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1	1	Project Operations	<i>W.S. Lewis</i>	9/29/94	TS-50						

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7. Abstract This document identifies the feed items that will be processed during the Sludge Stabilization Campaign.		
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MASTER

Sludge Stabilization Campaign Blend Plan

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Sludge Stabilization Campaign Blend Plan

I. INTRODUCTION

This Sludge Stabilization Blend Plan documents the material to be processed and the order of processing for the FY95 Sludge Stabilization Campaign. The primary mission of this process is to reduce the inventory of unstable plutonium bearing sludge. The source of the sludge is residual and glovebox floor sweepings from the production of material at the Plutonium Finishing Plant (PFP). The reactive sludge is currently being stored in various gloveboxes at PFP. The sludge is to be thermally stabilized in a glovebox in room 230A of the 234-5Z building and material handling for the process will be done in room 230B of the same building. The campaign is scheduled for approximately 10 months. A total of roughly 22.5 kg of Pu will be processed.

II. MATERIAL TO BE PROCESSED

There are two types of the plutonium bearing material that will be thermally stabilized in the muffle furnace: Plutonium Reclamation Facility (PRF) sludge and Remote Mechanical C (RMC) Line material.

PRF Sludge (Table 1)

Items included in PRF sludge group are centrifuge, PRF glovebox and canyon sludges. Since tributyl phosphate (TBP) is used as the extractant in the PRF process, all sludge items that originated in PRF have the potential to contain TBP. If the items have not already been sampled for organic content they will be sampled prior to being introduced into the furnaces. Items that contain greater than 2% organic (TBP) will not be fed into the furnaces. Although the centrifuge sludges may not have directly come from the PRF process, due to being in the PRF gloveboxes a possibility of contact with organic could have occurred and the material will be processed under the PRF program.

TOTAL ITEMS: 145
TOTAL Pu (Kg): 11.5

Sludge Stabilization Campaign Blend Plan

II. MATERIAL TO BE PROCESSED (cont.)

RMC Line Material (Table 2 and 3)

The second type of material originated in the RMC Line. Since there is no TBP used in the RMC Line process it is assumed that these items do not contain TBP. These type of items include plutonium fluoride, plutonium oxide, and plutonium oxalate (plutonium oxycarbonate). The items from the RMC Line will be separated into two different groups, RMC Oxalate (Table 2) and RMC Oxide (Table 3).

TOTAL ITEMS for RMC Oxalate: 41	TOTAL ITEMS for RMC Oxide: 47
TOTAL Pu (Kg): 6.5	TOTAL Pu (Kg): 4.5

Sludge Stabilization Campaign Blend Plan

III. PROCESS ORDER BASIS (Includes Assumptions and Current Restrictions)

A. Safety

1. 232-Z Unreviewed Safety Question is resolved.
2. Overall goal is to improve safety posture by getting reactive materials in stable forms and into vaults. Current reactive material being stored in V-174 in vent containers should be processed towards the beginning of the processing campaign to reduce the reactive scrap in the vaults. It is also preferable to process items out of any glovebox that is not seismically qualified towards the beginning of the campaign.

B. Security

1. Room 230A and Room 230B and the 213 MBA must be kept within current security categories. Room 230A and 230B are in Category III, the 213 MBA is in Category II. To help maintain current security categories, as much as possible of the Category C material in MBA 213 should be processed towards the beginning of the campaign. Two large items in the 213 MBA must be processed first to reduce inventory and not increase the security category.
2. Reduce Category C material in PRF to improve security posture.

C. Laboratory

1. OSR 5.22 restricts the PFP Laboratories (Analytical, Standards, and PPSL) to 12,450 g Plutonium (Pu) of which not more than 5,250 grams may be greater than 10% Pu^{240} . The Analytical Laboratory is further limited to 2,250 grams of 10% ^{240}Pu .

There are 16 items which contain 11.5% ^{240}Pu which must be sampled for percent organic before processing. In addition, all PRF items designated in Table 1 must be sampled for organic and the slip-lid cans must have an Loss On Ignition (LOI) test performed before being shipped to the vaults for long term storage. To free up room in the Analytical Labs to allow for Loss On Ignition (LOI) samples and PRF sludge item organic samples to be run, material (400 grams of Category C) from the analytical laboratories needs to be received into MBA 213 for storage/processing through the furnaces.

Sludge Stabilization Campaign Blend Plan

III. PROCESS ORDER BASIS (Cont.)

D. Requirements for Processing

1. Approximately 115 of the PRF items will need to be sampled for percent organic before being processed.

E. ALARA (As Low As Reasonably Achievable)

1. The daily Operating Instructions (OI) should take into consideration good ALARA practices to keep radiation dose and handling of the items to a minimum. This would include processing items from the same pedestal/location at the same time.

Sludge Stabilization Campaign Blend Plan

IV. PROCESS ORDER

1. Item 5-91-02-02 (NOTE: Inspection of material by engineering is required before processing.)
Basis: B.1
2. Item 5-91-02-04 (NOTE: Inspection of material by engineering is required before processing.)
Basis: B.1
3. Receive item from analytical laboratories of approximately 400 grams for storage/processing.
Basis: C.1
4. Process the following category 5 items in Room 230A and Room 230B.
 - 5-89-07-55
 - 5-94-07-13
 - 5-94-07-16(NOTE: Inspection of material by engineering is required before processing.)
Basis: B.1
5. Process the following category 10 items in MBA 213.
 - 10-88-11-359
 - 10-89-05-29
 - 10-88-11-357Basis: B.1
6. Process the following items stored in V-174, marked by * in TABLES 1, 2, and 3. Exact order of processing will be specified in the daily Operating Instructions (OI). All PRF type items must be sampled for organic with sample results <2% before processing.
Basis: A.2/D.1
7. Process the following category 5 items in PRF.
 - 5-91-02-01
 - 5-91-02-03(NOTE: Inspection of material by engineering is required before processing.)
Basis: B.2

Sludge Stabilization Campaign Blend Plan

IV. PROCESS ORDER (cont.)

8. Process the remaining items. Items are found in Tables 1, 2, and 3. Exact order of processing will be specified in the OI. All PRF type items must be sampled for organic with sample results <2% before processing. Receive 400 to 800 grams of material from the Analytical Laboratory. Engineering must evaluate the material before it is received for processing.

Basis: A.2/D.1/E.1

TABLE 1 - PRF SLUDGE

NOTE :

- These items will be run as PRF Sludge under Furnace program Pnrl
- The following Centrifuge Sludge will be run as PRF sludge due to being stored/centrifuged in PRF.
- * - Identifies reactive material being stored in V-174.
- S - Identifies material that will need to be sampled for percent organic before being processed.

Item ID	Pu (g)	%Pu240	Location	Material Type	SAMPLE	RESULT
CENTRIFUGE SLUDGE						
S 21-88-11-336-2	113	5.5	HA-23S	Centrifuge Sludge		
S 21-88-11-337-1	95	5.5	HA-23S	Centrifuge Sludge		
S 21-88-11-337-2	95	5.5	HA-23S	Centrifuge Sludge		
21-88-11-342	127	5.5	HA-23S	Centrifuge Sludge	B2961	< 2%
21-88-11-343	114	5.5	HA-23S	Centrifuge Sludge	B2963	< 2%
S 21-86-08-735	35	5.5	HA-23S	Centrifuge Sludge		
S 21-86-08-736	55	5.5	HA-23S	Centrifuge Sludge		
S 21-86-08-737	77	5.5	HA-23S	Centrifuge Sludge		
S 21-87-03-127	53	5.5	HA-23S	Centrifuge Sludge		
S 21-87-03-129	53	5.5	HA-23S	Centrifuge Sludge		
S 21-87-03-131	128	5.5	HA-23S	Centrifuge Sludge		
S 21-87-03-132	238	5.5	HA-23S	Centrifuge Sludge		
S 21-87-03-133	74	5.5	HA-23S	Centrifuge Sludge		
S 21-87-03-155	98	5.5	HA-23S	Centrifuge Sludge		
S 21-87-03-156	25	5.5	HA-23S	Centrifuge Sludge		

TABLE 1 - PRF SLUDGE

S	21-87-03-157	28	5.5	HA-23S	Centrifuge Sludge		
S	21-87-03-158	113	5.5	HA-23S	Centrifuge Sludge		
S	21-87-03-159	83	5.5	HA-23S	Centrifuge Sludge		
S	21-87-03-71	69	5.5	HA-23S	Centrifuge Sludge		
S	21-87-03-74	95	5.5	HA-23S	Centrifuge Sludge		
S	21-87-03-75	79	5.5	HA-23S	Centrifuge Sludge		
S	21-87-03-76	55	5.5	HA-23S	Centrifuge Sludge		
S	21-87-03-77	43	5.5	HA-23S	Centrifuge Sludge		
S	21-87-03-94	143	5.5	HA-23S	Centrifuge Sludge		
	21-88-11-316	99	5.5	HA-23S	Centrifuge Sludge	B2945	< 2%
	21-88-11-324-1	79	5.5	HA-23S	Centrifuge Sludge	B2949	< 2%
	21-88-11-324-2	78	5.5	HA-23S	Centrifuge Sludge	B2949	< 2%
	21-88-11-325	33	5.5	HA-23S	Centrifuge Sludge	B2951	< 2%
	21-88-11-336-1	113	5.5	HA-23S	Centrifuge Sludge	B2957	< 2%
S	21-74-10-557-1	21	11.5	HA-23S	Centrifuge Sludge		
S	21-85-05-653	21	5.5	HA-23S	Centrifuge Sludge		
S	21-85-05-654	35	5.5	HA-23S	Centrifuge Sludge		
S	21-85-05-656	23	5.5	HA-23S	Centrifuge Sludge		
S	21-85-05-657	27	5.5	HA-23S	Centrifuge Sludge		
S	21-85-05-658	42	5.5	HA-23S	Centrifuge Sludge		

TABLE 1 - PRF SLUDGE

S	21-85-05-659	69	5.5	HA-23S	Centrifuge Sludge		
S	21-85-05-666	37	5.5	HA-23S	Centrifuge Sludge		
S	21-85-05-777	26	5.5	HA-23S	Centrifuge Sludge		
S	21-85-06-976	61	5.5	HA-23S	Centrifuge Sludge		
S	21-85-06-978	56	5.5	HA-23S	Centrifuge Sludge		
S	21-85-06-979	51	5.5	HA-23S	Centrifuge Sludge		
S	21-85-06-981	91	5.5	HA-23S	Centrifuge Sludge		
S	21-85-06-988	62	5.5	HA-23S	Centrifuge Sludge		
S	21-92-02-07	104	5.5	1 East PRF	Centrifuge Sludge		
S	21-94-08-24 (89-04-22-04)	279	5.5	1 East PRF	Centrifuge Sludge		
S	21-94-08-25 (89-07-11-01)	84	5.5	1 East PRF	Centrifuge Sludge		
	21-94-08-26 (90-07-05-01)	202	5.5	1 East PRF	Centrifuge Sludge	C508	0%
	21-94-08-27 (89-09-05-03)	244	5.5	1 East PRF	Centrifuge Sludge	C449	0%
S	21-94-08-28 (06-20-89-1B)	11	5.5	1 East PRF	Centrifuge Sludge		
S	21-94-08-29 (06-20-89-1A)	128	5.5	1 East PRF	Centrifuge Sludge		
*S	10-88-11-333	251	5.5	V-174	Centrifuge Sludge		
*S	10-88-11-335	319	5.5	V-174	Centrifuge Sludge		
*S	10-89-01-05	141	5.5	V-174	Centrifuge Sludge		
*S	10-89-01-06	257	5.5	V-174	Centrifuge Sludge		
S	19-89-01-04	156	5.5	HA-23S	Centrifuge Sludge		

TABLE 1 - PRF SLUDGE

S	19-93-01-02	211	5.5	HA-23S	Centrifuge Sludge	
S	19-93-01-03	156	5.5	HA-23S	Centrifuge Sludge	
S	19-93-01-04	130	5.5	HA-23S	Centrifuge Sludge	
S	19-93-01-05	34	5.5	HA-23S	Centrifuge Sludge	
S	19-93-01-06	60	5.5	HA-23S	Centrifuge Sludge	
IDENTIFIED PRF SLUDGE						
S	14-82-12-272	17	11.5	HA-23S	PRF Canyon Solids	
S	14-82-12-288	21	11.5	HA-23S	PRF Canyon Solids	
S	14-82-12-307	14	11.5	HA-23S	PRF Canyon Solids	
S	14-82-12-309	17	11.5	HA-23S	PRF Canyon Solids	
S	14-82-12-344	15	11.5	HA-23S	PRF Canyon Solids	
S	14-82-12-368	14	11.5	HA-23S	PRF Canyon Solids	
S	14-82-12-411	43	11.5	HA-23S	PRF Canyon Solids	
S	14-82-12-508	14	11.5	HA-23S	PRF Canyon Solids	
S	14-82-12-509	26	11.5	HA-23S	PRF Canyon Solids	
S	19-90-07-22	44	5.5	HA-23S	Pu Recovery Scrap	
S	19-90-07-23	17	5.5	HA-23S	Pu Recovery Scrap	
S	19-92-01-06	16	5.5	HA-23S	Pu Recovery Scrap	
S	18-88-02-30	20	5.5	HA-23S	PRF Sludge	
S	18-88-02-31	30	5.5	HA-23S	PRF Sludge	

TABLE 1 - PRF SLUDGE

S	19-87-03-106	54	5.5	HA-23S	PRF Sludge		
S	19-87-03-144	64	5.5	HA-23S	PRF Sludge		
S	19-87-03-146	85	5.5	HA-23S	PRF Sludge		
S	19-87-03-147	57	5.5	HA-23S	PRF Sludge		
S	19-87-03-148	20	5.5	HA-23S	PRF Sludge		
S	19-87-03-162	58	5.5	HA-23S	PRF Sludge		
S	19-87-03-163	39	5.5	HA-23S	PRF Sludge		
S	19-87-03-165	58	5.5	HA-23S	PRF Sludge		
S	19-87-03-174	85	5.5	HA-23S	PRF Sludge		
S	19-87-03-175	89	5.5	HA-23S	PRF Sludge		
S	19-87-03-176	61	5.5	HA-23S	PRF Sludge		
S	19-87-03-177	80	5.5	HA-23S	PRF Sludge		
S	19-87-03-73	91	5.5	HA-23S	PRF Sludge		
S	19-87-03-89	52	5.5	HA-23S	PRF Sludge		
S	19-87-09-302	64	5.5	HA-23S	PRF Oxide Scrap		
S	19-87-09-303	311	5.5	HA-23S	PRF Oxide Scrap		
S	19-87-09-304	264	5.5	HA-23S	PRF Oxide Scrap		
S	19-87-09-305	8	5.5	HA-23S	PRF Oxide Scrap		
S	19-87-09-307	24	5.5	HA-23S	PRF Oxide Scrap		
S	19-87-11-330	17	5.5	HA-23S	PRF Oxide Scrap		

TABLE 1 - PRF SLUDGE

S	19-87-11-331	30	5.5	HA-23S	PRF Oxide Scrap		
S	19-87-11-333	50	5.5	HA-23S	PRF Solids		
S	19-87-11-334	212	5.5	HA-23S	PRF Solids		
S	19-88-01-03	83	5.5	HA-23S	PRF Solids		
S	19-88-01-04	42	5.5	HA-23S	PRF Solids		
S	19-88-01-05	116	5.5	HA-23S	PRF Solids		
S	19-88-01-06	33	5.5	HA-23S	PRF Solids		
S	19-88-01-09	34	5.5	HA-23S	PRF Solids		
S	19-88-01-10	97	5.5	HA-23S	PRF Solids		
S	19-88-01-11	183	5.5	HA-23S	PRF Solids		
S	20-83-11-856	25	11.5	HA-23S	PRF Sludge		
S	20-83-11-857	102	11.5	HA-23S	PRF Sludge		
S	20-84-02-30	11	11.5	HA-23S	PRF Sludge		
S	20-84-03-117	14	11.5	HA-23S	PRF Sludge		
S	41-90-04-10	10	5.5	HA-23S	PRF Solids/Sludge		
S	41-90-04-18	36	5.5	HA-23S	PRF Solids/Sludge		
S	41-90-04-21	36	5.5	HA-23S	PRF Solids/Sludge		
S	53-73-07-1363-1	64	5.5	HA-23S	PRF Sludge		
	21-94-08-33 (05-16-01-01)	178	5.5	1 West PRF	PRF Sludge	C435	0%
S	18-94-08-36 (89-09-05-01)	19	5.5	2 East PRF	Filter Scrap		

TABLE 1 - PRF SLUDGE

	21-94-08-37 (89-07-27-01)	36	5.5	2 East PRF	PRF Sludge	C444	0%
S	21-94-08-38 (19-88-01-08-01)	240	5.5	2 East PRF	PRF Sludge		
	21-94-08-39 (89-07-27-03)	61	5.5	2 East PRF	PRF Sludge	C446	0%
	21-94-08-40 (89-07-27-02)	40	5.5	2 East PRF	PRF Sludge	C445	0%
S	21-94-08-41 (212-92-06-01)	41	5.5	2 East PRF	PRF Sludge		
	21-94-08-31 (89-07-24-2)	9	5.5	1 West PRF	PRF Sludge	C437	0%
	21-94-08-32 (89-07-24-1)	9	5.5	1 West PRF	PRF Sludge	C430	0%
S	21-94-08-43 (212-92-06-02)	40	5.5	2 East PRF	PRF Sludge		
S	21-94-08-45 (89-04-22-3B)	153	5.5	2 East PRF	PRF Sludge		
S	17-94-08-46 (17-92-07-12)	14	5.5	2 East PRF	PRF Sludge		
S	21-94-08-47 (19-90-11-49)	69	5.5	2 East PRF	PRF Sludge		
S	19-94-08-49 (08-18-89-01)	225	5.5	2 East PRF	PRF Sludge		
	19-90-10-4	80	5.5	2 East PRF	PRF Sludge	C442	2%
S	21-94-08-51 (89-04-22-05)	191	5.5	2 East PRF	PRF Sludge		
	19-90-10-45	76	5.5	2 East PRF	PRF Sludge	C440	0%
	18-90-10-44	26	5.5	2 West PRF	Filter Scrap	C498	< 2%
	18-90-10-43	27	5.5	2 West PRF	Filter Scrap	C464	< 2%
	18-90-10-42	31	5.5	2 West PRF	Filter Scrap	C460	< 2%
	18-90-10-41	17	5.5	2 West PRF	Filter Scrap	C461	0%
S	18-90-10-40	27	5.5	2 West PRF	Filter Scrap	C462	3.66%

TABLE 1 - PRF SLUDGE

	18-90-10-39	30	5.5	2 West PRF	Filter Scrap	C463	0%
	18-90-10-38	33	5.5	2 West PRF	Filter Scrap	C465	0%
	18-90-10-37	28	5.5	2 West PRF	Filter Scrap	C499	< 2%
	21-94-08-53 (89-02-09-06)	40	5.5	2 West PRF	PRF Sludge	C500	< 2%
	21-94-08-54 (88-12-27-01)	76	5.5	2 West PRF	PRF Sludge	C473	0%
S	21-94-08-57 (89-04-22-3A)	281	5.5	2 West PRF	PRF Sludge		
	21-94-08-60 (88-12-22-01)	156	5.5	2 West PRF	PRF Sludge	C476	0%
	21-94-08-61 (16-1 & 16-2)	87	5.5	2 West PRF	PRF Sludge	C475	0%
S	21-94-08-42 (89-12-14-08)	23	5.5	2 East PRF	PRF Sludge		
S	21-94-08-48 (89-10-02-01)	22	5.5	2 East PRF	PRF Sludge		
S	21-94-08-63 (89-04-22-02)	203	5.5	MT-6	PRF Sludge		
TOTAL Pu (grams): 11,534							

TABLE 2 - RMC OXALATE

NOTE:

- These items will be run as RMC Oxalate under Furnace program Pnr2
- * - Identifies reactive material being stored in V-174.
- I - Identifies material that will need to be inspected by engineering to determine if it can be run as RMC Oxalate or if it will need to be sampled for percent organic and run as PRF SLUDGE.

Item ID	Pu (g)	%Pu240	Location	Material Type	SAMPLE	RESULT
21-89-07-47	49	5.5	HA-23S	Oxalate Sludge		
21-89-07-48	106	5.5	HA-23S	Oxalate Sludge		
21-89-07-49	24	5.5	HA-23S	Oxalate Sludge		
21-89-07-50	20	5.5	HA-23S	Oxalate Sludge		
21-89-07-52	29	5.5	HA-23S	Oxalate Sludge		
62-83-04-214	36	11.5	HA-23S	Oxalate Sludge		
* 10-88-12-379	105	5.5	V-174	RMC Sludge	B3003	< 2%
* 05-89-05-30	181	5.5	V-174	RMC Sludge		
* 05-89-05-31	252	5.5	V-174	RMC Sludge		
* 05-89-05-32	278	5.5	V-174	RMC Sludge		
20-87-03-79	9	11.5	HA-23S	RMC Sludge		
19-93-01-07	104	5.5	HC-4	RMC Sludge		
19-94-08-64 (89-12-09)	167	5.5	HC-7C	Pu Oxalate		
10-94-08-68 (89-12-11)	248	5.5	HC-9B	Pu Oxalate		
10-94-08-67 (89-12-12)	77	5.5	HC-9B	Pu Oxalate		
10-89-07-89	272	5.5	HC-9B	Pu Oxalate		

TABLE 2 - RMC OXALATE

	10-89-07-86	479	5.5	HC-9B	Pu Oxalate		
	10-89-07-83	245	5.5	HC-9B	Pu Oxalate		
	10-89-07-85B	104	5.5	HC-9B	Pu Oxalate		
	10-89-07-85A	152	5.5	HC-9B	Pu Oxalate		
	10-94-08-65 (91-05-15-02)	115	5.5	HC-9B	Pu Oxalate		
	10-94-08-66 (91-05-15-01)	94	5.5	HC-9B	Pu Oxalate		
	19-94-08-35 (89-08-17-26)	347	5.5	1 West PRF	Sweeps	C429	0%
	19-94-08-34 (89-08-17-23)	207	5.5	1 West PRF	Sweeps	C433	0%
	10-89-07-82	252	5.5	1 West PRF	Pu Oxalate	C431	0%
I	19-92-04-09	16	5.5	2 East PRF	Sweeps		
I	19-94-08-44 (89-08-17-07)	55	5.5	2 East PRF	Sweeps		
I	19-94-08-50 (05-15-89-02)	264	5.5	2 East PRF	Sweeps		
	19-94-08-52 (89-07-25-04)	98	5.5	2 West PRF	Sweeps	C501	< 2%
I	19-94-08-55 (05-91-07-12)	28	5.5	2 West PRF	Sweeps		
	19-94-08-56 (89-07-25-01A)	95	5.5	2 West PRF	Sweeps	C474	0%
	19-94-08-58 (89-07-25-1B)	65	5.5	2 West PRF	Sweeps	C477	0%
I	19-94-08-59 (90-11-15-01)	50	5.5	2 West PRF	Sweeps		
	19-94-08-62 (12-10-87-09)	134	5.5	MT-1	Screened Scraps		
	10-88-11-357	78	5.5	HA-23S	RMC Hood Sweeps		
*	10-88-11-358	398	5.5	V-174	RMC Hood Sweeps		

TABLE 2 - RMC OXALATE

*	10-89-05-26	202	5.5	V-174	RMC Hood Sweeps			
*	10-89-05-27	208	5.5	V-174	RMC Hood Sweeps			
*	10-89-05-28	288	5.5	V-174	RMC Hood Sweeps			
	10-89-05-29	103	5.5	HA-23S	RMC Hood Sweeps			
	10-88-11-359	387	5.5	HA-20MB	227 Sludge			
TOTAL Pu (grams):		6421						

TABLE 3 - RMC OXIDE

NOTES:

- These items will be run as RMC Oxide under Furnace program Pnr3.
- * - Identifies reactive material being stored in V-174.

Item ID	Pu (g)	%Pu240	Location	Material Type
18-88-02-34	35	5.5	HA-23S	Pu Oxide from Filters
18-88-02-35	36	5.5	HA-23S	Pu Oxide from Filters
18-88-02-37	46	5.5	HA-23S	Pu Oxide from Filters
18-88-02-38	44	5.5	HA-23S	Pu Oxide from Filters
18-88-02-39	39	5.5	HA-23S	Pu Oxide from Filters
18-88-02-40	47	5.5	HA-23S	Pu Oxide from Filters
18-88-02-43	39	5.5	HA-23S	Pu Oxide from Filters
18-88-02-44	37	5.5	HA-23S	Pu Oxide from Filters
18-88-02-48	18	5.5	HA-23S	Pu Oxide from Filters
18-88-03-56	9	5.5	HA-23S	Pu Oxide from Filters
52-86-02-140-1	26	8.5	HA-23S	Oxide Sweeps
52-86-02-140-2	25	8.5	HA-23S	Oxide Sweeps
52-86-02-140-3	28	8.5	HA-23S	Oxide Sweeps
52-86-02-141-1	21	8.5	HA-23S	Oxide Sweeps
52-86-02-141-2	21	8.5	HA-23S	Oxide Sweeps
52-86-02-141-3	20	8.5	HA-23S	Oxide Sweeps
52-86-02-142-1	22	8.5	HA-23S	Oxide Sweeps
52-86-02-142-2	15	8.5	HA-23S	Oxide Sweeps
52-86-02-142-3	25	8.5	HA-23S	Oxide Sweeps
52-86-02-142-4	22	8.5	HA-23S	Oxide Sweeps
52-87-03-81	38	8.5	HA-23S	Oxide Sweeps
FB 24 Scrap #1	41	5.5	HA-23S	Oxide Sweeps
FB 24 Scrap #2	35	8.5	HA-23S	Oxide Sweeps
* 63-89-01-03	142	5.5	V-174	Oxide Sweeps
* 62-485	193	6.9	V-174	Oxide Sweeps
19-88-07-145	74	5.5	HA-23S	Low Fired Oxide

TABLE 3 - RMC OXIDE

19-88-12-371	172	5.5	HA-23S	Low Fired Oxide
19-89-04-21	131	5.5	HA-23S	Low Fired Oxide
19-89-04-22	120	5.5	HA-23S	Low Fired Oxide
19-89-04-23	64	5.5	HA-23S	Low Fired Oxide
19-89-04-24	60	5.5	HA-23S	Low Fired Oxide
20-87-03-130	39	5.5	HA-23S	Oxide Sweeps
52-86-02-139-1	28	8.5	HA-23S	Oxide Sweeps
52-86-02-139-2	28	8.5	HA-23S	Oxide Sweeps
52-86-02-139-3	17	8.5	HA-23S	Oxide Sweeps
52-86-02-139-4	24	8.5	HA-23S	Oxide Sweeps
19-93-09-35	12	5.5	MT-1	Pu Rust
19-93-09-36	15	5.5	MT-1	Pu Rust
19-93-09-37	31	5.5	MT-1	Pu Rust
19-93-09-38	19	5.5	MT-1	Pu Rust
5-91-02-01	335	5.5	1 West PRF	PuF4 powder
5-91-02-02	696	5.5	1 West PRF	PuF4 powder
5-91-02-03	627	5.5	HC-18BS	PuF4 powder
5-91-02-04	250	5.5	HC-18BS	PuF4 powder
5-89-07-55	35	5.5	230-A	C-line Hood Sweeps
5-94-07-13	302	5.5	230-B	C-line Hood Sweeps
5-94-07-16	174	5.5	230-B	C-line Hood Sweeps
TOTAL Pu (grams):		4277		