	10,572,000	652,000	241	(1)	11,224,000
	East	9,935,500	748,000	277	(1)	10,683,500
First Cycle	West	3,767,000	1,552,000	554	(2)	5,319,000
	East	4,288,000	16,000	6	(2)	4,304,000
First Cycle Bottoms	West	1,861,000	1,149,000			3,010,000
	East	2,376,000	782,000			3,158,000
Second Cycle and 224 Sludge	West	1,018,000	829,000	1,564	(3)	1,847,000
	East	632,000	1,188,000	2,242	(3)	1,820,000
Redox		5,700,000	3,352,000	808	(4)	9,052,000
TEP	West	1,521,000	4,263,000	1,027	(5)	5,784,000
	East	4,922,000	668,000	156	(5)	5,590,000
Unavailable Free Space			6,996,500			6,996,500
TOTAL		46,592,500	22,195,500			68,788,000 *

* TOTAL OF ALL TANKS:

(1) At 2700 Gals. of Metal Waste per run processed.

(2) At 2800 Gals. of First Cycle Waste per run processed.

(3) At 530 Gals. of Second Cycle and 224 Sludge per run processed.

(4) At 4150 Gals. of Waste per ton processed.

(5) At 4200 Gals. of Waste per ton processed.

REMARKS:

[redacted]

RFP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

101	MW	530	12		518 (U)		MW removal
102	MW	530	194		336 (U)		in
103	MW	530 (519)	46		473 (U)		progress
104	EB	530	354	300	176	EB	
105	EB	530	503	39	27	EB	
106	EB	530 (519)	249	0	270	EB	200-E Evap. Feed Tank
107	EB	530	224	220	306	EB	Receiving Re-evap. Bottoms
108	EB	530	530	34		EB	Re-evaporated Bottoms
109	EB	530 (519)	516	0	3	EB	Re-evaporated Bottoms
110-1C-2C-	S-4	530	530		1188		Receives B Plant Flushes
111 1C-2C-	S-4	530	530	414	for	2242	of 1C, 2C, 224 and cell
112 1C-2C-	S-4	542	542		sludge		flushes
201 MW	224	54.5		54.5			
202 MW	224	54.5		54.5			
203 MW	224	54.5		54.5			
204 MW	224	54.5		54.5			
C FARM							
101	TBP	530	389		141	TBP	MW removal completed 5-14 Start - TBP waste 5-15
102	MW	530	46		484 (U)		MW removal
103	MW	530 (519)	10		509 (U)		in progress
104	MW	530	530				
105	MW	530	530				
106	MW	530 (519)	234		285 (U)		Supernatant supply
107	1C-TBP	530	399-120	300	11	TBP	Overflow to 108-C plugged
108	1C-TBP	530	34-496	3.			
109	1C-TBP	530 (521)	10-511	13			
110	1C-TBP	530 (538)	231-307	231			Overflow to 111-C plugged
111	1C-TBP	530 (536)	35-500	34			
112	1C-TBP	530 (519)	17-500	15	2	TBP	
201	MW	54.5	54.5				
202	MW	54.5	8		46.5 (U)		
203	MW	54.5	54.5				
204	MW	54.5	54.5				

MW - METAL WASTE
1C - 1 CYCLE WASTE
2C - SECOND CYCLE WASTE
W - WINDOW WASTE
224 - 224 REDOX WASTE
TBP - TBP WASTE
EB - EVAPORATOR BOTTOMS
U - Unavailable Tank Space

[redacted]

A-156

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	100K GAL.	IN BATCHES	REMARKS
BY FARM							
101	MW	530	505		25	9	Removing supernatant
102	MW	530	417		113	42	
103	MW	530	530				
104	MW	530	530				
105	MW	530	530				
106	MW	530	530				
107	IC-TBP	530	437-93	437			
108	IC-TBP	530	10-520	10			
109	IC-TBP	530	34-496	34			
110	IC	530	530	133			
111	IC	530	530	0			
112	IC	530	530	239			
BY FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758(747)	745		2 (U)		
104	MW	758	758				
105	MW	758	495		263	97	
106	IC	758	758				Rec'd from IC8-BY, 5-24
107	IC-TBP	758	1-757	1			for temporary storage prior to cribbing.
108	TBP	758(747)	233	0	514	TBP	Receiving TBP Waste
109	IC	758(747)	448		299 (U)		Supernatant
110	SUPERNATE IC	758(747)	731	0	16	6	
111	MW	758	758				Receives miscellaneous
112	MW	758(747)	400		347	129	wastes from TBP and
T FARM							Hot Semi Works
101	MW	530	530				
102	MW	530	530				
103	MW	530(519)	519				
104	I-C	530	530	377			
105	I-C	530	530	144			
106	I-C	530(528)	528	10			
107	I-C-TBP	530(536)	245-291	291			
108	I-C-TBP	530(531)	73-458	21			
109	I-C-TBP	530(524)	4-520	0			

[redacted]

H-2707.9-M (3-91)

A-157

RPP-13300, Rev. 0

HW-22377

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS x 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
T FARM							
110 S-6	224 2C	530	530	530			3 Tanks cascade to crib
111 S-6	224 2C	530	539	235	295 *	557	
112 S-6	224 2C	569	569	35	534 *	1008	
201	224	54.5	54.5	54.5			
202	224	54.5	54.5	54.5			
203	224	54.5	54.5	54.5			
204	224	54.5	54.5	54.5			

* For Sludge

U FARM							
101	MW	530	0		530	196	Released for T Plant Metal Waste
102	MW	530	73		457 (U)		
103	MW	530(519)	146		373 (U)		
104	MW	530	35		495 (U)		
105	MW	530	530				
106	MW	530(519)	329		190 (U)		
107	MW	530	530				
108	MW	530	530				
109	MW	530(519)	139		380 (U)		Supernatant supply
110	I C	530	337	336	193 (U)		
111	I C	530	17	14	513 (U)		
112	I C	530(519)	34	32	485 (U)		
201	R	54.5	0		54.5 (U)		
202	R	54.5	0		54.5 (U)		
203	R	54.5	0		54.5 (U)		
204	R	54.5	0		54.5 (U)		
TX FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758	758				
104	MW	758 (750)	750				
105	MW	758	758				
106	MW	758	636		122	45	T Plant Active MW Tank
107	MW	758	758				
108	MW	758 (751)	751				
109	I C	758	758	415			T Plant Active -
110	I C	758	711	*	47	17	First Cycle -
111	I C	758	0		758	271	Waste -
112	I C	758 (747)	0		747	267	Cascade

[redacted]

H-2902, 10-M (3-53)

A-158

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE*	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
TX FARM (CONT'D.)							
113	EB	758 (747)	290	252	457	EB	EB and First Cycle Sludge
114	MW	758 (747)	666	4	81 (U)		
115	MW	758 (747)	83	0	659 (U)		Supernatant
116	SUPERNATE EB	758	758		0	EB	Re-evaporated Bottoms
117	EB	758	565		193	EB	Receiving Re-evap. Bottoms
118	EB	758 (747)	248		499	EB	200-W Evap. Feed Tank
TY FARM							
101	TBP	758	0		758	TBP	
102	TBP	758 (747)	0		747	TBP	
103	TBP	758	0		758	TBP	
104	TBP	758 (747)	0		747	TBP	
105	TBP	758	252		506	TBP	
106	TBP	758 (747)	0		747	TBP	
S FARM							
101	R	758	0		758	183	
102	R	758	0		758	183	
103	R	758 (747)	0		747	180	
104	R	758	758		0		Cascade receives – salt water,
105	R	758	758		0		lab. waste, coating waste
106	R	758 (747)	125		622	150	and hot condensate
107	R	758	758		0		Cascade receives – centrifuge
108	R	758	758		0		cake waste
109	R	758 (747)	585		162	39	
110	R	758	758		0		
111	R	758	758		0		
112	R	758 (747)	442		305	73	

* MW – METAL WASTE
1 C – FIRST CYCLE WASTE
2 C – SECOND CYCLE WASTE
R – REDOX WASTE
224 – 224 BLDG. WASTE
TBP – TBP WASTE
EB – EVAPORATOR BOTTOMS
U – Unavailable Free Space

[redacted]

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DOCUMENT NO. HW-28712

DATE	COPY NO.	SERIES
6-30-53	20	

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SUBJECT OR TITLE

Separations Section, Waste - Status Summary

June 30, 1953

TO

VR Chapman

FROM

D McDonald - By GK Carpenter

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C-704-DB (2-52)

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A-160

RPP-13300, Rev. 0

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HW-28[illegible]2

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6-30-53

SEPARATIONS SECTION

COPY 1 OF 1, SERIES MA

WASTE – STATUS SUMMARY

BY

G. K. CARPENTER

PLANNING AND SCHEDULING

SEPARATIONS – OPERATIONS

[redacted]

[redacted]

A-161

RPP-13300, Rev. 0

[redacted]

HW-28712

PERFORMANCE FOR MONTH ENDING June 30, 19 53.

TYPE OF WASTE	RUNS OF THIS TYPE TO STGE.	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
METAL	39	0	137,111	3,516 (1)
1 ST CYCLE	39	0	96,405	2,472
2 ND CYCLE & 224	39	224,700	20,670	-

* SLUDGE INCREASE

	PRODUCTION OF THIS TYPE WASTE	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
REDOX	102.9	583,706 (2)	301,000	2,925 (2)
TBP	255.2	5,190,000	1,143,000	4,475 **

** RATIO OF _____ TO THEORETICAL 4200 GALS. PER TON

EVAPORATOR	FEED			BOTTOMS MADE	CONDENSATE TO CRIBS	% VOLUME REDUCTION
	SUPERNATANT	BOTTOMS	TOTAL			
EAST	0	509,438	509,438	298,381	211,057	41.4
WEST (3)	0	204,875	204,875	92,813	112,062	54.6

REMARKS:

(1) This value is high due to processing low MWD material.

(2) These values have been reduced due to two cycle uranium operation.

(3) Completed evaporation of bottoms on 6-20-53. Started pumping TBP waste from 109-T to 118-TX on 6-30-53 in preparation for evaporation

[redacted]

A-162

RPP-13300, Rev. 0

[redacted]

HW- 33712

OVERALL STATUS AND RESERVE FOR MONTH ENDING June 30, 1953.

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	BATCHES RESERVE	GALLONS TOTAL
METAL	WEST	9,882,000	509,000	188 (1)	10,391,000
	EAST	9,760,500	610,000	226 (1)	10,370,500
FIRST CYCLE	WEST	3,864,000	1,455,000	520 (2)	5,319,000
	EAST	4,288,000	16,000	6 (2)	4,304,000
FIRST CYCLE BOTTOMS	WEST	1,748,000	1,262,000		3,010,000
	EAST	2,164,000	994,000		3,158,000
SECOND CYCLE & 224 SLUDGE	WEST	1,847,000	0	1,525 (3)	1,847,000
	EAST	1,602,000	0	2,242 (3)	1,602,000
REDOX		6,001,000	3,051,000	735 (4)	9,052,000
TBP	WEST	2,177,000	3,607,000	859 (5)	5,784,000
	EAST	5,409,000	181,000	43 (5)	5,590,000
UNAVAILABLE FREE SPACE			8,360,500		8,360,500
TOTAL		48,742,500	20,045,500		68,788,000

* TOTAL OF ALL TANKS:

(1) AT 2700 GALS. OF METAL WASTE PER RUN PROCESSED.
(2) AT 2800 GALS. OF FIRST CYCLE WASTE PER RUN PROCESSED.
(3) AT 530 GALS. OF SECOND CYCLE AND 224 SLUDGE PER RUN PROCESSED.
(4) AT 4150 GALS. OF WASTE PER TON PROCESSED.
(5) AT 4200 GALS. OF WASTE PER TON PROCESSED.

REMARKS:

[redacted]

A-163

RPP-13300, Rev. 0

[redacted]ON

STATUS OF WASTE FARMS

	TYPE OF WASTE*	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
B FARM							
101	MW	530			531 (U)		Small sludge heel. Less than 1" of water.
102	MW	530			530 (U)		Small sludge heel. No liquid
103	MW	530 (519)	355		160 (U)		Supernatant
104	EB	530	234	303	276	EB	
105	EB	530	28	39	502	EB	
106	EB	530 (519)	223	0	305	EB	200-E Evaporator Feed Tank
107	EB	530	523	220	7	EB	Re-evaporated Bottoms
108	EB	530	530	34		EB	Re-evaporated bottoms
109	EB	530 (519)	510	0	9	EB	Re-evaporated bottoms
110-1C-2C-	S-6	530	530		1128		Receives B Plant Flushes
111 1C-2C-	S-6	530	530	224	102	2222	of 1C, 2C, 224 and cell
112 1C-2C-	S-6	542	542		sludge		flushes.
201 MW	224	54.5		54.5			
202 MW	224	54.5		54.5			
203 MW	224	54.5		54.5			
204 MW	224	54.5		54.5			
C FARM							
101	TBP	530	422		108	TBP	
102	MW	530			530 (U)		Small sludge heel
103	MW	530 (519)	45		474 (U)		
104	MW	530	530				
105	MW	530	530				
106	MW	530 (519)	76		443 (U)		Supernatant supply
107	1C-TBP	530	399-120	399	11	TBP	Overflow to 103-C plugged.
108	1C-TBP	530	34-496	34			
109	1C-TBP	530 (521)	10-511	10			
110	1C-TBP	530 (536)	231-307	231			Overflow to 111-C plugged.
111	1C-TBP	530 (536)	36-500	36			
112	1C-TBP	530 (519)	17-500	15	2	TBP	
201	MW	54.5	54.5				
202	MW	54.5	8		46.5 (U)		
203	MW	54.5	54.5				
204	MW	54.5	54.5				

* MW – METAL WASTE
1C – FIRST CYCLE WASTE
2C – SECOND CYCLE WASTE
R – REDOX WASTE
224 – 224 BLDG. WASTE
TBP–TBP WASTE
EB – EVAPORATOR BOTTOMS
(U) – UNAVAILABLE FREE SPACE

[redacted]

W-2902, 8-M (8-33)

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
BX FARM							
101	MW	530	[illegible]		[illegible] (U)		MW removal in
102	MW	530	[illegible]		[illegible] (U)		progress
103	MW	530	[illegible]				
104	MW	530	[illegible]				
105	MW	530	[illegible]				
106	MW	530	[illegible]				
107	IC-TBP	530	[illegible]-93	437			
108	IC-TBP	530	[illegible]-520	10			
109	IC-TBP	530 (524)	[illegible]	34			
110	IC	530	530	133			
111	IC	530	[illegible]	0			
112	IC	530	[illegible]	239			
BY FARM							
101	MW	758	752				
102	MW	758	[illegible]				
103	MW	758 (747)	745		2 (U)		
104	MW	758	752				
105	MW	758	[illegible]		253	97	
106	IC	758 X	758				
107	IC-TBP	758 X	[illegible]-757	1			
108	TBP	758 (747)	667	0	60	TBP	
109	MW	758 (747)	[illegible]		[illegible] (U)		Supernatant
110	SUPERNATE IC	758 (747)	731	0	16	6	
111	MW	758	752				Receives miscellaneous
112	MW	758 (747)	[illegible]		347	129	Wastes from TBP & not
T FARM							semi-works.
101	MW	530	360		361 (U)		Metal waste
102	MW	530	[illegible]		[illegible] (U)		removal in
103	MW	530 (519)	[illegible]		200 (U)		progress
104	I-C	530	530	377			
105	I-C	530	530	149			
106	I-C	530 (528)	528	10			
107	I-C-TBP	530 (536)	[illegible]-292	201			
108	I-C-TBP	530 (531)	73-[illegible]	21			
109	I-C-TBP	530 (524)	[illegible]-520	0			

[redacted]

M-2902.9-M (6-93)

A-165

RPP-13300, Rev. 0

[redacted] HW- 28712

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
T FARM							
110 S-6	224-2C	530	530	530			
111 S-6	224-2C	530	530	226	284 *	536	3 tank cascade to crib
112 S-6	224-2C	569	569	45	522 *	989	
201	224	54.5	54.5	54.5			
202	224	54.5	54.5	54.5			
203	224	54.5	54.5	54.5			
204	224	54.5	54.5	54.5			
* FOR SLUDGE							
U FARM							T Plant active MW tank started filling 6-2-53
101	MW	530	226		384	242.	
102	MW	530	45		485 (U)		MW removal
103	MW	530 (519)	227		372 (U)		in progress
104	MW	530	0		530 (U)		
105	MW	530	111		419 (U)		MW removal
106	MW	530 (519)	288		231 (U)		in progess
107	MW	530	530				
108	MW	530	338		192 (U)		Supernatant supply
109	MW	530 (519)	276		243 (U)		Supernatant supply
110	1 C	530	337	336	193 (U)		
111	1 C	530	17	14	513 (U)		
112	1 C	530 (519)	32	32	485 (U)		
201	R	54.5	0		54.5 (U)		
202	R	54.5	0		54.5 (U)		
203	R	54.5	0		54.5 (U)		
204	R	54.5	0		54.5 (U)		
TX FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758	758				
104	MW	758 (750)	750				
105	MW	758	758				
106	MW	758	633		125	46	
107	MW	758	758				
108	MW	758 (751)	751				
109	1 C	758	758	415			T Plant active
110	1 C	758	758	9			first cycle
111	1 C	758	50		708	253	waste
112	1 C	758 (747)	0		747	267	cascade

[redacted]

RPP-13300, Rev. 0

[redacted] HW-28712

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS			RESERVE CAP.		REMARKS
		CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	1000 GAL.	IN BATCHES	
TX FAR (CONT'D.)							
113	EB	758 (747)	240	252	450	EB	EB and first cycle sludge
114	MW	758 (747)	666	4	91 (U)		
115	MW	758 (747)	[illegible]	0	260 (U)		Supernatant
116	SUPERNATE EB	759	758		0	EB	Re-evaporated bottoms
117	EB	758	653		105	EB	Re-evaporated bottoms
118	EB	758 (747)	27		700	EB	200-W Evaporator feed tank
TY FARM							
101	TBP	758	0		758	TBP	
102	TBP	758 (747)	0		747	TBP	
103	TBP	758	0		758	TBP	
104	TBP	758 (747)	0		747	TBP	
105	TBP	758	758		0		
106	TBP	759 (747)	150		597	TBP	
S FARM							
101	R	758	0		758	183	
102	R	758	0		758	183	
103	R	758 (747)	0		747	180	
104	R	758	758		0		Cascade receives - salt
105	R	758	758		0		waste, lab. waste, coating
106	R	758 (747)	426		321	77	waste and hot condensate
107	R	758	758		0		Cascade receives
108	R	758	758		0		centrifuge
109	R	758 (747)	585		162	39	cake waste
110	R	758	758		0		
111	R	759	758		0		
112	R	758 (747)	410		305	73	

* MW - METAL WASTE
1 C - FIRST CYCLE WASTE
2 C - SECOND CYCLE WASTE
R - REDOX WASTE

224 - 224 BLDG. WASTE
TBP - TBP WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE

[redacted]

H-2902, 11-M (6-53)
RICHLAND, WASH.

RPP-13300, Rev. 0

-1-

[redacted]

HW- 39051

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SEPARATIONS SECTION

WASTE – STATUS SUMMARY

BY

J. P. McBride

PLANNING AND SCHEDULING

SEPARATIONS – OPERATIONS

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300 AREA
CLASSIFIED FILES

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A-168

RPP-13300, Rev. 0

[redacted]

HW-29052

PERFORMANCE FOR MONTH ENDING July 31 19 53.

TYPE OF WASTE	RUNS OF THIS TYPE TO STGE.	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
METAL	22	0	78,375	3,563 (1)
1 ST CYCLE	20	0	46,813	2,325
2 ND CYCLE @ 200	21	177,000	11,000	-

SLUDGE INCREASE

	PRODUCTION OF THIS TYPE WASTE	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
REDOX	157.6	917,512	525,379	3,334
TBP	211.8	4,200,000	1,071,968	5,061

RATIO OF 1.21 TO THEORETICAL 4200 GALS. PER TON

EVAPORATOR	FEED			BOTTOMS MADE	CONDENSATE TO CRIBS	% VOLUME REDUCTION
	SUPERNATANT	BOTTOMS	TOTAL			
EAST	0	119,315	119,315	54,923	64,392	54.0
WEST	382,794 (2)	0	382,794	191,813	162,981	45.9

REMARKS:

(1) This value is high due to processing low MWD material.

(2) TBP waste.

[redacted]

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[redacted]

HW- 29052

[redacted]

OVERALL STATUS AND RESERVE FOR MONTH ENDING July 31 1953.

TYPE OF WASTE		GALLONS IN STORAGE AT END OF MONTH	GALLONS RESERVE	BATCHES RESERVE		GALLONS TOTAL
METAL	WEST	9,263,000	431,000	159	(1)	9,694,000
	EAST	9,726,500	610,000	226	(1)	10,336,500
FIRST CYCLE	WEST	3,912,000	1,407,000	903	(2)	5,319,000
	EAST	4,288,000	16,000	6	(2)	4,304,000
FIRST CYCLE BOTTOMS	WEST	2,114,000	896,000			3,010,000
	EAST	2,057,000	1,101,000			3,158,000
SECOND CYCLE & 224 SLUDGE	WEST	1,847,000	0	1,525	(3)	1,847,000
	EAST	1,602,000	0	2,242	(3)	1,602,000
HEDDO		6,527,000	2,525,000	605	(4)	9,052,000
TBP	WEST	3,244,000	2,540,000	605	(5)	5,784,000
	EAST	5,409,000	181,000	40	(5)	5,590,000
UNAVAILABLE FREE SPACE			9,191,500			9,191,500
TOTAL		49,889,500	18,893,500			68,783,000

TOTAL OF ALL TANKS

(1) AT 290 GALS. OF METAL WASTE PER RUN PROCESSED.
(2) AT 290 GALS. OF FIRST CYCLE WASTE PER RUN PROCESSED.
(3) AT 110 GALS. OF SECOND CYCLE AND 224 SLUDGE PER RUN PROCESSED
(4) AT 410 GALS. OF WASTE PER TON PROCESSED.
(5) AT 410 GALS. OF WASTE PER TON, ENTERED

REMARKS:

[redacted]

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[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS × 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP 1000 GAL.	RESERVE CAP IN BATCHES	REMAR
B FARM							
101	DDW	530	0		[illegible]		Small sludge l than 1" water.
102	MW	530	0		[illegible]		Small sludge l
103	MW	530 (519)	402		[illegible]		Supernatant
104	EB	530	242	100	170	EB	
105	EB	530	28	30	502	EB	
106	EB	530 (519)	96	0	423	EB	200E Evaporat
107	EB	530	530	220		EB	Re-evaporated
108	EB	530	530	30		EB	Re-evaporated
109	EB	530 (519)	519	0		EB	Re-evaporated
110-1C 2C-	S-6	530	530		1188		Received B Pl
111 1C-2C-	S-6	530	530	414	for	2242	of 1C,2C,224
112 1C-2C-	S-6	542	542		Sludge		flushes.
201 MW	224	54.5		54.5			
202 MW	224	54.5		54.5			
203 MW	224	54.5		54.5			
204 MW	224	54.5		54.5			
C FARM							
101	TBP	530	422		108	TBP	
102	DDW	530			530 (U)		
103	MW	530 (519)	45		474 (U)		Small sludge
104	MW	530	530				
105	MW	530	530				
106	MW	530 (519)	439		80 (U)		Supernatant
107	1C-TBP	530	399-131	399		TBP	Overflow to
108	1C-TBP	530	34-496	34			
109	1C-TBP	530 (519)	10-511	10			
110	1C-TBP	530 (530)	231-307	231			Overflow to
111	1C-TBP	530 (536)	34-500	34			
112	1C-TBP	530 (519)	19-500	19	2		
201	MW	54.5	54.5				
202	MW	54.5	8		465 (U)		
203	MW	54.5	[illegible]				
204	MW	54.5	[illegible]				

[illegible] - METAL WASTE
[illegible] - [illegible] SLUDGE WASTE
[illegible] - [illegible] SLUDGE WASTE
[illegible] - [illegible] WASTE

[illegible] - [illegible] SLUDGE WASTE
TBP - TBP WASTE
EB - EVAPORATOR BOTTOMS
U - UNKNOWN, [illegible] FREE SPACE

[redacted]

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. * 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
DC WANDS							
101	MW	530	120		350 (U)		MW removal in progress
102	MW	530	325		125 (U)		
103	MW	530	530				
104	MW	530	530				
105	MW	530	530				
106	MW	530	530				
107	IC-TBP	530	437-93	317			
108	IC-TBP	530	10-520	10			
109	IC-TBP	530 (520)	34-496	34			
110	IC	530	530	133			
111	IC	530	530	0			
112	IC	530	530	239			
BY FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758 (747)	745		2 (U)		
104	MW	758	758				
105	MW	758	495		263	97	
106	IC	758	758				
107	IC-TBP	759	1-751	1			
108	TBP	758 (747)	687	0	60		
109	[illegible]	758 (747)	74		673 (U)		
110	SUPERNATE IC	758 (747)	731	0	10	6	
111	MW	758	752				Receives misc. wastes fr
112	MW	758 (747)	100		347	120	TBP & Hot Semi-works
T FARM							
101	MW	530	[illegible]		530 (U)		Metal waste removal in
102	MW	530	[illegible]		83 (U)		progress
103	MW	530 (519)	[illegible]		[illegible] (U)		
104	I-C	530	[illegible]	[illegible]			
105	I-C	530	[illegible]	[illegible]			
106	I-C	530 (528)	[illegible]	[illegible]			
107	I-C-TBP	530 (528)	[illegible]	[illegible]			
108	I-C-TBP	530 (531)	[illegible]	[illegible]			
109	I-C-TBP	530 (524)	[illegible]	[illegible]			

[redacted]

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[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 10³ GAL.	RESERVE CAP. IN BATCHES	REMARKS
T FARM							
110 S-6	224 2C	530	530	530			
111 S-6	224-2C	530	530	252	278 ⊙	425	3 tank cascade to crib
112 S-6	224 2C	560	560	50	510 ⊙	900	
201	224	54.5	54.5	54.5			
202	224	54.5	54.5	54.5			
203	224	54.5	54.5	54.5			
204	224	54.5	54.5	54.5			

⊙ FOR SLUDGE

U FARM							
101	MW	530	224		306	113	T Plant Active MW Tank
102	MW	530	0		530 (U)		
103	MW	530 (510)	114		406 (U)		
104	MW	560	0		530 (U)		
105	MW	560	0		530 (U)		
106	MW	530 (510)	338		181 (U)		MW removal in progress
107	MW	530	145		385 (U)		
108	MW	530	442		88 (U)		Supernatant supply
109	MW	530 (510)	291		238 (U)		Supernatant supply
110	I C	560	237	336	193 (U)		
111	I C	530	17	14	513 (U)		
112	I C	560 (510)	34	32	485 (U)		
201	R	54.5	0		54.5 (U)		
202	R	54.5	0		54.5 (U)		
203	R	54.5	0		54.5 (U)		
204	R	54.5	0		54.5 (U)		

TX FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758	758				
104	MW	758 (750)*	750				
105	MW	758	758				
106	MW	758	633		125	45	
107	MW	758	758				
108	MW	758 (751)	751				
109	I C	758	758	415			T Plant active
110	I C	758	758				first cycle
111	I C	758	93		660	295	waste cascade.
112	I C	758 (747)	0		747	267	

[redacted]

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STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
TX FARM (CONT'D.)							
113	EB	758 (747)	505	252	343		EB
114	MW	758 (747)	606	-	82 (U)		
115	MW	758 (747)	487	0	260 (U)		Supernatant
116	SUPERNATE EB	758	758		0		Re-evaporated Bottoms
117	EB	758	758		0		Re-evaporated Bottoms
118	EB	758 (747)	194		553		200W Evaporator feed tank
TY FARM							
101	TBP	758	0		758	TBP	
102	TBP	758 (747)	0		747	TBP	
103	TBP	758	470		288	TBP	
104	TBP	758 (747)	0		747	TBP	
105	TBP	758	758				
106	TBP	758 (747)	747			TBP	
S FARM							
101	R	758	227		531	128	
102	R	758	0		758	183	
103	R	758 (747)	0		747	180	
104	R	758	758				
105	R	758	758				
106	R	758 (747)	725		22	5	
107	R	758	758				Cascade receiver
108	R	758	758				centrifuge
109	R	758 (747)	585		162	39	cake waste
110	R	758	758		0		Receiving coating
111	R	758	758		0		removal waste
112	R	758 (747)	442		305	73	

* MW - METAL WASTE
1 C - FIRST CYCLE WASTE
2 C - SECOND CYCLE WASTE
R - REDOX WASTE

224 - 224 BLDG. WASTE
TBP - TBP WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE

RPP-13300, Rev. 0

RECORD COPY FILE

HW- 29242

[redacted]

COPY NO. 1. JE MAIDER
2. RB BELL
3. VR CHAPMAN
4. VR COOPER
5. OF HILL
6. WN MOBLEY
7. VD DONIHEE
8. CP CABELL
9. FA FOSKETT
10. CT GROSWITH
11. JJ COURTNEY
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SEPARATIONS SECTION

WASTE — STATUS SUMMARY

BY

O. K. CARPENTER

PLANNING AND SCHEDULING

SEPARATIONS — OPERATIONS

[redacted]

RECEIVED

300 AREA
CLASSIFIED FILES

[redacted]

HW-29242, 14-M (7-53)

A-175.

RPP-13300, Rev. 0

[redacted]

HW- 29242

PERFORMANCE FOR MONTH ENDING August 31 19 53.

TYPE OF WASTE	RUNS OF THIS TYPE TO STGE.	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
REDOX	20	0	74,250	3,713 (1)
1 ST CYCLE	18	0	58,437	3,247 (2)
2 ND CYCLE & UP	18	155,391	- 123,000	-

SAUDICK DECREASE (Readings taken with a photoelectric sludge level indicator show a decrease in amount in storage due to compacting of sludge.)

	PRODUCTION OF THIS TYPE WASTE	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
REDOX	1250	2,049,963	407,000 (3)	3,253 (3)
PUREX	165.8 (4)	4,420,000	914,945	5,518

CONVERSION OF 1030 TO THEORETICAL 2000 GALS. PER TON

EVAPORATOR	FEED			BOTTOMS TO PUREX	CONDENSATE TO CRIBS	% VOLUME REDUCTION
	SUPERNATANT	BOTTOMS	TOTAL			
EAST	0	0	0	0	0	-
WEST	522,237 (5)	0	522,237	245,306	276,931	53.0

REMARKS:

(1) This value is high due to processing low PU material.
(2) This value is high due to four re-works and an acid wash.
(3) These values reflect the effect of self-evaporation in the 104-S tank which amounted to 53,000 gallons evaporated during the month.
(4) This value does not include 450 tons of Redox UNH.
(5) TBP waste.

[redacted]

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[redacted]

HW- 29242

OVERALL STATUS AND RESERVE FOR MONTH ENDING August 31, 19 53.

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	BATCHES RESERVE	GALLONS TOTAL
METOL	WEST	9,071,000	1,403,000	520 (1)	10,474,000
	EAST	9,393,500	610,000	226 (1)	10,003,500
FIRST CYCLE	WEST	3,960,000	1,348,000	482 (2)	5,308,000
	EAST	4,288,000	16,000	6 (2)	4,304,000
FIRST CYCLE BOTTOMS	WEST	2,187,000	76,000		2,263,000
	EAST	2,078,000	1,091,000		3,169,000
SECOND CYCLE & 2ND SLUDGE	WEST	1,847,000	0	2,736 (3)	1,847,000
	EAST	1,602,000	0	2,212 (3)	1,602,000
REDOX		6,881,000	2,171,000	523 (3)	9,052,000
TBP	WEST	2,949,000	3,586,000	861 (5)	6,535,000
	EAST	5,865,000	249,000	59 (5)	6,114,000
UNAVAILABLE FREE SPACE			8,125,500		8,125,500
TOTAL		50,121,500	18,675,500		68,797,000

TOTAL OF ALL TANKS:

(1) AT 2700 GALS. OF METOL WASTE PER RUN PROCESSED.
(2) AT 2800 GALS. OF FIRST CYCLE WASTE PER RUN PROCESSED.
(3) AT 910 GALS. OF SECOND CYCLE AND 2ND SLUDGE PER RUN PROCESSED.
(4) AT 4150 GALS. OF WASTE PER TON PROCESSED.
(5) AT 4150 GALS. OF WASTE PER TON PROCESSED.

REMARKS

[redacted]

A-177

[redacted]

STATUS OF WASTE FARMS

	Type of Waste	Gallons x 10³ Capacity	Storage Total	Storage Sludge	Reserve Cap. 100 Gal.	Reserve Cap. In Batches	Remarks
B Farm							
101	MW	530	0		530 (U)		
102	MW	530	0		530 (U)		Small sludge heel
103	MW	530 (519)	25		91 (U)		Small sludge heel
							Supernatant
104	CD	530	354	309	176		
105	CD	530	28	39	502		
106	CD	530 (519)	100	0	413		
							200-E Evaporator Feed Tan
107	CB	530	530	172			
108	CB	530	530	38			Re-evaporated Bottoms
109	CB	530	530	0			Re-evaporated Bottoms
							Re-evaporated Bottoms
110-1C-2C-	S-6	530	530				
111 1C-2C-	S-6	530	530	414	1168 *	2242	Received B Plant flushes
112 1C-2C-	S-6	542	542				of 1C, 2C, 224 and
							cell flushes.
201 MW	224	54.5	54.5	54.5			
202 MW	224	54.5	54.5	25.0	2965 *	96	
203 MW	224	54.5	54.5	54.5			
204 MW	224	54.5	54.5	54.5			
C Farm							
101	TBP	530	530				
102	TBP	530	343		187		
103	MW	530 (519)	505		14 (U)		
							Supernatant from 105-C
104	MW	530	78		452 (U)		
105	MW	530	396		134 (U)		Metal Waste Removal
106	MW	530 (519)	245		274 (U)		in
							Progress
107	1C-TBP	530	399-531	399			
108	1C-TBP	530	34-495	34			Overflow to 108-C plugged
109	1C-TBP	530 (521)	11-533	10			
110	1C-TBP	530 (521)	231-307	231			
111	1C-TBP	530 (521)	34-520	34			Overflow to 111-C plugged
112	1C-TBP	530 (521)	17-500	14	2	TBP	
201	MW	[illegible]	[illegible]				
202	MW	[illegible]	[illegible]				
203	MW	[illegible]	[illegible]		[illegible] (U)		
204	MW	[illegible]	[illegible]				

* For Sludge

[illegible]

[redacted]

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[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS × 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
BX FARM							
101	MW	530	[illegible]	[illegible]	360 (U)		Sludge estimate
102	MW	530	346		184 (U)		
103	MW	530	530				
104	MW	530	530				
105	MW	530	530				
106	MW	530	530				
107	IC-TBP	530	430-93	[illegible]			
108	IC-TBP	530	10-520	10			
109	IC-TBP	530(524)	34-490	[illegible]			
110	IC	530	530	[illegible]			
111	IC	530	530	[illegible]			
112	IC	530	530	[illegible]			
BY FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758 (747)	765		2 (U)		
104	MW	758	758				
105	MW	758	495		263	97	
106	IC	758	758				
107	IC-TBP	758	1-757	1			
108	TBP	758 (747)	687	[illegible]	60		
109	MW	758 (747)	77		703 (U)		Supernatant
110	SUPERNATE IC	758 (747)	732	[illegible]	16	6	
111	MW	758	758				Receives misc. wastes
112	MW	758 (747)	400		327	129	from TBP & hot semi-works
T FARM							
101	MW	[illegible]	0	[illegible]	530 (U)		Completing sluicing
102	MW	[illegible]	72	72	458 (U)		Metal waste removal
103	MW	[illegible]	[illegible]				in progress
104	IC	[illegible]	530	[illegible]			
105	IC	[illegible]	[illegible]	[illegible]			
106	IC	[illegible] (524)	429	[illegible]			
[illegible]	IC	[illegible]	[illegible]	[illegible]	[illegible]	TBP	Supernatant sent to the
[illegible]	IC	[illegible]	[illegible]	[illegible]	[illegible]	TBP	101-A-T tank to feed the
[illegible]	IC	[illegible] (524)	[illegible]	[illegible]	[illegible]	TBP	242-T Evaporator

[redacted]

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[redacted] HW- 29222

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
T FARM							
112 5-6	224 DC	530	530	521	0 *	17	
111 5-6	224 DC	530	530	155	344 *	649	3 tank cascade to crit
112 5-6	224 DC	554	555	2	557 *	1070	
221	224	54.5	54.5	54.5			
222	224	54.5	54.5	54.5			
223	224	54.5	54.5	54.5			
224	224	54.5	54.5	54.5			
	* FOR SLUDGE	(Sludge level taken with a photoelectric cell sludge level indicator and shows compacting of the sludge.)					
U FARM							
121	MW	530	299		231	86	T Plant Active MW Tank
122	MW	530	0		530	196	
123	MW	530 (519)	0		519	192	
124	MW	530	0		530 (U)		
125	MW	530	0		530 (U)		
126	MW	530 (519)	353		166 (U)		
127	MW	530	112	112	418 (U)		Sluicing Sludge
128	MW	530	439		91 (U)		
129	MW	530 (519)	279		240 (U)		
110	I C	530	337	336	193 (U)		
111	I C	530	17	14	513 (U)		
112	I C	530 (519)	34	32	485 (U)		
221	R	54.5	0		54.5 (U)		
222	R	54.5	0		54.5 (U)		
223	R	54.5	0		54.5 (U)		
224	R	54.5	0		54.5 (U)		
TX FARM							
121	MW	750	758				
122	MW	750	758				
123	MW	750	758				
124	MW	750 (739)	750				
125	MW	750	758				
126	MW	750	635		123	46	
127	MW	750	758				
128	MW	750 (739)	752				
109	I C	750	758				T Plant active
110	I C	750	758				first cycle
111	I C	750	157		602	215	waste
112	I C	750 (739)	0		750	267	cascade

[redacted]

RPP-13300, Rev. 0

[redacted] 29222

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS (x 10³) CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
TX FARM (CONT'D)							
113	EB	758 (747)	672		75		Receiving Evaporator Bottoms
114	MW	758 (747)	666		81 (U)		
115	MW	758 (747)	395		352 (U)		Supernatant
116	SUPERNATE EB	758	758				Re-evaporated bottoms
117	EB	758	758				Re-evaporated bottoms
118	TBP	758 (747)	413		334		200-W Evaporator Feed Tank
TY FARM							
101	TBP	758	0		758		
102	TBP	758 (747)	0		747		
103	TBP	758	758				Receiving TBP waste
104	TBP	758 (747)	176		572		
105	TBP	758	758				
106	TBP	758 (752)	752				
S FARM							
101	R	758	600		170	36	Cascade receives – salt
102	R	758	0		758	183	waste, lab waste, and
103	R	758 (747)	0		747	180	"hot" condensate
104	R	758	705		53	13	Cascade receives
105	R	758	758				centrifuge cake
106	R	758 (747)	729		18	4	waste
107	R	758	758				
108	R	758	758				
109	R	758 (747)	575		172	41	
110	R	758	758				Cascade receives
111	R	758	758				coating
112	R	758 (747)	473		274	66	waste

* MW – METAL WASTE
1 C – FIRST CYCLE WASTE
2 C – SECOND CYCLE WASTE
R – REDOX WASTE

224 -224 BLDG. WASTE
TBP – TBP WASTE
EB – EVAPORATOR BOTTOMS
(U) – UNAVAILABLE FREE SPACE

[redacted]

RPP-13300, Rev. 0

[redacted]

HW- 29622

COPY NO. 1. CA Priode
2. RS BELL
3. VR CHAPMAN
4. VR COOPER
5. OF HILL
6. WN MOSLEY
7. VD DOMINEE
8. CP CABELL
9. GEA FOSKETT
10. CT GROSWITH
11. JJ COURTNEY
12. D. MC DONALD
13. JT CHRISTY, AEC-HQ
14. OK CARPENTER
15-19. EXTRA
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SEPARATIONS SECTION

WASTE — STATUS SUMMARY

BY

O. K. CARPENTER

PLANNING AND SCHEDULING
SEPARATIONS — OPERATIONS

RECEIVED
JUL
300 AREA
CLASSIFIED FILES

[redacted]

A-182

RPP-13300, Rev. 0.

[redacted]

PERFORMANCE FOR MONTH ENDING September 30 19 53

TYPE OF WASTE	RUNS OF THIS TYPE TO STGE.	GALLONS SPIKED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
METAL	25	0	86,625	3,465 (1)
1ST CYCLE	28	0	60,375	2,406
2ND CYCLE & 224	29 - 2nd cycle 46 - 224	171,018	27,000	-

SLUDGE INCREASE

	PRODUCTION OF THIS TYPE WASTE	GALLONS SPIKED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
REDOX	118.9	1,066,042	398,025 (2)	3,348
TBP	209.7	4,190,000	1,125,798	5,369

RATIO OF 1.28 TO THEORETICAL 4000 GALS. PER TON

EVAPORATOR	FEED SUPERNATANT	FEED BOTTOMS	FEED TOTAL	BOTTOMS MADE	CONDENSATE TO CRIBS	% VOLUME REDUCTION
EAST	254,000 (3)	0	254,000	161,000	93,000	37
WEST	476,284 (4)	0	476,284	276,750	199,534	42

REMARKS:

(1) This value is high due to processing low MWD material.
(2) Total of all waste sent to underground storage. 76,025 gallons of waste storage space was recovered during September due to self-evaporation of the 104-S tank and solution shrinkage.
(3) TBP Waste. Started evaporation on 9-30-53
(4) TBP Waste.

[redacted]

A-183

RPP-13300, Rev. 0

[redacted]

OVERALL STATUS AND RESERVE FOR MONTH ENDING September 30, 1953.

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	BATCHES RESERVE		GALLONS TOTAL
METAL	WEST	8,538,000	1,317,000	38	(1)	9,856,000
	EAST	8,528,500	614,000	213	(1)	9,142,500
FIRST CYCLE	WEST	4,023,000	1,281,000	158	(2)	5,304,000
	EAST	4,286,000	18,000	6	(2)	4,304,000
FIRST CYCLE BOTTOMS	WEST	2,492,000	1,302,000			3,794,000
	EAST	2,126,000	524,000			2,650,000
SECOND CYCLE & 224 SLUDGE	WEST	1,847,000	0	1,885	(3)	1,847,000
	EAST	1,820,000	0	1,365	(3)	1,820,000
REDOX		7,203,000	1,849,000	415	(4)	9,052,000
TBP	WEST	3,387,000	1,634,000	389	(5)	5,021,000
	EAST	6,047,000	1,105,000	257	(5)	7,152,000
UNAVAILABLE FREE SPACE			8,860,500			8,860,500
TOTAL		50,300,500	18,502,500			68,803,000

TOTAL OF ALL TANKS:

(1) AT 2700 GALS. OF METAL WASTE PER RUN PROCESSED.
(2) AT 2900 GALS. OF FIRST CYCLE WASTE PER RUN PROCESSED.
(3) AT 500 GALS. OF SECOND CYCLE AND 224 SLUDGE PER RUN PROCESSED.
(4) AT 4150 GALS. OF WASTE PER TON PROCESSED.
(5) AT 4200 GALS. OF WASTE PER TON PROCESSED.

REMARKS:

[redacted]

A-184

RPP-13300, Rev. 0

[redacted] HW- 29621

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
B FARM							
101	MW	530			531 (U)		Small sludge heel
102	MW	530			[illegible]		Small sludge heel
103	MW	530 (519)	[illegible]		102 (U)		
104	EB	530	502	301	22		Rec'd TBP Waste Evap. bottoms
105	EB	530	28	28	502		
106	TBP	530 (519)	207	0	322		200-B Evaporator Feed Tank
107	EB	530	530	372			Rec'd TBP waste from 112-C. First cycle
108	EB	530	530	34			Pre-evaporated
109	EB	530	530	0			bottoms
110-IC-2C-	S-6	530	531	375	152	257	Received B Plant flushes
111 IC-2C-	S-6	530	531	237	293	556	of 1C, 2C, 224 and
112 IC-2C-	S-6	542	542	0	542	1022	cell flushes.
201 MW	224	54.5	54.5	54.5			
202 MW	224	54.5	54.5	25.0	29.5		
203 MW	224	54.5	54.5	54.5			
204 MW	224	54.5	54.5	54.5			

* For Sludge

C FARM							
101	TBP	530	222		308		Rec'd TBP waste and pumped to 103-C.
102	TBP	530	207		69		Rec'd TBP Waste. Cascade to 103-C
103	TBP	530 (519)	428		22		Pumped MW Supernatant to 106-C
104	MW	530	26		484 (U)		Land Rec'd TBP Waste from 101-C
105	MW	530	222		328 (U)		Metal Waste Removal in
106	MW	530 (519)	130		80 (U)		Process. 104-C Rec'd
107	IC-TBP	530	300-331	349			MW Supernatant from 103-C
108	IC-TBP	530	32-290	34			Overflow to 108-C plugged
109	IC-TBP	530 (521)	22-511	12			
110	IC-TBP	530 (536)	232-307	331			Overflow to 110-C plugged
111	IC-TBP	530 (536)	32-502	34			
112	IC-TBP	530 (512)	[illegible]		[illegible]	[illegible]	Pumped TBP Waste to 1C-B
201	MW	54.5	54.5				
202	MW	54.5	[illegible]		46.5 (U)		
203	MW	54.5	[illegible]				
204	MW	54.5	[illegible]				

MW - METAL WASTE
IC - FIRST CYCLE WASTE
2C - SECOND CYCLE WASTE
S - SODA WASTE
SLUDGE WASTE
TBP WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE

[redacted]

A-185

RPP-13300, Rev. 0

[redacted] MW- 20622

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
BX FARM							
101	MW	530	165	165	265 (U)		Sludge estimate
102	MW	530	145		19_ (U)		
103	MW	530	5[illegible]				
104	MW	530	520				
105	MW	530	530				
106	MW	530	530				
107	IC-TBP	530	43[illegible]-93	137			
108	IC-TBP	530	10-520	10			
109	IC-TBP	530 (524)	34-_90	34			
110	IC	530	530	33			
111	IC	530	530	0			
112	IC	530	530	334			
BY FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758 (747)	745		2 (U)		
104	MW	758	758				
105	MW	758	497		261	07	
106	IC	758	758				
107	IC-TBP	758	1-757				
108	TBP	758 (747)	687	0	60		
109	MW	758 (747)	2[illegible]		703 (U)		Supernatant
110	SUPERNATANT IC	758 (747)	723	0	16	6	
111	MW	758	758				Receives Misc. Wastes
112	MW	758 (747)	391		353	231	From TBP & Hot Semi-work
T FARM							
101	MW	530	0		530 (U)		
102	MW	530	1	1	529 (U)		Metal Waste, Personal
103	MW	530 (519)	2[illegible]		278 (U)		In Process
104	I-C	530	530	377			
105	I-C	530	530	149			
106	I-C	530 (528)	528	10			
107	I-C	530	23[illegible]	201	20[illegible]	TBP	
108	I-C-TBP	530	7[illegible]	21	[illegible]	TBP	
109	I-C-TBP	530	[illegible]	[illegible]	33	TBP	

[redacted]

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RPP-13300 Rev. 0

[redacted] HW- 29624

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS x 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP 1000 GALS	RESERVE CAP IN BATCHES	REMARKS
T FARM							
110 5-6	224-2C	530	530	521	9	17	T Plant active 2nd cycle
111 5-6	224-2C	530	530	233	327	598	waste - 3 tank cascade
112 5-6	224-2C	569	569	2	567	1072	to crib.
201	224	54.5	54.5	54.5			
202	224	54.5	54.5	54.5			
203	224	54.5	54.5	54.5			
204	224	54.5	54.5	54.5			
* FOR SLUDGE							
U FARM							
101	MW	530	385		145	54	U Plant Active W/ Tank
102	MW	530	0		530	196	
103	MW	530 (519)	0		519	192	
104	MW	530	182		348 (U)		
105	MW	530	0		530 (U)		
106	MW	530 (519)	28		491 (U)		
107	MW	530	6	6	524 (U)		Sluicing Sludge
108	MW	530	458		72 (U)		
109	MW	530 (519)	280		239 (U)		
110	I C	530	335	335	195 (U)		
111	I C	530	15	14	515 (U)		
112	I C	530 (519)	34	32	485 (U)		
201	R	54.5	0		54.5 (U)		
202	R	54.5	0		54.5 (U)		
203	R	54.5	0		54.5 (U)		
204	R	54.5	0		54.5 (U)		
TX FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758	758				
104	MW	758 (750)	750				
105	MW	758	758				
106	MW	758	535		223		
107	MW	758	758				
108	MW	758 (751)	751				
109	I C	758	758	522			T Plant Active
110	I C	758	758				First Cycle
111	I C	758	224		534	191	Waste
112	I C	758 (747)	0		747	267	Cascade

[redacted]

H-2902, 10-M (8-55)

A-187

RPP-13300, Rev. 0

[redacted] HW- 29621

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS x 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
TX FARM (CONT'D.)							
113	EB	758	758				Filled with TBP Bottoms 9-9-53
114	MW	758 (747)	[illegible]		8[illegible] (U)		
115	MW	758 (747)	[illegible]		3[illegible] (U)		Supernatant.
116	SUPERNATE EB	758	758				First cycle re-evaporated bottoms
117	EB	758	420		338		MT'd to 101-TY. Now feed TBP-EB
118	TBP	758 (747)	732		25		200-W evaporator feed tank
TY FARM							filled with TBP waste from 106-TY.
101	EB	758	556		202	EB	Rec'd 1C, EB from 117-TX
102	EB	758 (747)	0		747	EB	
103	TBP	758	758				
104	TBP	758	758				
105	TBP	758	759				Receives TBP Waste
106	TBP	758 (747)	289		247		Pumps to 118-TX Evap. Feed Tank
S FARM							
101	R	758	758				Cascade receives - salt
102	R	758	239		519	125	waste, lab. waste and "hot"
103	R	758 (747)	0		747	180	condensate.
104	R	758	663		95	23	Cascade receives
105	R	758	723		35	8	centrifuge cake
106	R	758 (747)	729		18	2	waste.
107	R	758	753		7	2	
108	R	758	751		7	2	
109	R	758 (747)	575		172	41	
110	R	758	758				Cascade receives
111	R	758	758				bcating
112	R	758 (747)	298		449	60	waste.

* MW - METAL WASTE
1 C - FIRST CYCLE WASTE
2 C - SECOND CYCLE WASTE
R - REDOX WASTE

224 - 224 BLDG. WASTE
TBP - TBP WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE

[redacted]

A-188

RPP-13300, Rev. 0

HW-29905

[redacted]

RECORD CENTER FILE

1. TA [illegible]
2. NB BELL
3. VN CHAPMAN
4. VN CLOWER
5. DF HILL
6. WN MOBLEY
7. VD DOMINEE
8. CF CABELL
9. EA FORNETT
10. CT GNOSWITH
11. JJ COURTNEY
12. D. MC DONALD
13. JT CHRISTY, HEC400
14. OK CARPENTER
15-19. EXTRA
20. 700 FILE
21. YELLOW FILE

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13-31-53

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SEPARATIONS SECTION

WASTE – STATUS SUMMARY

BY

O. K. CARPENTER

PLANNING AND SCHEDULING

SEPARATIONS – OPERATIONS

[redacted]

RECEIVED

JUL 2 1956

300 AREA
CLASSIFIED FILES

[redacted]

M-2902, 14-M (7-53)
AEC & S ORCHARD WASH

A-184

RPP-13300, Rev. 0

[redacted]

HW-[illegible]

PERFORMANCE FOR MONTH ENDING October 31 19 5[illegible].

TYPE OF WASTE	NUMBER OF THIS TYPE TO STGE.	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
METAL	2[illegible]	*0	25,625	2,801
1ST CYCLE	21	0	60,500	2,521
2ND CYCLE & 224	21 - 2nd Cycle 59 - 224-T	199,865	11,000	-

* SLUDGE INCREASE

	PRODUCTION OF THIS TYPE WASTE	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
REDOX	186.1	1,052,532	568,480 (1)	3,050
TBP	230.0	4,640,000	1,333,503	5,798

** RATIO OF 1.38 TO THEORETICAL 4200 GALS. PER TON

EVAPORATOR	FEED			BOTTOMS MADE	CONDENSATE TO CRIBS	% VOLUME REDUCTION
	SUPERNATANT	BOTTOMS	TOTAL			
EAST	604,312 (2)	0	604,312	404,937	199,375	33.0
WEST	491,563 (2)	0	491,563	329,313	162,250	33.0

REMARKS:

(1) Total of all waste sent to underground storage. 25,480 gallons of waste storage space was recovered during October due to self-evaporation of the 101-S and 104-S tanks and solution shrinkage

(2) TBP waste.

[redacted]

A-190

RPP-13300, Rev. 0

[redacted]

OVERALL STATUS AND RESERVE FOR MONTH ENDING [illegible] 19 53.

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	BATCHES RESERVE		GALLONS TOTAL
METAL	WEST	8,065,000	1,241,000	[illegible]	(1)	9,306,000
	EAST	8,236,500	[illegible]	228	(1)	8,850,500
FIRST CYCLE	WEST	4,080,000	1,220,000	436	(2)	5,300,000
	EAST	4,288,000	16,000	6	(2)	4,304,000
Evaporator BOTTOMS	WEST	2,793,000	1,505,000			4,298,000
	EAST	2,524,000	126,000			2,650,000
SECOND CYCLE & 224 SLUDGE	WEST	1,847,000	0	1,663	(3)	1,847,000
	EAST	1,820,000	0	1,865	(3)	1,820,000
REDOX		7,746,000	1,306,000	315	(4)	9,052,000
TBP	WEST	3,318,000	1,733,000	413	(5)	5,051,000
	EAST	6,162,000	1,026,000	244	(5)	7,188,000
UNAVAILABLE FREE SPACE			9,172,500			9,172,500
TOTAL		51,879,500	17,959,500			69,839,000

* TOTAL OF ALL TANKS:

(1) AT 2700 GALS. OF METAL WASTE PER RUN PROCESSED.
(2) AT 2800 GALS. OF FIRST CYCLE WASTE PER RUN PROCESSED.
(3) AT 535 GALS. OF SECOND CYCLE AND 224 SLUDGE PER RUN PROCESSED.
(4) AT 4150 GALS. OF WASTE PER TON PROCESSED.
(5) AT 4150 GALS. OF WASTE PER TON PROCESSED.

REMARKS

[redacted]

A-191

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
B FARM							
101	MW	530	[illegible]		[illegible] (U)		Still [illegible] small sludge heel
102	MW	530	[illegible]		[illegible] (U)		
103	MW	530 (519)	[illegible]		[illegible] (U)		Water supernatant for blending
104	EB	530	[illegible]	309			Receiving TBP waste
105	EB	530	[illegible]	28	122		evaporator bottoms
106	TBP	530 (519)	222	0	278		200-E evaporator feed tank
107	EB	530	530	102			Acid TBP waste from 109-BX First cycle
108	EB	530	530	34			re-evaporated
109	EB	530	530	0			bottoms
110-1C-2C-	S-6	530	530	308	262 *	287	Received B Plant flushes
111 1C-2C-*	S-6	530	530	237	293 *	556	of 1C, 2C, 224 and
112 1C-2C-	S-6	541	542	0	542 *	1322	cell flushes
201 MW	224	54.5	54.5	54.5			
202 MW	224	54.5	54.5	25.0	29.5 *		
203 MW	224	54.5	54.5	54.5			
204 MW	224	54.5	54.5	54.5			

* *For Sludge

C FARM							
101	TBP	530	[illegible]		13		Received
102	TBP	530	[illegible]		22		TBP
103	TBP	530, 540	[illegible]				waste
104	MW	530	13		520 (U)		Metal waste
105	MW	530	202		328 (U)		removal
106	MW	530 (519)	300		230 (U)		in progress
107	1C-TBP	530	[illegible]	399			Overflow to 108-C plugged
108	1C-TBP	530	[illegible]	34			
109	1C-TBP	530 (521)	[illegible]	10			
110	1C-TBP	530 (534)	[illegible]	231			Overflow to 111-C plugged
111	1C-TBP	530 (536)	[illegible]	39			
112	1C-TBP	530 (519)	[illegible]	15	[illegible]	[illegible]	
201	MW	54.5	[illegible]				
202	MW	54.5	[illegible]		[illegible]		
203	MW	54.5	[illegible]				
204	MW	54.5	[illegible]				

* MW - METAL WASTE
1C - FIRST CYCLE WASTE
2C - SECOND CYCLE WASTE
S-6 - BLOCK WASTE
224 - 224 BLDG. WASTE
TBP-1C - WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE PULSE SPACE

[redacted]

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 STORAGE CAPACITY	TOTAL	SLUDGE	RESERVE CAPS 1000 GAL.	IN BATCHES	REMARKS
BX FARM							
101	MW	530	[illegible]	[illegible]	[illegible]		[illegible]
102	MW	530	[illegible]		[illegible]		
103	MW	530					
104	MW	530	[illegible]				
105	MW	530	[illegible]				
106	MW	530	[illegible]				
107	IC-TBP	530	[illegible]	432			
108	IC-TBP	530	[illegible]	10			
109	IC-TBP	530	[illegible]	34	[illegible]	[illegible]	Transferred to 108-B and received TBP waste
110	IC	530	[illegible]	133			
111	IC	530	[illegible]	0			
112	IC	530	[illegible]	239			
BY FARM							
101	MW	758	758				
102	MW	758	[illegible]				
103	MW	758 (747)	[illegible]		[illegible]		
104	MW	758	[illegible]				
105	MW	758	[illegible]		201	97	
106	IC	758	758				
107	IC-TBP	758	[illegible]	1			
108	[illegible]	758	[illegible]	0	[illegible]		
109	MW	758 (747)	[illegible]		[illegible]		Supernatant
110	IC	758 (747)	[illegible]	0	36	6	Receives misc. waste from TBP & Hot Semi-Works
111	MW	758	758				
112	MW	758 (747)	[illegible]		[illegible]	131	
T FARM							
101	TBP	530	[illegible]				Redid uncontrolled TBP waste for [illegible] test
102	MW	530	[illegible]		[illegible]		Metal waste removal in progress
103	MW	530 (519)	[illegible]		[illegible]		
104	I-C	530	[illegible]	377			
105	I-C	530	[illegible]	149			
106	I-C	530 (528)	528	10			
107	I-C	530	[illegible]	201	240	TBP	
108	I-C-TBP	530	[illegible]	21	[illegible]	TBP	
109	[illegible]	530	[illegible]	0	[illegible]	58	Receives IC & TBP evap. waste [illegible] from 107-T

[redacted]

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS x 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 100 GAL.	RESERVE CAP. IN BATCHES	REMARKS
T FARM							
110 [illegible]	[illegible]	530	[illegible]	[illegible]	[illegible]	[illegible]	T Plant active 2nd
111 [illegible]	[illegible]	530	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] tank
112 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
201	224	54.5	[illegible]	54.5			
202	224	54.5	[illegible]	54.5			
203	224	54.5	[illegible]	54.5			
204	224	54.5	[illegible]	54.5			
* FOR SLUDGE							
U FARM							
101	MW	530	[illegible]		60	20	T Plant active
102	MW	530	0		430	100	Total waste
103	MW	530 (519)	0		410	142	[illegible]
104	MW	530	0		530 (U)		MW supernatant used in blending at TX
105	MW	530	0		530 (U)		
106	MW	530 (519)	14		402 (U)		MW supernatant used in blending at TX
107	MW	530	5	5	525 (U)		Sluicing sludge
108	MW	530	421		109 (U)		MW supernatant used in blending at TX
109	MW	530 (519)	153		356 (U)		
110	I C	530	324	324	205 (U)		
111	I C	530	14	14	516 (U)		
112	I C	530 (519)	[illegible]	32	285 (U)		
201	R	54.5	0		54.5 (U)		
202	R	54.5	0		54.5 (U)		
203	R	54.5	0		54.5 (U)		
204	R	54.5	0		54.5 (U)		
TX FARM							
101	MW	756	752				
102	MW	756	758				
103	MW	756	758				
104	MW	756 (750)	750				
105	MW	758	758				
106	MW	756	[illegible]		[illegible]	[illegible]	
107	MW	756	[illegible]				
108	MW	756 (751)	[illegible]				
109	I C	756	753	622			T Plant active
110	I C	756	758	[illegible]			[illegible]
111	I C	756	225		[illegible]	100	waste
112	I C	756 (747)	[illegible]		[illegible]	267	[illegible]

[redacted]

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 1,000 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	REMOVE LAST 30 GAL.	REMOVE LAST IN BATCHES	REMARKS
TX FARM (CONTD.)							
111	EP	758	758	292			[illegible] & TBP evaporator bottoms
112	MW	758 (747)	000	4	[illegible]		
113	MW	758 (747)	[illegible]	0	[illegible]		Supernatant
114	EB	758	[illegible]		[illegible]		Transferred first cycle strip bottoms to 102-TX tanks
115	EB	758	[illegible]		58		Strip tower bottoms receiver
116	TBP	758 (747)	[illegible]		[illegible]		Acid evaporator feed tank
TY FARM							
117	EB	758	758			58	Received first cycle strip bottoms from 110-TX
118	EB	758 (747)	[illegible]		102	EB	
119	TBP	758	758				
120	TBP	758	758				
121	TBP	758	758				
122	TBP	758 (747)	289		58		
S FARM							
101 **	R	758	758				Cascade receives salt waste,
102	R	758	755		3	3	acid waste, and
103	R	758 (747)	0		[illegible]	180	TBP condensate
104 **	R	758	67[illegible]		12[illegible]	30	Cascade receives
105	R	758	[illegible]		[illegible]	8	centrifuge cake
106	R	758 (747)	723		28	1	waste
107	R	758	751		7	2	
108	R	758	751		7	2	
109	R	758 (747)	492		[illegible]	[illegible]	
110	R	758	742				Cascade
111	R	758	742				receives
112	R	758 (747)	4[illegible]3		109	28	cladding waste

* MW - METAL WASTE
1 C - FIRST CYCLE WASTE
2 C - SECOND CYCLE WASTE
R - REDOX WASTE

224-[illegible] BLDG. WASTE
TBP - TBP WASTE
EP - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE

** [illegible] - 241-S tank started self concentration on 10-21-[illegible].

[redacted]

A-195

RPP-13300, Rev. 0

RECORD CENTER FILE

[redacted]

HW- 30250

COPY NO. 1. CA Priode
2. RS BELL
3. VR CHAPMAN
4. VR COOPER
5. OF HILL
6. WN MORLEY
7. VO DONIHEE
8. CP JABELL
9. EA FOSKETT
10. CT GROSWITH
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12. D. MC DONALD
13. JT CHRISTYUSCHOO
14. OK CARPENTER
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11-30-53

Declassified By J.P. Deroulin Date 5-7-82

Dean Parks 2-11-92
J Geraghty 2-11-92

SEPARATIONS SECTION

WASTE – STATUS SUMMARY

BY

O. K. CARPENTER

PLANNING AND SCHEDULING

SEPARATIONS – OPERATIONS

[redacted]

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JUL 2 1956
300 AREA
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[redacted]

A-196

RPP-13300, Rev. 0

[redacted]

HW- 32250

PERFORMANCE FOR MONTH ENDING NOVEMBER 30, 19 53.

TYPE OF WASTE	RUNS OF THIS TYPE TO STGE.	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
METAL	32	0	55,250	2,842
1 ST CYCLE	32	0	79,750	2,492
2 ND CYCLE & 224	33 - 2nd Cycle 27 - 224-T	213,596	11,500 *	—

* SLUDGE INCREASE

	PRODUCTION OF THIS TYPE WASTE	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
REDOX	5.7	193,297	44,000 (1)	7,719 (2) **
TBP	137.7	3,490,000	689,313	5,006

** RATIO OF 1.19 TO THEORETICAL 4200 GALS. PER TON

EVAPORATOR	FEED			BOTTOMS MADE	CONDENSATE TO CRIBS	% VOLUME REDUCTION
	SUPERNATANT	BOTTOMS	TOTAL			
EAST	437,251 (3)	0	437,251	295,780	141,471	32.4
WEST	439,313 (3)	0	439,313	299,750	139,563	31.8

REMARKS:

(1) Total of all waste sent to underground storage. 108,000 gallons of waste storage space was recovered during November due to self-evaporation of the 101-S and 104-S tanks and solution shrinkage.

(2) This value is high due to column and process vessel flushes.

(3) TBP waste.

HW-2502, 13-M (6-51)

[redacted]

A-197

RPP-13300, Rev. 0

[redacted]

HW- 30250

OVERALL STATUS AND RESERVE FOR MONTH ENDING NOVEMBER 30, 19 53.

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	BATCHES RESERVE	GALLONS TOTAL
METAL	WEST	7,973,000	1,156,000	424 (1)	9,129,000
	EAST	7,858,500	614,000	228 (1)	8,472,500
FIRST CYCLE	WEST	4,158,000	1,140,000	407 (2)	5,298,000
	EAST	4,283,000	16,000	6 (2)	4,299,000
Evaporator BOTTOMS	WEST	3,081,000	1,217,000		4,298,000
	EAST	2,817,000	360,000		3,177,000
SECOND CYCLE & 224 SLUDGE	WEST	1,847,000	0	1,643 (3)	1,847,000
	EAST	1,820,000	0	1,865 (3)	1,820,000
REDOX		7,682,000	1,370,000	330 (4)	9,052,000
TBP	WEST	2,886,000	2,165,000	515 (5)	5,051,000
	EAST	6,355,000	833,000	193 (5)	7,188,000
UNAVAILABLE FREE SPACE			9,199,500		9,199,500
TOTAL		50,760,500	18,070,500		68,831,000 *

* TOTAL OF ALL TANKS:

(1) AT 2700 GALS. OF METAL WASTE PER RUN PROCESSED.
(2) AT 2800 GALS. OF FIRST CYCLE WASTE PER RUN PROCESSED.
(3) AT 530 GALS. OF SECOND CYCLE AND 224 SLUDGE PER RUN PROCESSED.
(4) AT 4150 GALS. OF WASTE PER TON PROCESSED.
(5) AT 4200 GALS. OF WASTE PER TON PROCESSED.

REMARKS:

[redacted]

HW-29902, 12-NI (6-53)

A-198

RPP-13300, Rev. 0

[redacted] HW- 30250

STATUS OF WASTE FARMS

	TYPE OF WASTE*	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
D FARM							
101	MW	530	0		530 (U)		Small sludge heel
102	EB	530	510		20		Rec'd bottoms from 105-B
103	MW	530 (519)	0		519 (U)		Trans. to 102-BX
104	EB	530	530	309			LC & TBP Evap. bottoms
105	EB	530	190	28	340		Active Evap. bottoms tank
106	TBP	530 (519)	205	0	53		200-E Evap. feed tank
107	EB	530	530	172			First cycle
108	EB	530	530	34			re-evaporated
109	EB	530 (527)	527	0			bottoms
110-1C-2C-	S-6	530	530	378	152 **	287	Rec'd B Plant flushes
111 1C-2C-	S-6	530	530	237	293 **	566	of 10, 20, 224 and
112 1C-2C-	S-6	542	542	0	542 **	1022	cell flushes
201	224	54.5	54.5	54.5			
202	224	54.5	54.5	35.0	29.5 **		
203	224	54.5	54.5	54.5			
204	224	54.5	54.5	54.5			

** For Sludge

C FARM							
101	TBP	530	517		13	TBP	
102	TBP	530	508		22	TBP	
103	TBP	530 (500)	500				
104	MW	530	0		530 (U)		Small sludge heel
105	MW	530	78		452 (U)		MW removal in progress
106	MW	530 (519)	194		325 (U)		Reserved for metal waste
107	1C-TBP	530	399-132	399			supernatant blending Overflow to 108-C plugged
108	1C-TBP	530	34-495	34			
109	1C-TBP	530 (521)	10-511	10			
110	1C-TBP	530 (538)	231-307	231			Overflow to 111-C plugged
111	1C-TBP	530 (538)	36-502	36			
112	1C-TBP	530 (519)	17-128	15	374	TBP	
201	MW	54.5	54.5				
202	MW	54.5	0		45.5 (U)		
203	MW	54.5	54.5				
204	MW	54.5	54.5				

* MW - METAL WASTE
1C - FIRST CYCLE WASTE
2C - SECOND CYCLE WASTE
E - FEED WASTE

224 - 224 BLDG. WASTE
TBP - TBP WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE

[redacted]

A-199

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
BX FARM							
101	MW	530	[illegible]	[illegible]	[illegible]		Fill[illegible] estimate
102	MW	530	[illegible]		[illegible]		Rec'd MW Supernatant from
103	MW	530	[illegible]				-103-B
104	MW	530	[illegible]				
105	MW	530	[illegible]				
106	MW	530	[illegible]				
107	IC-TBP	530	[illegible]-93	437			
108	IC-TBP	530	[illegible]-526	10			
109	IC-TBP	530 (519)	[illegible]-[illegible]	34	311		Active TBP waste receiver
110	IC	530	530	133			pumps to 106-B Evap. Feed Tank
111	IC	530	530	0			
112	IC	530 (526)	248	239			Pumping supernatant to silton
BY FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758 (747)	[illegible]		2 (U)		
104	MW	758	758				
105	MW	758	497		261	97	
106	IC	758 (756)	755				
107	IC-TBP	758	1-757	1			
108	TBP	758 (747)	687	0	80		
109	MW	758 (747)	[illegible]		703 (U)		Supernatant
110	IC	758 (747)	731	0	16	6	
111	MW	758	758				Receives Misc. waste from
112	MW	758 (747)	391		353	131	TBP & Hot Semi-works
T FARM							
101	TBP	530	530				Unconcentrated, Scavenged TBP Waste for test.
102	MW	530	12		518 (U)		Metal waste removal
103	MW	530 (519)	12		507 (U)		in progress
104	I-C	530	530	377			
105	I-C	530	530	149			
106	I-C	530 (528)	528	10			
107	I-C	530	231	201	296	TBP	
108	I-C-TBP	530	[illegible]-8	31	479	TBP	
109	IC-TBP-BB	530 (519)	508	0	11	BB	Rec'd IC & TBP Evap. bottoms from 117-TX

[redacted]

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
T FARM							
110 5-6	224-2C	530	[illegible]	423	[illegible] **	13	T Plant active 2nd
111 5-6	224-2C	530	[illegible]	429	301 **	568	cycle waste - 3 tank
112 5-6	224-2C	530	[illegible]	[illegible]	563 **	1062	cascade to crib
[illegible]	224	54.5	[illegible]	54.5			
202	224	54.5	[illegible]	54.5			
203	224	54.5	[illegible]	54.5			
204	224	54.5	[illegible]	54.5			
** FOR SLUDGE							
U FARM							
101	MW	530	546		-16	-6	Filled Approx. 6" above overflow. T Plant
102	MW	530	0		530	195	active metal
103	MW	530 (519)	0		519	192	waste cascade
104	MW	530	0		530 (U)		
105	MW	530	0		530 (U)		
106	MW	530 (519)	15		504 (U)		Reserved for Metal Waste
107	MW	530	329		201 (U)		supernatant blending Metal Waste
108	MW	530	54		476 (U)		Removal in
109	MW	530 (519)	47		472 (U)		Progress
110	I C	530	335	335	195 (U)		
111	I C	530	15	14	515 (U)		
112	I C	530 (519)	32	32	487 (U)		
201	R	54.5	0		54.5 (U)		
202	R	54.5	0		54.5 (U)		
203	R	54.5	0		54.5 (U)		
204	R	54.5	0		54.5 (U)		
TX FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758	758				
104	MW	758 (750)	750				
105	MW	758	758				
106	MW	758	635		123	46	
107	MW	758	758				
108	MW	758 (751)	751				
109	I C	758	758	630			T Plant active
110	I C	758	758	1			first cycle
111	I C	758	365		393	140	waste
112	I C	758 (747)	0		747	267	cascade

[redacted]

H-2902, 10-M (6-53)

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE*	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 100ᵐ GAL.	RESERVE CAP. IN BATCHES	REMARKS
TX FARM (CONT'D.)							
113	EB	758	760	291			1C & TBP Evaporator Bottoms
114	MW	758 (747)	560	4	21 (U)		
115	MW	758 (747)	3[illegible]	0	381 (U)		Supernatant
116	EB	758	343		425		1C Evaporator bottoms
117	EB	758	572		184		Bottoms transferred to 109-T
118	TBP	758 (747)	232		516		2C-W Evaporator Feed Tank
TY FARM							
101	EB	758	758				
102	EB	758 (747)	140		607		
103	TBP	758	758				
104	TBP	758	758				
105	TBP	758	310		448		Part transferred to 118-TX
106	TBP	758 (747)	289		458		
S FARM							
101	R	758	728		30	7	Cascade receives salt waste,
102	R	758	750		8	2	lab. waste, and
103	R	758 (747)	8		739	178	"hot" condensate
104	R	758	596		162	39	Cascade receives
105	R	758	722		36	9	centrifuge cake
106	R	758 (747)	725		22	5	waste
107	R	758	751		7	2	
108	R	758	750		8	2	
109	R	758 (747)	579		168	40	
110	R	758	758		0		Cascade
111	R	758	758		0		receives
112	R	758 (747)	557		190	46	coating waste

* MW – METAL WASTE
1 C – FIRST CYCLE WASTE
2 C – SECOND CYCLE WASTE
R – REDOX WASTE

224 – 224 BLDG. WASTE
TBP – TBP WASTE
EB – EVAPORATOR BOTTOMS
(U) – UNAVAILABLE FREE SPACE

H-2902, 11-M (6-53)
BEC-CLEVELAND, O.

[redacted]

A-202

RPP-13300, Rev. 0

RECORD CENTER F

[redacted]

COPY NO.: CA Fristoe
2. RS BELL
3. VR CHAPMAN
4. VK COOPER
5. DF HILL
6. WN MOBLEY
7. VD DONIHEE
8. CP CABELL
9. EA FOSKETT
10. CT GROSWITH
11. JJ COURTNEY
12. D. MC DONALD
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2-11-92
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SEPARATIONS SECTION

WASTE – STATUS SUMMARY

BY

G. K. CARPENTER

PLANNING AND SCHEDULING

SEPARATIONS – OPERATIONS

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A-203

RPP-13300, Rev. 0

[redacted]

HW- 30493

PERFORMANCE FOR MONTH ENDING December 31, 19 53.

TYPE OF WASTE	RUNS OF THIS TYPE TO STGE.	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
METAL	-0-	0	125,280	2723
1 ST CYCLE	--	0	110,000	2500
2 ND CYCLE & 224	-- - 2nd Cycle 65 - 224-T	266,994	9,000	0

* SLUDGE INCREASE

	PRODUCTION OF THIS TYPE WASTE	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
REDOX	191.4	1,475,966	557,434 (1)	2912
TBP	90.6	3,820,000	746,688	8242 (2) **

** RATIO OF 1.96 TO THEORETICAL 4200 GALS. PER TON

EVAPORATOR	FEED			BOTTOMS MADE	CONDENSATE TO CRIBS	% VOLUME REDUCTION
	SUPERNATANT	BOTTOMS	TOTAL			
EAST	572,490 (3)	0	572,490	392,565	179,925	31.4
WEST	441,401 (3)	0	441,401	280,155	161,246	36.5

REMARKS:

(1) Total of all waste sent to underground storage. 109,000 gallons of waste storage space was recovered during December due to self-evaporation of the 101-S and 104-S tanks and solution shrinkage.

(2) This value is high due to:

(a) Rework of Redox UNH
(b) Rework of TBP production caused in part by the shut-down to install new RA columns.

(3) TBP waste.

[redacted]

RPP-13300/Rev.0

-3-

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-w- 30498

OVERALL STATUS AND RESERVE FOR MONTH ENDING December 31, 1953.

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	BATCHES RESERVE		GALLONS TOTAL
METAL	WEST	7,644,000	908,000	336	(1)	8,552,000
	EAST	7,710,400	614,000	228	(1)	8,324,400
FIRST CYCLE	WEST	4,234,000	1,031,000	368	(2)	5,064,000
	EAST	3,870,000	16,000	6	(2)	3,886,000
Evaporator BOTTOMS	WEST	3,377,000	921,000			4,298,000
	EAST	3,209,000	498,000			3,707,000
SECOND CYCLE & 224 SLUDGE	WEST	1,847,000	0	1,626	(3)	1,847,000
	EAST	1,715,000	0	1,238	(3)	1,715,000
REDOX		8,130,000	922,000	222	(4)	9,052,000
TBP	WEST	2,429,000	2,134,000	508	(5)	4,764,000
	EAST	6,308,000	891,000	212	(5)	7,199,000
UNAVAILABLE FREE SPACE			10,431,600			10,431,600
TOTAL		50,473,400 *	18,366,600			68,840,000

* TOTAL OF ALL TANKS:

(1) AT 2700 GALS. OF METAL WASTE PER RUN PROCESSED.
(2) AT 2800 GALS. OF FIRST CYCLE WASTE PER RUN PROCESSED.
(3) AT 530 GALS. OF SECOND CYCLE AND 224 SLUDGE PER RUN PROCESSED.
(4) AT 2150 GALS. OF WASTE PER TON PROCESSED.
(5) AT 4470 GALS. OF WASTE PER TON PROCESSED.

REMARKS:

[redacted]

A-205

RPP-13300, Rev. 0

-4-

[redacted]

HW- 30198

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS x 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 100 GAL.	RESERVE CAP. IN BATCHES	REMARKS
B FARM							
101	EB	530	223		307		IT of MW on 12-28-53
102	EB	530	533				Receiving EB from 105-B
103	MW	530 (519)	22		507 (U)		
104	EB	530	525	309	5		Contains water used in sluicing
105	EB	530	344	28	186		1C sludge & TBP Evap bottom
106	EB	530 (519)	444	0	75		Active bottoms tank. Pumping 1200-E Evap. feed tank
107	EB	530	530	172			First cycle
108	EB	530	530	34			re-evaporated
109	EB	530 (527)	527	3			bottoms
110-1C-2C-	5-6	530	425	243	105 (U)		Pumped to 111-C
111 1C-2C-	5-6	530	530	161	369 **	696	Cascaded
112 1C-2C-	5-6	542	542	0	542 **	542	to crib
201	224	54.5	54.5	54.5			
202	224	54.5	54.5	25.0	29.5 **		
203	224	54.5	54.5	54.5			
204	224	54.5	54.5	54.5			
C FARM							
101	TBP	530	517		13		
102	TBP	530	508		22		
103	TBP	530 (560)	560				
104	MW	530	0		530 (U)		Sluicing
105	MW	530	48		482 (U)		MW removal in progress
106	MW	530 (519)	143		376 (U)		MW supernatant blend tank
107	1C-TBP	530	399-131	399			Overflow to 108-C plugged
108	1C-TBP	530	34-496	34			
109	1C-TBP	530 (521)	10-511	10			
110	1C-TBP	530 (539)	231-307	231			Overflow to 111-C plugged
111	1C-TBP	530 (536)	36-500	36			
112	1C-TBP	530 (516)	17-128	15	374	TBP	
201	MW	54.5	15.7		38.8 (U)		Metal waste removal
202	MW	54.5	43.7		10.8 (U)		in progress
203	MW	54.5	14.8		39.7 (U)		Supernatant transferred
204	MW	54.5	15.2		39.3 (U)		to 106-C

* MW – METAL WASTE
1C – FIRST CYCLE WASTE
2C – SECOND CYCLE WASTE
M – MEDOX WASTE
** – For Sludge

224 – 224 BLDG. WASTE
TBP – TBP WASTE
EB – EVAPORATOR BOTTOMS
(U) – UNAVAILABLE FREE SPACE

HW-29021, 8-M (6-53)

[redacted]

RPP-13300, Rev. 0

[redacted]

HW- 30493

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
RX FARM							
101	MW	530	200	150	330 (U)		MW removal
102	MW	530	38[illegible]		144 (U)		in progress
103	MW	530	530				
104	MW	530	530				
105	MW	530	530				
106	MW	530	530				
107	IC-TBP	530	437-93	437			
108	IC-TBP	530	10-520	10			
109	IC-TBP	530	3-149	34	347	TBP	Active TBP waste receiver
110	IC	530	322	133	208 (U)		pumps to 106-B Evap. Feed T[illegible] Pumped supernatant to dit[illegible]
111	IC	530	530	0			
112	IC	530	323	239	207 (U)		Pumped supernatant to ditch
UY FARM							
101	MW	758	758				
102	MW	758	758				
103	MW	758 (747)	745		2 (U)		
104	MW	758	758				
105	MW	758	497		261	97	
106	IC	758 (755)	755				
107	IC-TBP	758	1-757	1			
108	TBP	758 (747)	687	0	60		
109	MW	758 (747)	44		703 (U)		Supernatant
110	IC	758 (747)	731	0	16	6	
111	MW	758	758				Receives high uranium waste
112	MW	758 (747)	394		353	131	from TBP & Hot Semi-Works
T FARM							
101	TBP	530	20		510 (U)		Unconcentrated, scavenged TBP waste for test. 256,000 gals. cribbed. Remainder except heel pumped to 107-T.
102	MW	530	0		530 (U)		Declared empty on 12-10-53
103	MW	530 (519)	0		519 (U)		Declared empty on 12-15-53
104	IC	530	530	377			
105	IC	530	530	149			
106	IC	530 (529)	528	10			
107	IC-TBP	530	201-225	201	54	TBP	Rec'd unconcentrated, scavenged TBP waste from 101-T.
108	IC-TBP	530	73-9	21	449	TBP	
109	IC-TBP-BB	530 (519)	508	0	11	BB	

[redacted]

A-207

RPP-13300, Rev. 0

[redacted]

HW- 30498

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
T FARM							
110 S-6	224 2C	530	530	530	0 **	0	T Plant active 2nd cycle
111 S-6	224 2C	530	[illegible]	230	300 **	566	and 224 waste - 3 tank
112 S-4	224 2C	569	[illegible]	?	552 **	1060	cascade to crib
201	224	54.5	54.5	54.5			
202	224	54.5	54.5	54.5			
203	224	54.5	54.5	54.5			
204	224	54.5	54.5	54.5			
** FOR SLUDGE							
U FARM							
101	MW	530	540		-16	- 6	Filled Approx. 6" above /overflow
102	MW	530	325		405	130	T Plant active metal
103	MW	530 (519)	0		519	192	waste cascade
104	MW	530	0		530 (U)		
105	MW	530	0		530 (U)		
106	MW	530 (519)	30		489 (U)		IW supernatant blend tank
107	MW	530	180		347 (U)		Metal waste
108	MW	530	0		530 (U)		removal in
109	MW	530 (519)	44		475 (U)		progress
110	I C	530	335	335	195 (U)		Being held for
111	I C	530	15	14	515 (U)		Redox
112	I C	530 (519)	[illegible]	32	487 (U)		wastes
201	R	54.5	0		54.5 (U)		
202	R	54.5	0		54.5 (U)		
203	R	54.5	0		54.5 (U)		
204	R	54.5	0		54.5 (U)		
TX FARM							
101	MW	759	270		489 (U)		Supernatnat transferred
102	MW	759	759				to 106-TX and 115-TX
103	MW	759	759				inpreparation for
104	MW	759 (759)	759				sluicing.
105	MW	759	759				
106	MW	759	759				
107	MW	759	759				Rec'd from 101-TX
108	MW	759	759				
109	I C	759	759	630			T Plant
110	I C	759	759				active first
111	I C	759	474		1284	101	cycle waste
112	I C	759 (747)	0		1247	267	cascade

[redacted]

A-208

RPP-13300, Rev. 0

[redacted]

MW- 30493

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
1X FARM (CONT'D.)							
113	EB*	758	758	252			
114	MW	758 (747)	665	4	81 (U)		1C sludge & TBP Evap. Bottoms
115	MW	758 (747)	475	0	271 (U)		Supernatant
116	EB	758	462		296		Rec'd MW supernatant from 101-
117	EB	758	751		7		Active Bottoms Tank-1C & TBP Bo
118	EB	758 (747)	421		325		Rec'd TBP Evap. Bottoms to
TY FARM							200-W Evap. Feed Tank
							Rec'd TBP waste from 104-TY
101	EB	758	758				
102	EB	758 (747)	140		607		
103	TBP	758	758				
104	TBP	758 (747)	141		606		Transferred to 118-TX
105	TBP	758	517		241		Rec'd TBP waste
106	TBP	758 (747)	289		458		
S FARM							
101	R	758	772		-14 (1)	-3	Cascade receives salt waste,
102	R	758	766		- 8 (2)	-2	lab waste, and
103	R	758 (747)	430		317	76	"hot" condensate
104	R	758	524		234	56	Cascade receives
105	R	758	722		36	9	centrifuge cake
106	R	758 (747)	725		22	5	waste.
107	R	758	748		10	2	
108	R	758	747		11	3	
109	R	758 (747)	579		168	41	
110	R	758	758				Cascade
111	R	758	758				receives
112	R	758 (747)	601		146	35	coating waste

* MW - METAL WASTE
1 C - FIRST CYCLE WASTE
2 C - SECOND CYCLE WASTE
R - REDOX WASTE

224 - 224 BLDG. WASTE
TBP - TBP WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE

(1) Filled approx. 5 inches above overflow.

(2) Filled approx. 3 inches above overflow.

H-2402, 11-M (6-53)

[redacted]

RPP-13300, Rev. 0

RECORD CENTER FILE

-1-

[redacted]

HW- 33541

DATE October 31, 1954

COPY NO. 1. CA PRIODE
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10. EF. CURRIEN
11. T PRUDICH
12. D MC DONALD
13. JT CHRISTY, AEC-HQO
14. JG BRADLEY
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SEPARATIONS SECTION

WASTE — STATUS SUMMARY

FOR OCTOBER 1954

BY

D. E. PETERSON

SEPARATIONS — PROJECTS AND PERSONNEL DEVELOPMENT SUB — SECTION

[redacted]

RECEIVED
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300 AREA
CLASSIFIED FILES

[redacted]

HW-2902, 14-M (10-54)
HANFORD WORKS, RICHLAND, WASH.

A-210

R-PP-13300/Rev. 0

-2-

[redacted]

HW- 33914

PERFORMANCE FOR MONTH ENDING [illegible] 19 [illegible]

TYPE OF WASTE	RUNS OF THIS TYPE TO STGE.	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
METAL	[illegible] AW		[illegible]	6,237
1ST CYCLE	[illegible] AW	0	[illegible]	3,614
2ND CYCLE A [illegible]	[illegible] AW (2-3) [illegible] AW (2-3)	[illegible]	0	0

0 GALLON INCREASE WAS INSIGNIFICANT, DUE TO COMPACTING OF SLUDGE.

	PRODUCTION OF THIS TYPE WASTE	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
REDOX	[illegible].1	2,130,[illegible]	[illegible] (1)	3,229
TBP	[illegible].6	[illegible]	[illegible] (2)	16,231

RATIO OF 2.76 TO THEORETICAL [illegible] GALS. PER TON

EVAPORATOR	FEED			BOTTOMS MADE	CONDENSATE TO CRIBS	% VOLUME REDUCTION
	SUPERNATANT	BOTTOMS	TOTAL			
EAST	[illegible] (3)	0	[illegible]	[illegible]	[illegible]	45.7
WEST	0 (4)	0	0	0	0	0

REMARKS:

(1) Total of all waste sent to underground storage. [illegible] gallons of waste storage space was recovered during October due to acid evaporation of the [illegible]-S, [illegible]-S, and [illegible] tanks and solution shrinkage.

(2) TBP scavenged waste.

(3) TBP waste.

(4) West evaporator - shut down for cell replacement and repairs.

[redacted]

RPP-13300, Rev. 0

-3-

HW- 33504

SECRET

OVERALL STATUS AND RESERVE FOR MONTH ENDING October 19 54.

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	BATCHES RESERVE		GALLONS TOTAL
METAL	WEST	[illegible]	[illegible]	[illegible]	(1)	9,147,000
	EAST	[illegible]	[illegible]	[illegible]	(1)	[illegible],973,000
FIRST CYCLE	WEST	[illegible]	[illegible]	[illegible]	(2)	6,169,000
	EAST	2,203,000	139,000	50	(2)	2,248,000
EVAPORATOR BOTTOMS	WEST	1,246,000	726,000			4,972,000
	EAST	1,733,000	550,000			5,283,000
SECOND CYCLE & 224 SLUDGE	WEST	1,882,000	0	1300	(3)	1,882,000
	EAST	1,330,000	0	1023	(3)	1,330,000
REDOX		12,216,000	1,578,000	2195	(4)	16,188,000
TBP	WEST	4,257,000	55,000	92	(5)	4,212,000
	EAST	7,915,000	2,615,000	284	(5)	10,530,000
UNAVAILABLE FREE SPACE			6,348,000			6,348,000
TOTAL		50,177,000	24,535,000			74,912,000

TOTAL OF ALL TANKS:

(1) AT 4200 GALS. OF METAL WASTE PER TON PROCESSED.
(2) AT 2900 GALS. OF FIRST CYCLE WASTE PER RUN PROCESSED.
(3) AT 530 GALS. OF SECOND CYCLE AND 224 SLUDGE PER RUN PROCESSED.
(4) AT 4150 GALS. OF WASTE PER TON PROCESSED.
(5) AT 520 GALS. OF WASTE PER TON PROCESSED.

REMARKS:

SECRET

W-[illegible] (5-54)

A-212

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP 300 GAL.	RESERVE CAP 15 BATCHES	REMARKS
B FARM							
101	EB	530	527				
102	EB	530	522				
103	EB	530(534)	521				
104	EB	530	537	30[illegible]	-7	23	
105	EB	530	[illegible]	28	[illegible]	EB	[illegible]
106	TBP	530 (519)	[illegible]	237	53	TBP	[illegible]
107	[illegible]	530	225-[illegible]	225	[illegible]	23	
108	[illegible]	530	65	65	165	EB	
109	EB	530(527)	[illegible]	325	33	EB	
110-IC-2C-	S-6-EB	530	375-155	[illegible]			
111 IC-2C-	S-6-EB	530	1195-335	101			
112 IC-2C-	S-6	530	512	0	[illegible]	1023	
201 MW	224	54.5 (1)	13.5	54.5			
202 MW	224	54.5	51.5	23.0			[illegible]
203 MW	224	54.5	51.5	50.5			
204 MW	224	54.5	51.5	52.5			

For sludge
(1) Approx. 50,000 gals. of water from [illegible] to this facade.

C FARM							
101	TBP	530	517		30	TBP	Overflow partially plugged
102	TBP	530	530				
103	TBP	530(560)	560				
104	MW	530	35		12(U)		Supernatant supply tank to CR farm
105	TBP	530	51.5		-26	TBP	
106	TBP	530 (519)	536		10	TBP	
107	IC-TBP	530	309-133	349			Overflow to 108-C plugged
108	IC-TBP	532	31-165	34			
109	IC-TBP	530(521)	12-517	10			
110	IC-TBP	530(535)	237-377	231			Overflow to 111-C plugged
111	IC-TBP	530(536)	35-500	36			
112	IC-TBP	530 (519)	17-110	15	53	TBP	
201	MW	54.5	0		54.5(U)		
202	MW	54.5	0		54.5(U)		
203	MW	54.5	0		54.5(U)		
204	MW	54.5	45	11	3.5(U)		

- MW – METAL WASTE
- IC – FIRST CYCLE WASTE
- 2C – SECOND CYCLE WASTE
- H – REDOX WASTE
- 224 – 224 BLDG. WASTE
- TBP – TBP WASTE
- EB – EVAPORATOR BOTTOMS
- (U) – UNAVAILABLE FREE SPACE

W-294, A-M (5-54)

[redacted]

RPP-13300, Rev. 0

[redacted]

MW- 335-1

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS K 10^3 CAPACITY	STORAGE TOTAL	STORAGE SL.IDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
BX FARM							
101	MW	530	0		[illegible]	0	
102	MW	530	0		[illegible]	0	
103	MW	530	0		[illegible]	0	
104	RIW	530	0	0	522(U)		Active sluicing tank
105	MW	530	75		452(U)		H_2O for sluicing
106	MW	530	1		529(U)		
107	IC-TBP	530	437	437			
108	IC-TBP	530	10	10			
109	IC-TBP	530(530)	520	510	[illegible]	TBP	
110	IC-EB	530	224	236	[illegible]		
111	IC-EB	530	457	32			
112	IC-EB	530	73	270	539(U)	50	Space for TBP Scvg. waste
BY FARM							
101	RIW	758	0		758	220	
102	MW	758	0		758	120	
103	RIW	758 (747)	0		747	110	
104	MW	758	0		758	20	
105	MW	758	0		758		For TBP scvg. sludge
106	IC	758	75		683		For TBP scvg. sludge
107	IC-TBP	758	1,527	1	232	TBP	TBP scvg. waste receiver
108	TBP	758	7	0	751	TBP	TBP scvg. waste receiver
109	RIW	758 (749)	429		318(U)		Rec'd. from 112-BY
110	TBP	758 (757)	404	0	3	TBP	To be cribbed after settling
111	MW	758	758				
112	MW	758 (747)	3		736(U)		
T FARM							
101	RIW	530	0		530	0	
102	MW	530	0		530	0	
103	MW	530 (519)	0		519	52	
104	I-C	530	520	525			To be pumped to 118-TX
105	I-C	530	530	197			
106	I-C	530(519)	519	10			
107	I-C-Pref	530	207-323	281	6	TBP	
108	IC-TBP-EB	530(532)	73-3-457	21			
109	IC-TBP-EB	530(543)	7.7	0			

[redacted]

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RPP-13300/Rev.0

[redacted]

HW- 33544

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS ≈ 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. BATCHES	REMARKS
T FARM							
110 S-6	224-2C	530	530	530			T Plant active 2nd
111 S-6	224-2C	530	530	377	153	289	cycle and 224 waste
112 S-6	224-2C	569	569	33	536	2011	cascade to crib.
201	224	54.5	54.5	54.5			
202	224	54.5	54.5	54.5			
203	224	54.5	54.5	54.5			
204	224	54.5	54.5	54.5			
S FOR SLUDGE							
U FARM							
101	MW	530 (543)	543				
102	MW	530 (543)	543				
103	MW	530 (519)	519				
104	MW	530	329		201	32	Started receiving T Plant
105	MW	519	0		519	82	metal waste on 10-8-54.
106	MW	530 (519)	0		519(U)		NW Supernatant blend tank.
107	MW	530	543		-13	-2	
108	MW	530	552		-22	-3	
109	MW	530 (519)	490		29	4	
110	I C-R	530	335-412	339	153	37(R)	Reserve capacity gained
111	I C-R	530	15-515	14			by self-evaporation and
112	I C-R	530(514)	48-466	32			solution shrinkage.
201	R	54.5	0		54.5(U)		
202	R	54.5	0		54.5(U)		
203	R	54.5	0		54.5(U)		
204	R-2C	54.5	35		19.5(U)		Div. Box flush material
TX FARM							
101	MW	758	1	1	757(U)		Sluicing
102	MW	758	0		758(U)		
103	TBP	758	682		76	38P	
104	MW	758	670		88(U)		Supernatant used for blend
105	MW	758	758				ing. Overflow to 106-TX Pan
106	MW	758	758				plugged.
107	MW	758	23		735(U)		Temp. discontinued sluici
108	MW	758	758				
109	I C	758	722	650	36	13	Pumped I-C waste to
110	I C	758	497	10	261	93	110-TX tank because of
111	I C	758 (747)	134		613	218	plugged overflow.
112	SB	758 (752)	752	752			

[redacted]

W-3902, 10-M (3-54)

A-213

RPP-13300, Rev. 0

[redacted]

HW-33514

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
TX FARM (CONT'D.)							
113	EB	758	748	252	10	[illegible]	1C sludge and TBP waste evaporator bottoms
114	EB	758 (747)	714	[illegible]	[illegible]	EB	
115	MW	758 (787)	[illegible]		[illegible]		
116	CB	758	758				
117	CB	758	780		CB	CB	Pumped to 102-TY
118	TBP	758 (747)	[illegible]		[illegible]	[illegible]	Pumped to 102-TY
TY FARM							
101	1-C	758	350	80	608	178	Started receiving scavg. 1-C waste on 10-20-54
102	1-C-EB	758 (787)	518	10	119	EB	
103	TBP	758	755		[illegible]	TBP	To be pumped to 111-TX
104	TBP	758 (770)	770				
105	TBP	758	758	258			
106	TBP	758	[illegible]				
U FARM							
101 (1)	R	758	758				Cascade rerun coating waste
102	R	758	747		11	3	
103	R	758 (747)	549		198	48	
104 (1)	R	758	667		91	22	
105	R	758	726		30	7	
106	R	758 (787)	737		10	2	
107	R	758	722		36	8	
108	R	758	740		18	4	
109	R	758 (747)	576		172	42	
110	R	758	758				
111	R	758	758				
112	R	758 (747)	586		63	15	

- MW – METAL WASTE
- 1 C – FIRST CYCLE WASTE
- 2 C – SECOND CYCLE WASTE
- R – REDOX WASTE
- (1) Self-evaporating
- 224 – 224 BLDG. WASTE
- TBP – TBP WASTE
- CB – EVAPORATOR BOTTOMS
- (U) – UNAVAILABLE FREE SPACE

W-2902 FORM (5-57)

[redacted]

A-216

RPP-13300, Rev. 0

[redacted]

HW-

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS:
FX FARM							
101	H	1000					
102	R	1000					
103	R	1000(980)					
104	R	1000					
105	OR	1000					
106	R	1000(980)					Fume header condensate receiver; pumps to underground cavern.
107	R	1000					
108	R	1000					
109	R	1000(980)					
110	R	1000					Tanks not released to operations.
111	R	1000					
112	R	1000(980)					
113	R	1000					
114	R	1000					
115	R	1000(980)					

MW - METAL WASTE
1C - FIRST CYCLE WASTE
2C - SECOND CYCLE WASTE
R - REDOX WASTE

224 - 224 BLDG. WASTE
TBP - TBP WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE

(1) - Condensate

[redacted]

W-1902, 15-14 (3-64)

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RPP-13300, Rev. 0

[redacted] CENTER FILE

RECORD CENTER

DATE [illegible]

COPY NO. 1. CA PRIDDE
2. WS BELL
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5. DF HILL
6. JT CROSWITH
7. VD DOMINEE
8. RF WILSON
9. [illegible]
10. [illegible]
11. [illegible]
12. E MC DONALD
13. JT CHRISTY, ACC-MOD
14. JC BRADLEY
15. RJ SLOAT
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SEPARATIONS SECTION

WASTE – STATUS SUMMARY

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BY

D. E. PETERSON

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SEPARATIONS – PROJECTS AND PERSONNEL DEVELOPMENT SUB – SECTION

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[redacted]

A-218

RPP-13300, Rev. 0

[redacted]

HW-[illegible]

PERFORMANCE FOR MONTH ENDING December 31, 19[illegible].

TYPE OF WASTE	RUNS OF THIS TYPE TO STGE.	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
METAL	[illegible]	0	[illegible]	5,775
1ST CYCLE	[illegible]	0	[illegible]	3,306
2ND CYCLE & 224	[illegible] (2-C) [illegible] (224)	435,[illegible]	22,000	253

* SLUDGE INCREASE

	PRODUCTION OF THIS TYPE WASTE	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
REDOX	215.6	1,164,715	521,[illegible] (2)	2,420
TBP	12.5	528,[illegible] (2)	212,50[illegible]	21,055 **

** RATIO OF 1.20 TO THEORETICAL 2200 GALS. PER TON

EVAPORATOR	FEED			BOTTOMS MADE	CONDENSATE TO CRIBS	% VOLUME REDUCTION
	SUPERNATANT	BOTTOMS	TOTAL			
EAST	0	0	0	0	0	0
WEST	275,000 (3)	0	275,000	122,000	153,000	55.6

REMARKS:

(1) Total of all waste sent to underground storage. 120,000 gallons of waste storage space was recovered during December due to self-evaporation of the 101-S, 104-S, 110-U, and 101-SX tanks and solution shrinkage.

(2) Does not include 399,000 gallons of TBP scavenged waste which was cribbed from 107-BY and 399,000 gallons of TBP scavenged waste cribbed from 105-BY.

(3) First cycle supernatant feed.

Total TBP scavenged waste cribbed to date in the BY cribs --- 1,362,000 gal

[redacted]

W-2301, 12-M (3-54)

A-219

RPP-13300, Rev. 0

HW- 34412

[redacted]

OVERALL STATUS AND RESERVE FOR MONTH ENDING December 31, 19 54.

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	BATCHES RESERVE	GALLONS TOTAL
METAL	WEST	7,949,000	1,761,000	658 (1)	10,725,000
	EAST	1,243,000	4,312,000	2,098 (1)	5,554,000
FIRST CYCLE	WEST	4,261,000	1,751,000	547 (2)	6,012,000
	EAST	2,094,000	139,000	43 (2)	2,233,000
EVAPORATOR BOTTOMS	WEST	4,637,000	878,000		5,515,000
	EAST	4,733,000	550,000		5,283,000
SECOND CYCLE & 221 SLUDGE	WEST	1,682,000	0	1,183 (3)	1,682,000
	EAST	1,330,000	0	1,023 (3)	1,330,000
REDOX		12,313,000	1,875,000	1,234 (4)	16,188,000
TBP	WEST	4,087,000	69,000	10 (5)	4,156,000
	EAST	9,173,510	1,382,000	335 (5)	10,555,000
UNAVAILABLE FREE SPACE			5,100,000		5,100,000
TOTAL		51,972,000	22,963,000		74,923,000

* TOTAL OF ALL TANKS:

(1) AT 4300 GALS. OF METAL WASTE PER TON PROCESSED.
(2) AT 3200 GALS. OF FIRST CYCLE WASTE PER RUN PROCESSED.
(3) AT [illegible] GALS. OF SECOND CYCLE AND 221 SLUDGE PER RUN PROCESSED.
(4) AT 13300 GALS. OF WASTE PER TON PROCESSED.
(5) AT 7200 GALS. OF WASTE PER TON PROCESSED.

REMARKS:

[redacted]

A-220

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. % REMAINING	REMARKS
AREFARM							
101	EB	530	[illegible]		[illegible]	[illegible]	
102	EB	530	530				
103	EB	530(554)	[illegible]				
104	EB	530	[illegible]	309	[illegible]	[illegible]	
105	EB	530	526	28	[illegible]	[illegible]	
106	TBP	530 (519)	526	337	[illegible]	[illegible]	
107	1-C-EB	530	[illegible]	[illegible]	[illegible]	[illegible]	
108	1-C	530	[illegible]	[illegible]	[illegible]	[illegible]	
109	EB	530(527)	[illegible]	[illegible]	[illegible]	[illegible]	
110-1C-2C-	5-6-EB	530	[illegible]	335			
111 1C-2C-	5-6-EB	530	[illegible]	335			
112 1C-2C-	5-6	540	[illegible]	0	[illegible]	[illegible]	
201 MW	224	54.5	51.5	54.5			
202 MW	224	54.5	51.5	25.0			Contaminated with (1)
203 MW	224	54.5	51.5	54.5			
204 MW	224	54.5	51.5	54.5			

** For sludge.
(1) [illegible]

U C FARM							
101	TBP	530	530		20	TBP	Overflow partially plugged
102	TBP	530	530				
103	TBP	530(560)	560				
104	MW	530	[illegible]		35 (*)		Supernatant supply [illegible]
105	TBP	530	526		[illegible]	TBP	
106	TBP	530 (519)	530		[illegible]	TBP	
107	1C-TBP	530	[illegible]	300			Overflow to 108 C plugged
108	1C-TBP	530	31,[illegible]06	34			
109	1C-TBP	530(521)	30-511	13			
110	1C-TBP	530(535)	[illegible]	231			
111	1C-TBP	530(535)	[illegible]	36			
112	1C-TBP	530 (513)	[illegible]	13	53	TBP	
201	MW	54.5	[illegible]		[illegible]		
202	MW	54.5	[illegible]		[illegible]		
203	MW	54.5	[illegible]		[illegible]		
204	MW	54.5	[illegible]	[illegible]	[illegible]		

* MW - METAL WASTE
[illegible] - [illegible] WASTE
1C - SECOND 2 CYC WASTE
[illegible] - [illegible] WASTE
224 - 224 BLDG. WASTE
TBP-TI - WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE

[redacted]

A-221

RPP-13300, Rev. 0

[redacted]

HW- 38412

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
BX FARM							
101	MW	530	0		530	84	
102	MW	530	0		530	84	
103	MW	530	0		530	84	
104	MW	530	145	7	385(U)		Slurry storage while sluicing 105-BX with 221-U inoperative
105	MW	530	54	5	476(U)		Active sluicing tank
106	MW	530	1		529(U)		
107	IC-TBP	530	437-93	437			
108	IC-TBP	530	IC-520	10			
109	IC-TBP	530(519)	520	334	[illegible]	[illegible]	
110	IC-EB	530	235-294	234			
111	IC-EB	530	73-457	32			
112	IC-EB	530	32C-73	230	147(U-C)	84	Spare for TBP scvg. waste.
BY FARM							
101	MW	758	0		758	120	
102	MW	758	0		758	120	
103	MW	758 (747)	0		747	119	
104	MW	758	0		[illegible]	120	
105	TBP	758	399	34(Est.)	359	TBP	Recvd. from 107 & 110-BY
106	TBP	758	35		723	TBP	For TBP scvg. sludge.
107	IC-TBP	756	1-34	1	77[illegible]	TBP	Scvg. waste receiver.
108	TBP	756	1-37	0	[illegible]	TBP	Scvg. waste receiver.
109	MW	756 (747)	477		270(U)		Supernatant pump tank.
110	TBP	758	261	50	497	TBP	Scvg. waste receiver.
111	MW	758	24		734(U)		
112	MW	758 (747)	3		744(U)		
T FARM							
101	MW	530	0		530	84	
102	MW	530	0		530	84	
103	MW	530 (519)	0		519	82	
104	I-C	530	540	525			
105	I-C-CW	530	188-0	188	342	876	To receive coating waste on 1-1-52.
106	I-C	530(519)	510	10			
107	I-C-TBP	530	301-303	301	6	[illegible]	
108	IC-TBP-EB	530(532)	72-6-151	21			
109	IC-TBP-EB	530(533)	51-3	0			

W-2772, 2-M (3-54)

[redacted]

A-222

RPP-13300, Rev. 0

[redacted]

HW- [illegible]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GALS.	RESERVE CAP. IN BATCHES	REMARKS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible] of sludge.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	(2) Plant active 2nd cycle
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	(and 224 waste cascade to
							[illegible]b.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible] FARM SLUDGE							
[illegible] FARM							
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]		[illegible] (II)		HW out on 12-13-54
[illegible]	[illegible]	[illegible]	[illegible]		[illegible] (II)		HW supernatant blend to
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] (2)	Reserve cap. gained by self evaporation.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]		[illegible] (II)		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible] (II)		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible] (II)		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible] (II)		Dry, Dry flush material
[illegible] FARM							
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	72	HW in on 12-14-54
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	TRP	
[illegible]	[illegible]	[illegible]	[illegible]		[illegible] (II)		Supernatant used for blending.
[illegible]	[illegible]	[illegible]	[illegible]				Overflow partially plugge
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] (II)		Active sluicing tank.
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Build from 101-TX
[illegible]	[illegible]	[illegible] (TX-2)	[illegible]				

[redacted]

A-223

RPP-13300, Rev. 0

[redacted]

MW-36012

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
TX FARM (CONT'D.)							
113	EB	758	745	252	14	EB	
114	EB	758	739	4	19	EB	
115	MW	758 (747)	567	0	60(U)		
116	EB	758	758				
117	EB-TOPD	758	16-114		598	EB	Active 1-C bottoms tank
118	1-C	758 (747)	283		166	3.5	Resid. from 105-T
TY FARM							33.75 sludge from production test.
101	1-C	758	739	164	19	6	Scrp. waste
102	1C-EB	758 (747)	10-696	10	5	EB	
103	TBP	758	737		622	206	Reserve capacity for 1C scrapped waste.
104	EB	758 (770)	770				
105	TBP	758	758	158			
106	TBP	758	757				
S FARM							
101 (1)	R	758	758				
102	R	758	705		53	13	
103	R	758 (747)	536		211	63	
104 (1)	A	758	618		130	33	
105	R	758	728		30	9	
106	R	758 (747)	717		35	10	
107	R	758	758				Cascade nacid, etc. waste
108	R	758	758				
109	R	758 (747)	576		171	57	
110	R	758	758				
111	R	758	758				
112	R	758 (747)	675		77	26	

* MW - METAL WASTE
1 C - FIRST CYCLE WASTE
2 C - SECOND CYCLE WASTE
R - REPAIR WASTE
(1) - Self-evaporating

224 - 224 BLDG. WASTE
TBP - TBP WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE
Cu - Cladding waste

W-2702.11-M (5-94)

A-229

RPP-13300, Rev. 0

[redacted]

HW- 24112

STATUS OF WASTE FARMS

TX FARM	* TYPE OF WASTE	CAPACITY (GALLONS x 10^3)	STORAGE TOTAL (GALLONS x 10^3)	STORAGE SLUDGE (GALLONS x 10^3)	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
101 (1)	R	1000	205				
102	R	1000	202				
103	R	1000(980)	917		393	103	
104	R	1000	0		1000	303	
105	R	1000	0		1000	303	
106	R	1000(990)	92(2)		803	267	Funo header condensate receiver. Pumps to underground cavern.
107	R	1000					
108	R	1000					
109	R	1000 (980)					
110	R	1000					
111	R	1000					
112	R	1000(980)					TANKS NOT RELEASED TO OPERATIONS
113	R	1000					
114	R	1000					
115	R	1000(980)					

* MW - METAL WASTE
1C - FIRST CYCLE WASTE
2C - SECOND CYCLE WASTE
R - REDOX WASTE
(1) - Self-evaporating
(2) - Condensate

224 - 224 BLDG. WASTE
TBP - TBP WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE

[redacted]

A-225

RPP-13300/Rev. 0

RECORD CENTER FILE

HW- 38401

[redacted]

DATE July 31, 1955

COPY NO. 1. CA PRIODE
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SEPARATIONS SECTION

COPY 1 OF 1, SERIES MA

WASTE — STATUS SUMMARY

FOR JULY 1955

BY

D. E. PETERSON

SEPARATIONS — PROJECTS AND PERSONNEL DEVELOPMENT SUB — SECTION

[redacted]

[redacted] AS DEFINED

[redacted] A[redacted] PERSON IS PROHIBITED.

~~SECRET~~

HW-2902, 14-M (10-54)
AEC-GE-RICHLAND, WASH.

A-226

RPP-13300/Rev.0

[redacted]

HW-35400

PERFORMANCE FOR MONTH ENDING July 19 55.

TYPE OF WASTE	RUNS OF THIS TYPE TO STGE.	GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STORAGE/RUN
METAL	88 / 2 AW	0	418,000	4,750
1 ST CYCLE	87 / 2 AW	0	253,000	2,908
2 ND CYCLE & 224	(2-c) 88 / 2 AW (224) 84 / 2 AW	408,000	6,000	70

* SLUDGE INCREASE

	* PRODUCTION OF THIS TYPE WASTE	* GALLONS CRIBBED	GALS. INCREASE IN STORAGE	GALS. TO STGE. PER TON PROCESSED
REDOX	159.2	1,054,000	364,346 (1)	2,289
TBP	97.1	2,274,500 (2)	630,377 (5)	6,492

** RATIO OF 0.71 (3) TO THEORETICAL 9200 GALS. PER TON

EVAPORATOR	FEED			BOTTOMS MADE	CONDENSATE * TO CRIBS	% VOLUME REDUCTION
	SUPERNATANT	* BOTTOMS *	TOTAL			
EAST	0	0	0	0	0	0
WEST	0	137,000 (4)	137,000	118,000	19,000	16.1%

REMARKS:

(1) Total of all waste sent to underground storage. 151,595 gallons of space recovered by self evaporation as follows:
101-SX - 52,250 104-SX - 99,345

(2) Does not include any TBP scavenged waste.

(3) Ratio is low due to partial concentration of waste in the TBP plant.

(4) First cycle material.

(5) Actual waste from the TBP plant to the 241-BY Farm.

Total TBP scavenged waste cribbed to date:

BY Caverns - 3,335,000
BY Ditch #8 - 400,000

TOTAL = 3,735,000 gals.

W-2902, 13-M (3-54)

[redacted]

RPP-13300, Rev. 0

[redacted]

HW-38402

OVERALL STATUS AND RESERVE FOR MONTH ENDING July 19 55.

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	BATCHES RESERVE	GALLONS TOTAL
METAL	WEST	8,533,000	893,000	213 (1)	9,426,000
	EAST	157,000	4,101,500	976 (1)	4,258,500
FIRST CYCLE	WEST	4,632,000**	815,000	272 (2)	5,447,000
	EAST	2,118,500	169,000	56 (2)	2,287,500
EVAPORATOR BOTTOMS	WEST	5,523,000	750,000		6,273,000
	EAST	4,746,000	47,000		4,793,000
SECOND CYCLE & 224 SLUDGE	WEST	1,882,000	0	2,084 (3)	1,882,000
	EAST	1,357,000	463,000	1,852 (3)	1,820,000
REDOX		13,892,000	2,307,000	574 (4)	16,199,000
THP	WEST	3,885,000	82,000	12 (5)	3,967,000
	EAST	11,355,000	2,222,000	317 (5)	13,577,000
UNAVAILABLE FREE SPACE			4,997,000		4,997,000
TOTAL		58,080,500	16,846,500		74,927,000*

* TOTAL OF ALL TANKS:

(1) AT 4200 GALS. OF METAL WASTE PER TON PROCESSED.
(2) AT 3000 GALS. OF FIRST CYCLE WASTE PER RUN PROCESSED.
(3) AT 250 GALS. OF SECOND CYCLE AND 224 SLUDGE PER RUN PROCESSED.
(4) AT 2400 GALS. OF WASTE PER TON PROCESSED and excluding 106-SX tank.
(5) AT 7000 GALS. OF WASTE PER TON PROCESSED.

REMARKS:

** Includes 223,000 gallons of T Plant coating waste.

T Plant 1-C scavenged waste output to date since October 20, 1954 is 2,406,000 gallons. The volume of sludge resulting from the scavenging process to date is 465,000 gallons.

* Includes 24,000 gallons of hot-semi works waste.

A-228

[redacted]

W-2902, 12-54 (9-54)

RPP-13300, Rev. 0

[redacted]

HW-

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
H FARM							
101	EB	530	527			28	
102	EB	530	530				
103	EB	530(554)	554				
104	EB	530	537	309	-7	EB	
105	EB	530	516	28	14	EB	
106	TBP	530 (519)	426	137	93	TBP	
107	1-C-EB	530	225-305	225			
108	1-C-EB	530	65-461	65	4	EB	
109	EB	530(527)	494	127	23	EB	
110-1C-2C-	S-6	530	348	243	182	407	
111 1C-2C-	S-6	530	249	249	221	928	
112 1C-2C-	S-6	542	542	0	542	1806	
201 MW	224	54.5	54.5	54.5			
202 MW	224	54.5	54.5(1)	23.0			Cascades to auth.
203 MW	224	54.5	54.5	54.5			
204 MW	224	54.5	54.5	54.5			

(1) 224-B flush water is routed to this tank.

C FARM							
101	TBP	530	510		20	TBP	Overflow partially diverted
102	TBP	530	530				
103	TBP	530(560)	560				
104	MW	530	0		230	MW	
105	TBP	530	546		-16	TBP	
106	TBP	530 (519)	538	12	-19	TBP	
107	1C-TBP	530	299-131	349			Overflow to 1C-C diverted
108	1C-TBP	530	34-496	34			
109	1C-TBP	530(521)	10-511	10			
110	1C-TBP	530(536)	231-307	231			
111	1C-TBP	530 (536)	36-500	36			
112	1C-TBP	530 (519)	17-449	7	13	TBP	
201	Hot-Semi-Waste	54.5	54.5		20	—	
202	MW	54.5	0		54.5	MW	
203	MW	54.5	0		54.5	MW	
204	MW	54.5	0	11	54.5	MW	

MW – METAL WASTE
1C – FIRST CYCLE WASTE
2C – SECOND CYCLE WASTE
R – REDOX WASTE
224 – 224 BLDG. WASTE
TBP – TBP WASTE
EB – EVAPORATOR BOTTOMS
(U) – UNAVAILABLE FREE SPACE

[redacted]

W-298, 8-M (5-84)

A-229

RPP-13300, Rev. 0

[redacted]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. GAL.	RESERVE CAP. IN BATCHES	REMARKS
BX FARM							
101	MW	530	0		530	84	
102	MW	530	0		530	84	
103	MW	530	0		530	84	
104	MW	530	0		530	84	
105	MW	530	1		529 (4)		
106	MW	530	0		530	84	
107	IC-TBP	530	437-93	437			
108	IC-TBP	530	10-520	88			
109	TBP	530	520	525	-1	TBP	
110	IC-SB	530	236-294	234			
111	IC-SB	530	73-457	32			
112	IC-SB	530	530-71	270	129 (1-C)	20	Sludge for [illegible]
BY FARM							
101	TBP	758	750		8	TBP	
102	TBP	758	720		38	TBP	
103	TBP	758 (747)	739		8		
104	TBP	758	112		646	TBP	
105	TBP	758	202	16	556	TBP	
106	TBP	758	736	107 (est)	22	TBP	
107 *	IC-TBP	758	1-570	51	187	TBP	Scrr. waste [illegible]
108	TBP	758	140	98	618	TBP	Scrr. waste [illegible]
109	MW	758 (747)	153		594 (4)		Sluiting to [illegible]
110	TBP	758	729	90	29	TBP	Scrr. waste [illegible]
111	MW	758	0		758	MW	
112	MW	758 (747)	3		744 (4)		Sluiting.
T FARM							
101	MW	530	530				
102	MW	530	530				
103	MW	530 (521)	521				
104	I-C	530	530	525			
105	I-C-SW	530	122-322	155	119	457**	
106	I-C	530 (519)	16	16	509	1957**	
107	I-C-TBP	530	201-323	201	6	TBP	
108	IC-TBP-ER	530 (532)	73-8-451	31			
109	IC-TBP-LR	530 (543)	543	0			

* Receiving TBP waste at month-end.

** in tons uranium.

W-2902, 9-M (1-54)

[redacted]

A-230

RPP-13300, Rev. 0

[redacted]

HW- 38101

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
T FARM							
110 S-6	224 IC	530	530	530			
111 S-6	224-IC	530	530	408	122	488	
112 S-6	224-IC	569	569	170	399	1596	Cascades to crib.
201	224	54.5	545	54.5			
202	224	54.5	545	54.5			
203	224	54.5	545	54.5			
204	224	54.5	545	54.5			
* * FOR SLUDGE							
U FARM							
101	MW	530	30	30	500(4)		Sluicing tank.
102	MW	530 (519)	542				
103	MW	530 (519)	519				
104	MW	530	530				
105	MW	519	519				
106	MW	530 (519)	120		399(4)		Supernatant from 101-U
107	MW	530	543		-13	-2	
108	MW	530	552		-22	-3	
109	MW	530 (519)	490		39	4	
110	IC-R	530	329	329	201	0	
111	IC-R	530	15-515	14			
112	IC-R	530(514)	47-466	320			
201	R	54.5	0		545(4)		
202	R	54.5	0		545(4)		
203	R	54.5	0		545(4)		
204	R-IC	54.5	25		195(4)		Div. Box flush materia
TX FARM							
101	MW	754	707		51	7	Overflow partially plugg
102	MW	754	758				
103	TRP	754	682		76	TRP	
104	MW	754	76		662(4)		Supernatant for blending
105	MW	754	35	35	723(4)		Sluicing.
106	MW	754	510		248(4)		Supernatant for blending
107	MW	754	662		96	25	In tank U
108	MW	754	6		752	196	In tank U
109	1-C-TRP	754	732-82	650			
110	1-C-TRP	754	117-645	10			
111	1-C-TRP	754	107-655	88			
112	CW	754 (752)	752				

[redacted] A-231

W-2902, 10-M (1-74)

RPP-13300, Rev. 0

[redacted] HW-30202

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN INCHES	REMARKS
TX FARM (CONTD.)							
113	EB	758	753	252	5	EB	
114	EB	758	739	4	19	EB	
115	MW	758 (747)	332	0	415(4)		Supernatant hold-up tank.
116	EB	758	758				
117	EB-ICEB	758	46-547		165	ICEB	to be decant tk. for scvg. wa
119	ICEB	758 (747)	186		561	ICEB	to be feed tank for scvg. wa
TY FARM							
101	1-C	758	579	995	179	60 runs	for 1-C scvg. waste.
102	IC-EB	758	10-748				
103	1-C	758	750	196	8	3 runs	for 1-C scvg. waste.
104	TBP-IC	758	20-738	74			to be pumped to TY #1 cement
105	TBP	758	758	155			
106	TBP	758	758				
S FARM							
101	R (1)	758	725		33	13	
102	R	758 (752)	715		43	13	
103	R	758	752				
104	R (1)	758	769		-11		Cascade receiving ctg. waste.
105	R	758	723		35	892*	
106	R	758 (747)	537		208		
107	R	758	758				
108	R	758	758				
109	R	758 (747)	747				
110	R	758	758				
111	R	758	758				
112	R	758 (747)	695		52	16	

MW - METAL WASTE
1 C - FIRST CYCLE WASTE
2 C - SECOND CYCLE WASTE
N - NEDOX WASTE

224 - 224 CLOG. WASTE
TBP - TOP WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE

(1) Self-evaporating - 101-S practically nil

* enough space for coats from 892-TU

RPP-13300, Rev. 0

[redacted]

MW- 38[illegible]

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
SX FARM							
101 (1)	R	1000	601		399	186	low salt waste.
102	R	1000	980		20	9	" " "
103	R	1000(960)	824		136	73	" " "
104 (1)	R	1000	994		6	3	present receiver
105	R	1000	764		236	110	presently being filled
106	R	1000(960)	51		929		condensate collector
107	R	1000					Tanks not released to Operations.
108	R	1000					
109	R	1000(960)					
110	R	1000					
111	R	1000					
112	R	1000(960)					
113	R	1000					
114	R	1000					
115	R	1000(960)					

MW – METAL WASTE
1C – FIRST CYCLE WASTE
2C – SECOND CYCLE WASTE
R – REDOX WASTE

224 – 224 BLDG. WASTE
TBP – TBP WASTE
EB – EVAPORATOR BOTTOMS
(U) – UNAVAILABLE FREE SPACE

[redacted]

W-290E, 15-M (5-54) [illegible]

A-233

RPP-13300 Rev. 0 [redacted]

HW-74647

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August 8, 1962

CHEMICAL PROCESSING DEPARTMENT
WASTE STATUS SUMMARY
January 1, 1962 Through June 30, 1962

By

R. E. Roberts

PLANNING AND SCHEDULING
PRODUCTION OPERATION

HANFORD ATOMIC PRODUCTS OPERATION
RICHLAND, WASHINGTON

PRELIMINARY REPORT

"This report was prepared only for use within General Electric Company in the course of work under Atomic Energy Commission Contract W-31-109-Eng-52. Any views or opinions expressed in the report are those of the authors only."

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[redacted]

A-234

RPP-13302, Rev. 0

[redacted]

AFTER FILL-IN

HW - 74647

PERFORMANCE FOR PERIOD ENDING June 30, 1962

PLANT PERFORMANCE

	PRODUCTION OF THIS TYPE WASTE	GALLONS CRIBBED	GALLONS TO STORAGE	GALLONS TO STORAGE PER TON PROCESSED
REDOX	508	3,129,000	606,000	1,193
PUREX	2,241	106,259,000	3,265,000	1,457

SELF-CONCENTRATION

TANK	GALLONS	CUMULATIVE GALLONS	TANK	GALLONS	CUMULATIVE GALLONS
101-A	49,000	3,991,000	107-SX	0	908,000
102-A	41,000	6,226,000	108-SX	0	960,000
103-A	0	3,693,000	109-SX	447,000	591,000
104-A	1,147,000	8,073,000	110-SX	0	590,000
106-A	1,386,000	1,730,000	111-SX	0	1,060,000
Total	2,623,000	23,713,000	112-SX	84,000	845,000
101-SX	0	1,404,000	113-SX 114-SX	0 14,000	77,000 1,071,000
103-SX	33,000	44,000	115-SX	0	771,000
104-SX	4,000	988,000	Total	582,000	9,309,000

RUTHENIUM AND IODINE - 131 STACK EMISSIONS - CURIES PER DAY

PERIOD	RUTHENIUM		IODINE - 131			
	REDOX		PUREX		REDOX	
	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE

[redacted]

AFTER FILL-IN

HM-8610-006 (7-58) SEE OF HIGHLAND, WASH.

A-235

RPP-13300, Rev. 0

[redacted]

AFTER FILL-IN

HW - 74647

OVERALL STATUS AND RESERVE FOR PERIOD ENDING June 30, 1962.

TYPE OF WASTE		GALS. IN STORAGE AT END OF MONTH	GALLONS RESERVE	LATCHES RESERVE	GALLONS TOTAL
PUREX		4,779,000	2,016,000	-	6,795,000
RECOX		19,741,000	11,088,000	-	30,829,000
COATING	WEST	3,199,000	2,505,000	11,929(1)	5,704,000
	EAST	8,867,000	6,459,000	23,922(2)	15,326,000
FISSION PRODUCTS	WEST	NONE	NONE		NONE
	EAST	74,000	1,448,000		1,522,000
ORGANIC WASH		633,000 **	270,000		903,000
FIRST CYCLE	WEST	3,410,000	NONE		3,410,000
	EAST	2,020,000	NONE		2,020,000
SECOND CYCLE	WEST	1,740,000	NONE		1,740,000
	EAST	1,337,000	NONE		1,337,000
EVAPORATOR BOTTOMS	WEST	5,314,000	56,000		5,370,000
	EAST	2,459,000	103,000		2,562,000
TBP	WEST	4,892,000 ***	370,000		5,271,000
	EAST	4,159,000	NONE		4,159,000
UNAVAILABLE FREE SPACE			3,159,000		3,159,000
TOTAL		62,624,000	27,483,000		90,107,000 *

* TOTAL OF ALL TANKS

(1) AT 2.0 GALS. OF WASTE PER TON PROCESSED

(2) AT 27.0 GALS. OF WASTE PER TON PROCESSED

REMARKS:

** Includes 320,000 gallons of waste from Hot Semiworks and HLO.

*** Includes 950,000 gallons of decontamination waste.

[redacted]

AFTER FILL-IN

BM-6610-018 (6 - 57)

A-236

RPP-43300, Rev. 0

[redacted]
AFTER FILL-IN

HW-74647

STATUS OF WASTE FARMS

	* TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
B FARM							
101	EB	530	403	315	127	CW	
102	EB	530	123	84	407	CW	Latest electrode reading.
103	EB	530	222	227	308	CW	New electrode.
104	EB	530	546	530	-16	EB	
105	EB	530	491	490	39	EB	
106	TBP-HLO	530	178-137	167	215	HLO	Rec'd 11M HLO waste
107	IC - EB	530	225-46	261	259	CW	
108	IC - EB	530	65-63	114	402	CW	
109	EB	530	79	70	451	CW	
110	5-6	530	532	243	-2	CW	
111	5-6	530	554	161	-24	CW	68M from B-Plant
112	5-6	542	35	35	507	CW	
201	224	54.5	50.0	54.5	4.5	CW	
202	224	54.5	54.5	25.0	0	CW	7.5M from 221-B
203	224	54.5	56.0	54.5	-1.5	CW	
204	224	54.5	56.0	54.5	-1.5	CW	
C FARM							
101	TBP-CW	530	131-393	90	6	CW	Rec'd 214M; 699M to BX
102	CW	530	356		174	CW	
103	CW	530	227		303	CW	
104	TBP-CW	530	45-493	46	-8	CW	Latest electrode reading
105	TBP-CW	530	79-440		11	CW	" " "
106	TPB-F-CW	530	43-63-421	29	3	CW	
107	CW	530	384	375	146	CW	Rec'd 468M; 567M to BY
108	CW	530	486	79	44	CW	
109	EB-CW-FP	530	112-300-21	90	97	FP	137M to BY; Rec'd 21M HS
110	IC-OWW	530	231-279	231	20	OWW	
111	EB-CW	530	88-257	95	185	CW	
112	TBP-CW-FP	530	136-319-53	46	22	FP	22M from HS
201	HOT-SEMI	54.5	56		-1.5	HS	
202	HOT-SEMI	54.5	56		-1.5	HS	
[illegible]	HOT-SEMI	54.5	34		20.5	HS	
204	HOT-SEMI	54.5	37	11	-17.5	HS	

IC - FIRST CYCLE WASTE
2C - SECOND CYCLE WASTE
R - REDOX WASTE
CW - COATING WASTE
FP- Fission Products

224 - 224 BLDG. WASTE
TBP-TBP WASTE
EB - EVAPORATOR BOTTOMS
(U) - UNAVAILABLE FREE SPACE
HLO- HANFORD LABORATORIES WASTE

BPS-6610-002 (2-60) [illegible]

[redacted]
AFTER FILL-IN

A-237

RPP-13300, Rev. 0

[redacted]

AFTER FILL-IN

HW-74647

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
BX FARM							
101	TBP-CW	530	226-320		-16	CW	399M from 102-C & 103-C
102	TBP-CW	530	59-300		171	CW	300M from 102-C & 103-C
103	TBP	530	54		476	CW	
104	TBP	530	62		468	FP	
105	TBP	530	101		429	FP	
106	TBP	530	98		432	FP	
107	IC-TBP	530	437-126	437	-33	CW	Latest electrode reading
108	IC-TBP	530	10-80	80	440	CW	
109	TBP	530	301	298	229	CW	
110	IC-EB	530	236-156	326	138	CW	Latest electrode reading
111	IC	530	57	51	473	CW	
112	IC-EB	530	320-130	287	80	EB	
BY FARM							
101	TBP-IC-CW	758	247-439-42		30	CW	
102	TBP	758	51	18	707	CW	
103	TBP-P	758	26-699		33	P	Latest electrode reading
104	TBP-CW	758	565-152	244	41	CW	14M from 107-C
105	TBP-CW	758	428-283	213	47	CW	
106	TBP-CW	758	249-374	111	135	CW	118M from 107-C
107	TBP-CW	758	172-564	150	22	CW	
108	TBP-CW	758	244-462	210	52	CW	
109	TBP-CW	758	51-572	46	135	CW	435M from 107-C; 137M from 10[illegible]
110	TBP-CW	758	224-484	210	50	CW	
111	OWW-CW	758	34-680	26	44	CW	
112	TBP-CW	758	183-558		17	CW	
T FARM							
101	CW	530	51		479	CW	
102	CW	530	0		530	CW	
103	CW	530	18		512	CW	
104	I-C	530	535	525	-5	CW	Latest electrode reading
105	I-C-CW	530	188-328	188	14	CW	
106	CW	530	221	10	309	CW	
107	I-C-TBP	530	201-318	201	11	TBP	
108	IC-EB	530	81-441	29	8	EB	
109	EB	530	541	54	-11	EB	

[redacted]

AFTER FILL-IN

BM-6610-001 (2-60)

RPP-13300, Rev. 0

[redacted]

HW- 74647

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 100U GAL.	RESERVE CAP. IN BATCHES	REMARKS
T FARM							
110	224-2C	530	524	46	6	CW	221-T waste cascades
111	224-2C	530	524	510	6	CW	from 111-T to 112-T
112	224-2C	560	442	170	127	CW	and then pumped to TY crib.
201	224	54.5	53	53	1.5	CW	
202	224	54.5	54	54	0.5	CW	
203	224	54.5	54	54	0.5	CW	
204	224	54.5	54	54	0.5	CW	
U FARM							
101	R	530	29		501	U	
102	R	530	466		64	R	
103	R	530	530		0	R	
104	R	530	64		466	U	
105	R-CW	530	175-322		33	CW	
106	R	530	505		25	R	
107	CW	530	508		22	CW	Latest electrode readin
108	CW	530	295		235	CW	" " "
109	CW	530	442		88	CW	
110	1 C CW	530	311-194	311	25	CW	Latest electrode readin
111	1 C-R	530	15-501	15	14	R	
112	1 C-R	530	48-501	32	-19	R	
201	CW	54.5	49		5.5	CW	
202	CW	54.5	51		3.5	CW	
203	CW	54.5	46		8.5	CW	
204	2C-CW	54.5	35-15		4.5	CW	
TX FARM							
101	R	756	10		748	R	
102	R	756	23		735	R	Latest electrode readi
103	TBP	756	681		77	TBP	" " "
104	R	756	32		726	R	" " "
105	R	756	301		457	R	
106	R	756	29		729	R	
107	R	756	9		749	R	
108	TBP	756	428		330	R	
109	1 C-TBP	756	722-25	722	11	TBP	Latest electrode readi
110	1 C-TBP	756	113-649	1	-4	TBP	
111	1 C-TBP	756	103-655		0	TBP	
112	EB	756	750		8	EB	

[redacted]

BM-6610-005 (6-57)
GOODS HIGHLAND, WASH.

A-239

RPP-13300, Rev. 0

[redacted]
AFTER FILL-IN

HW-74647

STATUS OF WASTE FARMS

	TYPE OF WASTE	GALLONS X 10³ CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE CAP. 1000 GAL.	RESERVE CAP. IN BATCHES	REMARKS
TX FARM (CONT'D.)							
113	1C-EB	758	252-508	142	-2	EB	
114	EB	758	741	15	17	EB	
115	R	758	18	0	740	R	
116	EB	758	769	386	-11	EB	
117	EB	758	700		58	EB	
118	EB-DW	758	95-481		182	DW	Rec'd 112M
TY FARM							
101	1C-TBP	758	293-404	178	61	TBP	Latest electrode reading
102	EB	758	769	10	-11	EB	
103	1C-TBP-DW	758	290-220-229	220	19	DW	Latest electrode reading
104	TBP-1C-DW	758	238-258-240	74	22	DW	
105	TBP	758	307		451	U	
106	TBP	758	17		741	U	
R FARM							
101	R	758	755		3	R	Latest electrode reading
102	R	758	733		25	R	
103	R	758	747		11	R	
104	R	758	714		44	R	
105	R	758	717		41	R	
106	R	758	747		11	R	
107	CW	758	659		99	CW	Rec'd 99M CW
108	R	758	755		3	R	
109	R	756	761		-3	R	
110	R	758	774		-16	R	
111	R	758	755		3	R	
112	R	758	777		-19	R	

1 C – FIRST CYCLE WASTE
2 C – SECOND CYCLE WASTE
R – REDOX WASTE
CW – COATING WASTE
DW – Decontamination Waste

224-224-B, DO. WASTE
TBP – TBP WASTE
EB – EVAPORATOR BOTTOMS
(U) – UNAVAILABLE FREE SPACE

[redacted]
AFTER FILL-IN

BM-6610-004 (2-60)

A-740

RPP-13300, Rev. 0

[redacted]

HW- 74647

STATUS OF WASTE FARMS

	* TYPE OF WASTE	GALLONS X 10^3 CAPACITY	STORAGE TOTAL	STORAGE SLUDGE	RESERVE 1000 GAL.	TEMP. °F S **	TEMP. °F L **	REMARKS
SX FARM								
101 (1)	R	1000	442		558			
102	R	1000	850		150			532M out; 738M from 103-SX
103	R	1000	740		260			738M to 102-SX; 665M from 108-SX
104 (1)	R	1000	726		274			
105	R	1000	898		102			
106	R	1000	110		890			
107 (1)	R	1000	648		352			
108 (1)	R	1000	315		685			665M to 103-SX
109 ***(1)	R	1000	486		514			Rec'd 507M; 89M from 102-SX
110 (1)	R	1000	706		294			113M from 102-SX
111 (1)	R	1000	686		314			
112 (1)	R	1000	719		281			331M from 102-SX
113	R	1000	0		1000 U			
114 (1)	R	1000	312		608			
115 (1)	R	1000	675		325			
A FARM								
101 (1)	P	1000	861		139	300	264	
102 (1)	P	1000	847		153	379	309	
103	P	1000	325		675	239	219	283M to 105-A
104 (1)	P	1000	952		48	235	228	Rec'd 1213M carbonate waste
105	P	1000	333		667	-	-	283M from 103-A
106 ***(1)	P	1000	699		301	-	-	Rec'd 1370M

**
S – TEMPERATURE OF SLUDGE APPROXIMATELY THREE INCHES OFF THE TANK BOTTOM.
L – TEMPERATURE OF LIQUID APPROXIMATELY FIVE FEET OFF THE TANK BOTTOM.

*** RECEIVING AT MONTH-END.

(1) SELF-CONCENTRATING.

*
1C – FIRST CYCLE WASTE
2C – SECOND CYCLE WASTE
224 – 224 BLDG. WASTE
CW – COATING WASTE
EB – EVAPORATOR BOTTOMS
FP – FISSION PRODUCT WASTE
OWW – ORGANIC WASH WASTE
P – PUREX WASTE
R – REDOX WASTE
TBP – TBP WASTE
(U) – UNAVAILABLE FREE SPACE

[redacted]
AFTER FILL-IN

SM-6610-411 (7-56)

A-241

APPENDIX B

WHC-MR-0132, A HISTORY OF THE 200 AREA TANK FARMS

TANKS 241-B-201 THROUGH 241-B-204

AND

TANKS 241-T-201 THROUGH 241-T-204

Waste Status Summary of 201-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1944					
2					
3					
4					
1-1945					
2					
3					
4					
1-1946					
2					
3					
4					
1-1947					
2					
3					
4					
1-1948					
2					
3					
4					
1-1949					
2					
3					
4					
1-1950					
2					
3					
4					
1-1951					
2					
3					
4					
1-1952	224	54.5	---	---	Active cascade to crib
2	224	54.5	---	---	Active cascade to crib
3	224	54.5	---	---	Active cascade to crib
4	224-MW	54.5	---	---	Active cascade to crib

Waste Status Summary of 201-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1953	224-MW	54.5	---	---	Receives B plant flushes
2	224-MW	54.5	0	54.5	
3	224-MW	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1954	224	54.5	0	54.5	
2	224	54.5	0	54.5	
3	224	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1955	224	54.5	0	54.5	
2	224	54.5	0	54.5	
3	224	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1956	224	54.5	0	54.5	
2	224	54.5	0	54.5	
3	224	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1957	224	53	0	54.5	Latest electrode reading
2	224	53	0	54.5	
3	224	53	24.5	28.5	
4	224	53	24.5	28.5	
1-1958	224	53	24.5	28.5	
2	224	53	24.5	28.5	
3	224	53	29.5	23.5	
4	224	51	22.5	28.5	Latest electrode reading
1-1959	224	51	22.5	28.5	
2	224	51	22.5	28.5	New electrode
3	224	51	22.5	28.5	
4	224	52	0	54.5	
1-1960	224	52	0	54.5	
2	224	52	0	54.5	
3	224	52	0	54.5	
4	224	52	0	54.5	
1-1961	224	---	0	54.5	
2	224	50	0	54.5	
3	224	50	0	54.5	
4	224	50	0	54.5	

Waste Status Summary of 201-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1962	224	50	0	54.5	
2	224	50	0	54.5	
3	224	---	---	---	
4	224	51	1	50	
1-1963	224	51	1	50	
2	224	51	1	50	
3	224	---	---	50	
4	224	53	3	50	Latest electrode reading
1-1964	224	53	3	50	
2	224	53	3	50	
3	224	53	3	50	
4	224	53	3	50	
1-1965	---	---	---	50	
2	224	56	6	50	
3	224	56	6	50	
4	224	56	6	50	
1-1966	224	56	6	50	
2	224	56	6	50	
3	224	56	6	50	
4	224	56	6	50	
1-1967	224	56	6	50	
2	224	56	6	50	
3	224	56	6	50	
4	224	56	6	50	
1-1968	224	55	5	50	
2	224	55	5	50	
3	224	55	5	50	
4	224	55	5	50	
1-1969	224	55	5	50	
2	224	55	5	50	
3	224	55	5	50	
4	224	55	5	50	
1-1970	224	55	25	30	
2	224	55	25	30	
3	224	55	25	30	
4	224	54	24	30	

Waste Status Summary of 201-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1971	224	54	24	30	
2	224	33	3	30	22 to 106-B
3	224	33	3	30	
4	224	33	3	30	
1-1972	224	33	7	26	
2	224	33	7	26	
3	224	33	7	26	
4	224	33	7	26	
1-1973	224	33	7	26	Suspect leaker
2	224	33	7	26	Suspect leaker
3	224	33	7	26	Suspect leaker
4	224	33	7	26	Suspect leaker
1-1974	224	32	6	26	Suspect leaker, 1 to 109-B
2	224	31	5	26	Suspect leaker, 2 to 109-B
3	224	29	3	26	Suspect leaker, 4 to 109-B
4	---	29	0	29	Suspect leaker, 4 water, 6 to 109-B
1-1975	---	29	0	29	Suspect leaker, 2 to 102-B
2	---	29	0	29	Removed from service, 1 to 109-B
3	---	29	0	29	" " "
4	---	29	0	29	" " "
1-1976	---	29	0	29	" " "
2	---	29	0	29	
3	---	29	0	29	
4	---	29	0	29	Salt Well Comp.
1-1977	---	29	0	29	Questionable Integrity
2	---	29	0	29	
3	---	29	0	29	Inactive-Stabilized
4	---	29	0	29	Inactive Current-Stabilized Phase I

Waste Status Summary of 201-B Tank-Capacity 530,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid in Storage	Solids in Storage	Remarks
1-1978	-	29	0	29	Inactive - Primary Stabilized
2-	-	29	0	29	
3-	-	29	0	29	P-10 Pmp. Removed
4-	-	29	0	29	
1-1979	-	28	1	27	New Solids Level 1/29/79
2-	-	28	1	27	Questionable Integrity
3-	-	28	1	27	
4-	-	28	1	27	
1-1980	-	28	1	27	New Photo 2/4/80
2-	-	28	1	27	
3-	-	29	1	28	
4-	-	29	1	28	

Waste Status Summary of 202-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1944					
2					
3					
4					
1-1945					
2					
3					
4					
1-1946					
2					
3					
4					
1-1947					
2					
3					
4					
1-1948					
2					
3					
4					
1-1949					
2					
3					
4					
1-1950					
2					
3					
4					
1-1951					
2					
3					
4					
1-1952	224	54.5	---	---	Active cascade to crib
2	224	54.5	---	---	Active cascade to crib
3	224	54-5	---	---	Active cascade to crib
4	224-MW	54.5	---	---	Active cascade to crib

Waste Status Summary of 202-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1953	224-MW	54.5	---	---	Receives B plant flushes
2	224-MW	54.5	---	54.5	
3	224-MW	54.5	29.5	25.0	
4	224	54.5	29.5	25.0	
1-1954	224	54.5	29.5	25.0	
2	224	54.5	29.5	25.0	
3	224	54.5	29.5	25.0	Cascades to crib
4	224	54.5	29.5	25.0	Rec'd 5-6 water. Cascades to crib
1-1955	224	54.5	29.5	25.0	
2	224	54.5	29.5	25.0	Cascades to crib
3	224	54.5	29.5	25.0	Rec'd 224-B flush water. Cascades tc crib
4	224	54.5	29.5	25.0	
1-1956	224	54.5	29.5	25.0	
2	224	54.5	29.5	25.0	
3	224	54.5	29.5	25.0	
4	224	54.5	29.5	25.0	
1-1957	224	56	31	25.0	Latest electrode reading
2	224	56	31	25.0	
3	224	56	31	25.0	
4	224	56	31	25.0	
1-1958	224	56	31	25	
2	224	56	31	25	
3	224	56	31	25	
4	224	54	29	25	Latest electrode reading
1-1959	224	54	29	25	
2	224	54	29	25	New electrode
3	224	54	29	25	
4	224	54	29	25	
1-1960	224	54	29	25	
2	224	54	29	25	
3	224	51	26	25	
4	224	51	26	25	
1-1961	224	51	26	25	
2	224	51	26	25	
3	224	51	26	25	
4	224	51	26	25	

Waste Status Summary of 202-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1962	224	---	---	25	
2	224	54.5	29.5	25	7.5 from 221-B
3	224	---	---	25	
4	224	55	30	25	
1-1963	224	55	30	25	
2	224	55	30	25	
3	224	---	---	25	
4	224	54	29	25	Latest electrode reading
1-1964	224	54	29	25	
2	224	54	29	25	
3	224	54	29	25	
4	224	54	29	25	
1-1965	---	---	---	25	
2	224	58	33	25	
3	224	56	31	25	
4	224	56	31	25	
1-1966	224	56	31	25	
2	224	56	31	25	
3	224	56	31	25	
4	224	56	31	25	
1-1967	224	56	31	25	
2	224	56	31	25	
3	224	56	31	25	
4	224	56	31	25	
1-1968	224	56	31	25	
2	224	56	31	25	
3	224	56	31	25	
4	224	56	31	25	
1-1969	224	56	31	25	
2	224	56	31	25	
3	224	56	31	25	
4	224	56	31	25	
1-1970	224	56	27	29	
2	224	56	27	29	
3	224	56	27	29	
4	224	56	27	29	

Waste Status Summary of 202-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1971	224	56	27	29	
2	224	56	27	29	
3	224	56	27	29	
4	224	56	27	29	
1-1972	224	56	29	27	
2	224	56	29	27	
3	224	56	29	27	
4	224	56	29	27	
1-1973	224	56	29	27	
2	224	56	29	27	
3	224	56	29	27	
4	224	56	29	27	
1-1974	224	53	26	27	3 to 109-B
2	224	53	26	27	
3	224	53	26	27	
4	224	53	26	27	
1-1975	224	53	26	27	
2	224	53	26	27	
3	224	53	26	27	
4	224	53	26	27	
1-1976	224	53	26	27	
2	224	53	26	27	
3	---	53	26	27	Restricted
4	---	53	26	27	"
1-1977	---	53	26	27	Restricted
2	---	30	3	27	"
3	---	27	0	27	Inactive Current
4	---	27	0	27	" "

Waste Status Summary of 202-B Tank-Capacity 530,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid in Storage	Solids in Storage	Remarks
1-1978	-	27	0	27	Inactive
2-	-	27	0	27	
3-	-	27	0	27	
4-	-	27	0	27	
1-1979	-	27	0	27	
2-	-	27	0	27	
3-	-	27	0	27	
4-	-	27	0	27	
1-1980	-	27	0	27	New Photo 2/4/80
2-	-	27	0	27	
3-	-	28	0	28	
4-	-	28	0	28	

Waste Status Summary of 203-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1944					
2					
3					
4					
1-1945					
2					
3					
4					
1-1946					
2					
3					
4					
1-1947					
2					
3					
4					
1-1948					
2					
3					
4					
1-1949					
2					
3					
4					
1-1950					
2					
3					
4					
1-1951					
2					
3					
4					
1-1952	224	54.5	---	---	Active cascade to crib
2	224	54.5	---	---	Active cascade to crib
3	224	54.5	---	---	Active cascade to crib
4	224-MW	54.5	---	---	Active cascade to crib

Waste Status Summary of 203-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1953	224-MW	54.5	---	---	Receives B plant flushes
2	224-MW	54.5	0	54.5	
3	224-MW	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1954	224	54.5	0	54.5	
2	224	54.5	0	54.5	
3	224	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1955	224	54.5	0	54.5	
2	224	54.5	0	54.5	
3	224	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1956	224	54.5	0	54.5	
2	224	54.5	0	54.5	
3	224	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1957	224	56	1.5	54.5	Latest electrode reading
2	224	56	1.5	54.5	
3	224	56	1.5	54.5	
4	224	56	1.5	54.5	
1-1958	224	56	1.5	54.5	
2	224	56	1.5	54.5	
3	224	56	1.5	54.5	
4	224	55	0.5	54.5	Latest electrode reading
1-1959	224	55	0.5	54.5	
2	224	55	0.5	54.5	
3	224	55	0.5	54.5	
4	224	55	0.5	54.5	
1-1960	224	55	0.5	54.5	
2	224	55	0.5	54.5	
3	224	55	0.5	54.5	
4	224	55	0.5	54.5	
1-1961	224	---	---	54.5	
2	224	54	0	54.5	
3	224	54	0	54.5	
4	224	54	0	54.5	

Waste Status Summary of 203-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1962	224	---	---	54.5	
2	224	56	1.5	54.5	
3	224	56	---	---	
4	224	56	2	54	
1-1963	224	56	2	54	
2	224	56	2	54	
3	224	56	2	54	
4	224	56	2	54	Latest electrode reading
1-1964	224	---	---	54	
2	224	55	1	54	New electrode
3	224	55	1	54	
4	224	55	1	54	
1-1965	---	---	---	54	
2	224	58	4	54	
3	224	56	2	54	
4	224	56	2	54	
1-1966	224	56	2	54	
2	224	56	2	54	
3	224	56	2	54	
4	224	56	2	54	
1-1967	224	56	2	54	
2	224	56	2	54	
3	224	56	2	54	
4	224	56	2	54	
1-1968	224	56	2	54	
2	224	56	2	54	
3	224	56	2	54	
4	224	56	2	54	
1-1969	224	56	2	54	
2	224	56	2	54	
3	224	56	2	54	
4	224	56	2	54	
1-1970	224	56	7	49	
2	224	56	7	49	
3	224	56	7	49	
4	224	56	7	49	

Waste Status Summary of 203-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1971	224	56	7	49	
2	224	56	7	49	
3	224	56	7	49	
4	224	56	7	49	
1-1972	224	56	12	44	
2	224	56	12	44	
3	224	56	12	44	
4	224	56	12	44	
1-1973	224	56	12	44	
2	224	56	12	44	
3	224	56	12	44	
4	224	56	12	44	
1-1974	224	50	6	44	6 to 109-B
2	224	50	6	44	
3	224	50	6	44	
4	224	50	6	44	
1-1975	224	50	6	44	
2	224	50	6	44	
3	224	50	6	44	
4	224	50	6	44	
1-1976	224	50	6	44	
2	224	50	6	44	
3	---	50	5	45	Restricted
4	---	50	5	45	"
1-1977	---	50	5	45	Restricted
2	---	50	5	45	"
3	---	50	3	47	Inactive Current-Solid Level Adj.
4	---	50	3	47	" " " " "

Waste Status Summary of 203-B Tank-Capacity 530,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid in Storage	Solids in Storage	Remarks
1-1978	-	50	3	47	Inactive
2-	NCPLX	50	3	47	
3-	NCPLX	50	3	47	
4-	NCPLX	50	3	47	
1-1979	NCPLX	50	3	47	New Photo's 3/1/79
2-	NCPLX	50	3	47	
3-	NCPLX	50	3	47	
4-	NCPLX	50	3	47	
1-1980	NCPLX	50	3	47	New Photo 2/6/80
2-	NCPLX	50	3	47	
3-	NCPLX	50	2	48	
4-	NCPLX	50	2	48	

Waste Status Summary of 204-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1944					
2					
3					
4					
1-1945					
2					
3					
4					
1-1946					
2					
3					
4					
1-1947					
2					
3					
4					
1-1948					
2					
3					
4					
1-1949					
2					
3					
4					
1-1950					
2					
3					
4					
1-1951					
2					
3					
4					
1-1952	224	54.5	---	---	Active cascade to crib
2	224	54.5	---	---	Active cascade to crib
3	224	54.5	---	---	Active cascade to crib
4	224-MW	54.5	---	---	Active cascade to crib

Waste Status Summary of 204-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1953	224-MW	54.5	---	---	Active cascade to crib
2	224-MW	54.5	0	54.5	
3	224-MW	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1954	224	54.5	0	54.5	
2	224	54.5	0	54.5	
3	224	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1955	224	54.5	0	54.5	
2	224	54.5	0	54.5	
3	224	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1956	224	54.5	0	54.5	
2	224	54.5	0	54.5	
3	224	54.5	0	54.5	
4	224	54.5	0	54.5	
1-1957	224	56	1.5	54.5	Latest electrode reading
2	224	56	1.5	54.5	
3	224	56	1.5	54.5	
4	224	56	1.5	54.5	
1-1958	224	56	1.5	54.5	
2	224	56	1.5	54.5	
3	224	56	1.5	54.5	
4	224	55	0.5	54.5	Latest electrode readings
1-1959	224	56	1.5	54.5	Latest electrode reading
2	224	56	1.5	54.5	New electrode
3	224	56	1.5	54.5	
4	224	54	0	54	Latest electrode reading
1-1960	224	54	0	54	New electrode installed
2	224	54	0	54	
3	224	54	0	54	
4	224	54	0	54	
1-1961	224	54	0	54	
2	224	54	0	54	
3	224	54	0	54	
4	224	54	0	54	

Waste Status Summary of 204-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1962	224	---	---	54.5	
2	224	56	1.5	54.5	
3	224	56	---	54	
4	224	56	2	54	
1-1963	224	56	2	54	
2	224	56	2	54	
3	224	56	2	54	
4	224	56	2	54	Latest electrode reading
1-1964	224	---	---	54	
2	224	55	1	54	New electrode
3	224	55		54	
4	224	55		54	
1-1965	---	---	---	54	
2	224	58	4	54	
3	224	56	2	54	
4	224	56	2	54	
1-1966	224	56	2	54	
2	224	56	2	54	
3	224	56	2	54	
4	224	56	2	54	
1-1967	224	56	2	54	
2	224	56	2	54	
3	224	56	2	54	
4	224	56	2	54	
1-1968	224	56	2	54	
2	224	56	2	54	
3	224	56	2	54	
4	224	56	2	54	
1-1969	224	56	2	54	
2	224	56	2	54	
3	224	56	2	54	
4		56	2	54	
1-1970	224	56	8	48	
2	224	56	8	48	
3	224	56	8	48	
4	224	56	8	48	

Waste Status Summary of 204-B Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1971	224	56	8	48	
2	224	56	8	48	
3	224	56	8	48	
4	224	56	8	48	
1-1972	224	56	10	46	
2	224	56	10	46	
3	224	56	10	46	
4	224	56	10	46	
1-1973	224	56	10	46	
2	224	56	10	46	
3	224	56	10	46	
4	224	56	10	46	
1-1974	224	49	3	46	6 to 109-B
2	224	49	3	46	
3	224	49	3	46	
4	224	49	3	46	
1-1975	224	49	3	46	
2	224	49	3	46	
3	224	49	3	46	
4	224	49	3	46	
1-1976	224	49	3	46	Removed from Service
2	224	49	3	46	
3	---	49	3	46	Restricted
4	---	49	3	46	"
1-1977	---	49	3	46	Restricted
2	---	49	3	46	"
3	---	49	3	46	Inactive Current
4	---	49	3	46	" "

Waste Status Summary of 204-B Tank-Capacity 530,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid in Storage	Solids in Storage	Remarks
1-1978	-	49	3	46	Inactive
2-	NCPLX	49	3	46	
3-	NCPLX	49	3	46	
4-	NCPLX	49	3	46	
1-1979	NCPLX	49	3	46	
2-	NCPLX	49	3	46	
3-	NCPLX	49	3	46	
4-	NCPLX	49	3	46	New Photo 10/16/79
1-1980	NCPLX	49	3	46	
2-	NCPLX	49	3	46	
3-	NCPLX	50	3	47	
4-	NCPLX	50	3	47	

Waste Status Summary of 201-T Tank-Capacity 55,000 Gallons.

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1952	---	---	---	---	
2	224	54.5	---	---	These 4 tanks out of service 5/29/52.
3	224	54.5	---	---	
4	224	54.5	---	---	
1-1953	---	54.5	---	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1954	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1955	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1956	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1957	---	54.5	0	54.5	Estimated reading.
2	---	54.5	0	54.5	New electrode reading.
3	---	54		54.5	
4	---	54		54.5	
1-1958	224	54	.5	54.5	
2	224	54	.5	54.5	
3	224	54	.5	54.5	
4	224	54	.5	54.5	
1-1959	224	54	.5	54.5	
2	224	54	.5	54.5	
3	224	54	.5	54.5	
4	224	54	.5	54.5	

Waste Status Summary of 201-T Tank-Capacity 55,0000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1960	224	54	.5	54.5	
2	224	54	5	54.5	
3	224	54	.5	54.5	
4	224	54	.5	54.5	
1-1961	---	---	---	---	6 Month Report
2	224	54	.5	54.5	
3	---	---	---	---	
4	224	54	.5	54.5	6 Month Report
1-1962	---	---	---	---	
2	224	53	---	53	6 Month Report
3	---	---	---	---	
4	224	52	2	50	Latest electrode readings.
1-1963	---	---	---	---	6 Month Report
2	224	54	4	50	New electrode reading.
3	---	---	---	---	
4	224	54	4	50	6 Month Report
1-1964	---	---	---	---	
2	224	54	4	50	6 Month Report
3	---	---	---	---	
4	224	54	4	50	6 Month Report
1-1965	---	---	---	---	6 Month Report
2	224	53	20	33	
3	224	53	20	33	
4	224	53	20	33	
1-1966	224	53	20	33	
2	224	53	20	33	
3	224	53	20	33	
4	224	53	20	33	
1-1967	224	53	20	33	
2	224	53	20	33	
3	224	53	20	33	
4	224	53	20	33	
1-1968	224	48	15	33	
2	224	48	15	33	
3	224	48	15	33	
4	224	49	16	33	

Waste Status Summary of 201-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1969	224	53	20	33	
2	224	54	21	33	
3	224	54	21	33	
4	224	54	21	33	
1-1970	224	54	21	33	
2	224	54	21	33	
3	224	54	21	33	
4	224	54	23	31	
1-1971	224	54	23	31	
2	224	54	23	31	
3	224	54	23	31	
4	224	54	23	31	
1-1972	224	54	23	31	
2	224	54	23	31	
3	224	54	23	31	
4	224	54	23	31	
1-1973	224	54	23	31	
2	224	54	23	31	
3	224	54	23	31	
4	224	54	23	31	
1-1974	224	54	23	31	
2	224	54	23	31	
3	224	54	23	31	
4	224	54	23	31	
1-1975	224	54	23	31	
2	224	54	23	31	
3	224	54	23	31	
4	224	54	23	31	
1-1976	224	34	3	31	Removed from service 21 to 101-T
2	224	33	2	31	" " " 1 to 101-T.
3	Evap.	31	0	31	Inactive salt well pumping.
4	---	31	0	31	
1-1977	---	31	0	31	Salt Well, Pump
2	---	31	0	31	Salt Well, Pump
3	---	31	0	31	Inactive Current
4	---	31	0	31	" " " Salt Well installed

Waste Status Summary of 201-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid in Storage	Solids in Storage	Remarks
1-1978	-	28	0	28	Photo taken 2-27-78 Prim. Stabilized
2-	-	27	0	27	New Solids Level Adj. 5-31-78
4-	-	27	0	27	
1-1979	-	27	0	27	
2-	-	27	0	27	
3-	-	27	0	27	
4-	-	27	0	27	
1-1980	-	27	0	27	New Photo 3-10-80
2-	-	27	0	27	
3-	-	28	0	28	
4-	-	28	0	28	

Waste Status Summary of 202-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1952	---	---	---	---	
2	224	54.5	---	---	
3	224	54.5	---	---	
4	224	54.5	---	---	
1-1953	---	54.5	---	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1954	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1955	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1956	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1957	---	54.5	0	54.5	Estimated reading.
2	---	54.5	0	54.5	New electrode reading.
3	224	55	.5	54.5	Latest electrode reading.
4	224	55	.5	54.5	
1-1958	224	55	.5	54.5	
2	224	55	.5	54.5	
3	224	55	.5	54.5	
4	224	55	.5	54.5	
1-1959	224	56	1.5	54.5	
2	224	55	.5	54.5	
3	224	55	.5	54.5	
4	224	55	.5	54.5	

Waste Status Summary of 202-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1960	224	55	.5	54.5	
2	224	55	.5	54.5	
3	224	55	.5	54.5	
4	224	55	.5	54.5	
1-1961	---	---	---	---	
2	224	55	.5	54.5	6 Month Report
3	---	---	---	---	" " "
4	224	55	.5	54.5	
1-1962	---	---	---	---	" " "
2	224	54	---	54	
3	---	---	---	---	
4	224	53	3	50	Latest electrode readings.
1-1963	---	---	---	---	
2	224	53	3	50	New electrode reading.
3	---	---	---	---	6 Month Report
4	224	53	3	50	
1-1964	---	---	---	---	" " " "
2	224	53	3	50	
3	---	---	---	---	" " " "
4	224	53	3	50	
					" " " "
1-1965	---	---	---	---	
2	224	52	22	30	
3	224	52	22	30	
4	224	52	22	30	
1-1966	224	52	22	30	
2	224	52	22	30	
3	224	52	22	30	
4	224	52	22	30	
1-1967	224	52	22	30	
2	224	52	22	30	
3	224	52	22	30	
4	224	52	22	30	
1-1968	224	51	21	30	
2	224	51	21	30	
3	224	51	21	30	
4	224	51	21	30	

Waste Status Summary of 202-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1969	224	51	21	30	
2	224	51	21	30	
3	224	51	21	30	
4	224	51	21	30	
1-1970	224	51	21	30	
2	224	51	21	30	
3	224	51	21	30	
4	224	51	21	30	
1-1971	224	51	21	30	
2	224	51	21	30	
3	224	51	21	30	
4	224	51	21	30	
1-1972	224	51	21	30	
2	224	51	21	30	
3	224	51	21	30	
4	224	51	21	30	
1-1973	224	51	21	30	
2	224	51	21	30	
3	224	51	21	30	
4	224	51	21	30	
1-1974	224	51	21	30	
2	224	51	21	30	
3	224	51	21	30	
4	224	51	21	30	
1-1975	224	51	21	30	
2	224	51	21	30	
3	224	51	21	30	
4	224	51	21	30	
1-1976	---	25	0	25	Removed from service 27 to 101-T
2	---	25	0	25	" " " 1 to 101-T.
3	---	25	0	25	Inactive salt well pumping.
4	---	25	0	25	
1-1977	---	25	0	25	Salt Well, Pump
2	---	25	0	25	Inactive, current
3	---	25	0	25	" " "
4	---	25	0	25	" " " Salt Well Installed

Waste Status Summary of 202-T Tank-Capacity 50,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid in Storage	Solids in Storage	Remarks
1-1978	-	20	0	20	Prim. Stabl., Photo taken 2-27-78
2-	-	20	0	20	Solids Level taken 1-31-
3-	-	20	0	20	
4-	-	20	0	20	
1-1979	-	20	0	20	
2-	-	20	0	20	
3-	-	20	0	20	
4-	-	20	0	20	New Photo 10-12-79
1-1980	-	20	0	20	
2-	-	20	0	20	
3-	-	21	0	21	
4-	-	21	0	21	

Waste Status Summary of 203-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1952	---	---	---	---	
2	224	54.5	---	---	
3	224	54.5	---	---	
4	224	54.5	---	---	
1-1953	---	54.5	---	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1954	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1955	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1956	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1957	---	54.5	0	54.5	Estimated reading.
2	---	54.5	0	54.5	New electrode reading.
3	224	55	.5	54.5	Latest electrode reading.
4	224	55	.5	54.5	
1-1958	224	55	.5	54.5	
2	224	55	.5	54.5	
3	224	55	0	55	
4	224	55	.5	54.5	
1-1959	224	55	.5	54.5	
2	224	55	.5	54.5	
3	224	55	.5	54.5	
4	224	55	.5	54.5	

Waste Status Summary of 203-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1960	224	55	.5	54.5	
2	224	55	.5	54.5	
3	224	55	.5	54.5	
4	224	55	.5	54.5	
1-1961	---	---	---	---	
2	224	55	.5	54.5	6 Month Report
3	---	---	---	---	" " " "
4	224	55	.5	54.5	
1-1962	---	---	---	---	" " " "
2	224	54	---	54	
3	---	---	---	---	" " " "
4	224	53	3	50	Latest electrode reading.
1-1963	---	---	---	---	
2	224	53	3	50	New electrode reading.
3	---	---	---	---	
4	224	53	3	50	6 Month Report
1-1964	---	---	---	---	" " " "
2	224	53	3	50	
3	---	---	---	---	" " " "
4	224	53	3	50	
1-1965	---	---	---	---	" " " "
2	224	52	17	35	
3	224	52	17	35	
4	224	52	17	35	
1-1966	224	52	17	35	
2	224	52	17	35	
3	224	52	17	35	
4	224	52	17	35	
1-1967	224	52	17	35	
2	224	52	17	35	
3	224	52	17	35	
4	224	51	16	35	
1-1968	224	47	12	35	
2	224	51	16	35	
3	224	51	16	35	
4	224	51	16	35	

Waste Status Summary of 203-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1969	224	51	16	35	
2	224	51	16	35	
3	224	51	16	35	
4	224	51	16	35	
1-1970	224	51	16	35	
2	224	51	16	35	
3	224	51	16	35	
4	224	51	16	35	
1-1971	224	51	16	35	
2	224	51	16	35	
3	224	51	16	35	
4	224	51	16	35	
1-1972	224	51	16	35	
2	224	51	16	35	
3	224	51	16	35	
4	224	51	16	35	
1-1973	224	51	16	35	
2	224	51	16	35	
3	224	51	16	35	
4	224	51	16	35	
1-1974	224	51	16	35	
2	224	51	16	35	
3	224	51	16	35	
4	224	51	16	35	
1-1975	224	51	17	35	
2	224	51	17	35	
3	224	51	17	35	
4	224	51	17	35	
1-1976	224	50	15	35	Removed from service 1 to 101-T.
2	224	42	7	35	" " " 1 to 101-T.
3	Evap.	41	6	35	Inactive salt well pumping.
4	Evap.	40	5	35	
1-1977	Evap.	39	4	35	Salt Well, Pumping
2	Evap.	38	3	35	" " " "
3	Evap.	36	3	35	" " " "
4	Evap.	36	1	35	Salt Well Installed

Waste Status Summary of 203-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid in Storage	Solids in Storage	Remarks
1-1978	-	37	0	37	Salt Well Installed New Solids Level 1-31-78
2-	-	36	0	36	
3-	-	36	0	36	
4-	-	36	0	36	
1-1979	-	36	0	36	Inactive Primary Stab.
2-	-	36	0	36	
3-	-	36	0	36	
4-	-	36	0	36	
1-1980	-	36	0	36	New Photo 3-18-80
2-	-	36	0	36	
3-	-	37	0	37	
4-	-	37	0	37	

Waste Status Summary of 204-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1952	---	---	---	---	
2	224	54.5	---	---	
3	224	54.5	---	---	
4	224	54.5	---	---	
1-1953	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1954	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1955	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1956	---	54.5	0	54.5	
2	---	54.5	0	54.5	
3	---	54.5	0	54.5	
4	---	54.5	0	54.5	
1-1957	---	54.5	0	54.5	Estimated reading.
2	---	54.5	0	54.5	New electrode reading.
3	224	56	1.5	54.5	Latest electrode reading.
4	224	56	1.5	54.5	
1-1958	224	56	1.5	54.5	
2	224	56	1.5	54.5	
3	224	56	1.5	54.5	
4	224	56	1.5	54.5	
1-1959	224	56	1.5	545	
2	224	55	.5	54.5	
3	224	55	.5	54.5	
4	224	55	.5	54.5	

Waste Status Summary of 204-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1960	224	54	.5	54.5	
2	224	54	.5	54.5	
3	224	54	.5	54.5	
4	224	54	.5	54.5	
1-1961	---	---	---	---	
2	224	52	2.5	54.5	6 Month Report
3	---	---	---	---	
4	224	52	2.5	54.5	6 Month Report
1-1962	---	---	---	---	
2	224	54	---	54	6 Month Report
3	---	---	---	---	
4	224	52	2	50	6 Month Report Latest electrode reading.
1-1963	---	---	---	---	
2	224	52	2	50	6 Month Report New electrode reading.
3	---	---	---	---	
4	224	52	2	50	6 Month Report
1-1964	---	---	---	---	
2	224	52	2	50	6 Month Report
3	---	---	---	---	
4	224	52	2	50	6 Month Report
1-1965	---	---	---	---	
2	224	52	8	44	6 Month Report
3	224	52	8	44	
4	224	52	8	44	
1-1966	224	52	8	44	
2	224	52	8	44	
3	224	52	8	44	
4	224	52	8	44	
1-1967	224	52	8	44	
2	224	52	8	44	
3	224	52	8	44	
4	224	52	8	44	
1-1968	224	52	8	44	
2	224	51	7	44	
3	224	51	7	44	
4	224	51	7	44	
1-1969	224	51	7	44	
2	224	51	7	44	
3	224	51	7	44	
4	224	51	7	44	

Waste Status Summary of 204-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid In Storage	Solids In Storage	Remarks
1-1970	224	51	7	44	
2	224	51	7	44	
3	224	51	7	44	
4	224	51	7	44	
1-1971	224	51	7	44	
2	224	51	7	44	
3	224	51	7	44	
4	224	51	7	44	
1-1972	224	51	7	44	
2	224	51	7	44	
3	224	51	7	44	
4	224	51	7	44	
1-1973	224	51	7	44	
2	224	50	6	44	
3	224	50	6	44	
4	224	50	6	44	
1-1974	224	50	6	44	
2	224	50	6	44	
3	224	50	6	44	
4	224	50	6	44	
1-1975	224	50	6	44	
2	224	50	6	44	
3	224	50	6	44	
4	224	50	6	44	
1-1976	224	49	5	44	Removed from service 1 to 101-T.
2	---	44	0	44	Removed from service 5 to 101-T.
3	---	44	0	44	Inactive salt well pumping.
4	---	44	0	44	
1-1977	---	44	0	44	Salt well, pump
2	---	44	0	44	
3	---	44	0	44	Inactive current
4	---	44	0	44	Inactive current

Waste Status Summary of 204-T Tank-Capacity 55,000 Gallons

Qtr.-Year	Type Waste	Total Vol.	Liquid in Storage	Solids in Storage	Remarks
1-1978	-	37	0	37	Prim. Stab. New Solids Level 1-31-78
2-	-	37	0	37	
3-	-	37	0	37	
4-	-	37	0	37	
1-1979	-	37	0	37	
2-	-	37	0	37	
3-	-	37	0	37	
4-	-	37	0	37	
1-1980	-	37	0	37	New Photo 3-18-80
2-	-	37	0	37	
3-	-	38	0	38	
4-	-	38	0	38	