0045132

Meeting Minutes Transmittal

PUREX Plant/Storage Tunnels Project Managers Meeting
2440 Stevens Center, Room 2664
Richland, Washington

June 12, 1996
1:30 p.m. - 3:30 p.m.

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above-dated meeting.

Richard X. Gonzalez — Date: 14 August 1996
Richard X. Gonzalez, Project Manager, DOE-RL

Date: 14 August 1996
Robert Julian, Project Manager, Washington State Department of Ecology

Lucinda L. Grant — Date: 14 August 1996
Lucinda L. Grant, Washington State Department of Health

Date: 14 AUG 1996
Gregory J. LeBaron, PUREX Contractor Representative, WHC

Purpose: Discuss PUREX Deactivation Process

Meeting Minutes are attached. The minutes are comprised of the following:

Attachment 1 - Agenda
Attachment 2 - Summary of Discussion and Commitments/Agreements
Attachment 3 - Attendance List
Attachment 4 - Action Items
Attachment 5 - PUREX Deactivation Status
Attachment 6 - Removing the Organic Solution from TK-40 (handout)

SEP 1996
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EDMC

PUREX Plant/Storage Tunnels Project Managers Meeting
2440 Stevens Center, Room 2664
Richland, Washington

June 12, 1996
1:30 p.m. - 3:30 p.m.

- AGENDA -

1:30 PM - 3:30 PM INTRODUCTIONS

APPROVE PAST MEETING MINUTES

STATUS ITEMS

- PUREX Storage Tunnels Part B
- PUREX Plant and Tunnels Part As
- PUREX Pre-Closure Work Plan
- PUREX Transition Status
- Waste for Storage Tunnel

GENERAL TOPICS

- Additional topics
- Action items
  - Past action items
  - New action items
- Scheduling of next meeting

Attachment 2

PUREX Plant/Storage Tunnels Project Managers Meeting
2440 Stevens Center, Room 2664
Richland, Washington

June 12, 1996
1:30 p.m. - 3:30 p.m.

Summary of Discussion and Commitments/Agreements

APPROVE PAST MEETING MINUTES

The Unit Managers Meeting minutes of 4/24/96 were approved.

STATUS ITEMS

- **PUREX Storage Tunnels Part B**

  Mr. C. Strand (WHC) stated that the PUREX Storage Tunnels Part B revision to address Ecology comments is complete and is awaiting completion of the Hanford Facility Dangerous Waste Permit Application, General Information Portion (DOE/RL-91-28). The Part B is scheduled to be submitted to Ecology with DOE/RL-91-28 on July 26, 1996.

- **PUREX Plant and Tunnels Part As**

  Mr. Strand stated that the PUREX Plant and PUREX Storage Tunnels Part A, Form 3s, were certified by RL on May 17, 1996 and submitted to Ecology on May 23, 1996. Ecology responded to the Part A, Form 3, submittals with a letter dated May 30, 1996. The letter from PUREX Project Manager, Robert J. Julian stated that the Part A, Form 3s, "were found to be complete and accurate, and no further action is necessary".

- **PUREX Pre-Closure Work Plan**

  Mr. Strand stated that the PUREX Pre-Closure Workplan is concluding internal comment resolution with the WHC approval cycle anticipated to begin on June 20, 1996. The work plan is due to Ecology by July 31, 1996. Mr. R. Julian (Ecology) stated he had generated 4 informal comments on the workplan that he would like to share with RL and WHC. Ms. L. Grant (DOH) was not familiar with the PUREX Pre-Closure Work Plan documentation and asked for a clarification. Mr. G LeBaron (WHC) and Mr. R. Gonzalez (RL) provided Ms. Grant with a verbal description of the scope of the workplan and how it related to Transition Facility shutdown as defined in the latest revision of the Hanford Federal Facility Agreement and Consent Order.

- **PUREX Transition Status**

Mr. LeBaron provided an update to the PUREX deactivation status (Attachment 5). He stated that 170 endpoints have been closed out with progress continuing. He expects endpoint closeouts to jump in the near future.

Progress on instrument deactivation was reported as good. 560 instruments were deactivated in April and 424 were deactivated in May.

Mr. LeBaron reported that the receiver of the contaminated organic shipments was balking at taking the last two shipments. However, due to contract obligations the receiver will take the last two shipments of contaminated organics. Mr. LeBaron stated that the last shipment was loaded and sent out on June 11, 1996 for a total of six shipments. Following the last shipment, Tank 40 was flushed and declared empty. Because the tank had been flushed and emptied, Mr. LeBaron stated that taking a RCRA sample would be a near impossibility. He then provided a written justification to Ecology that included calculations to support the position and empty declaration (Attachment 6). Mr. Julian of Ecology stated he would have the justification reviewed and unless notification is made to RL and WHC of any problems, the justification would be approved.

Storage gallery deactivation progress was provided as nearly complete with some housekeeping items and postings yet to be completed. Storage gallery deactivation is expected to be complete by mid June.

Sample gallery deactivation progress was provided with some header isolation and final stabilization of samplers and monitors remaining to be completed. All of the samplers have been deactivated except two that are associated with Tanks U3 and U4. The remaining two will be deactivated following the last placement of tank cars in Tunnel Number 2. Sample gallery deactivation is expected to be complete by mid July.

The pipe and operating gallery deactivation progress was provided as nearly complete with some removal and fixation of contamination remaining in the white room. Pipe and operating gallery deactivation is expected to be compete by mid July. Mr. LeBaron indicated that a "residents out" status was expected to be reached soon. Mr. Julian questioned this and Mr. LeBaron explained that residents out meant that certain work items would be completed and permanent residents would be relocated so additional deactivation work, such as the HVAC switchover, could continue.

N Cell deactivation progress was provided with activities completed in Q Cell and the PR Room. In N Cell, the last ports to the glove boxes have been sealed. N Cell deactivation is expected to be complete by mid June.

Since the last meeting, there has not been a lot of progress on the ancillary building deactivation due to staffing requirements to support other deactivation activities. The 212-A load out and U Cell have been completed.

Little progress was reported on the HVAC system consolidation work. The lack of progress was due to resource loading associated with efforts on achieving a residents out status. Progress on the laboratory HVAC deactivation was reported with the lab rooms complete. The lab HVAC room is expected to be complete by the end of July. The lab stacks are expected to be complete by the end of July as well. Mr. LeBaron explained that while progress was slow last month, overall deactivation of the lab HVAC was ahead of schedule.

- **Waste For Storage Tunnel**

  Mr. LeBaron indicated that all 17 of the shipments of 324 Building waste have been received and that efforts were currently underway to place the last of the waste in Tunnel Number 2.

  Mr. Julian inquired about the start of 6 month testing of the Tunnel Number 2 stack per a Notice of Construction written for the receipt of the 324 waste in Tunnel Number 2. Mr LeBaron and Ms. Grant indicated that the 6 month testing would begin following the last placement of material in the tunnel. Mr. LeBaron stated that three TC-4 Rail Tank Cars were planned to be placed in Tunnel Number 2 within a week and that following their placement the testing would begin. Ms. Grant requested that WHC send the Department of Health a memo identifying the start and end date of the Tunnel Number 2 stack testing. Mr. LeBaron accepted this request as an action item.

GENERAL TOPICS

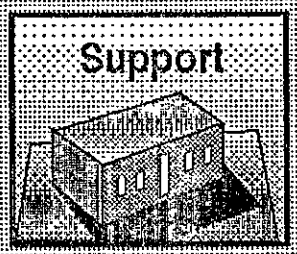
- **Additional Topics**

  Mr LeBaron stated that on June 11, 1996 two individuals representing the Department of Health made an unannounced visit to PUREX. Their purpose was to determine if the PUREX Facility was operating any temporary exhausters. An inspection confirmed that there were no temporary exhausters in use at the PUREX Facility and no other problems were identified.

  Mr. Gonzalez stated that he was scheduled to receive a national award for the PUREX Facility in recognition of waste minimization efforts. He thanked those responsible for their efforts.

- **Action Items**

  Mr. LeBaron took an action to provide the Department of Health a memo that identifies the start and end dates for the six month testing to be performed on the Tunnel Number 2 stack.

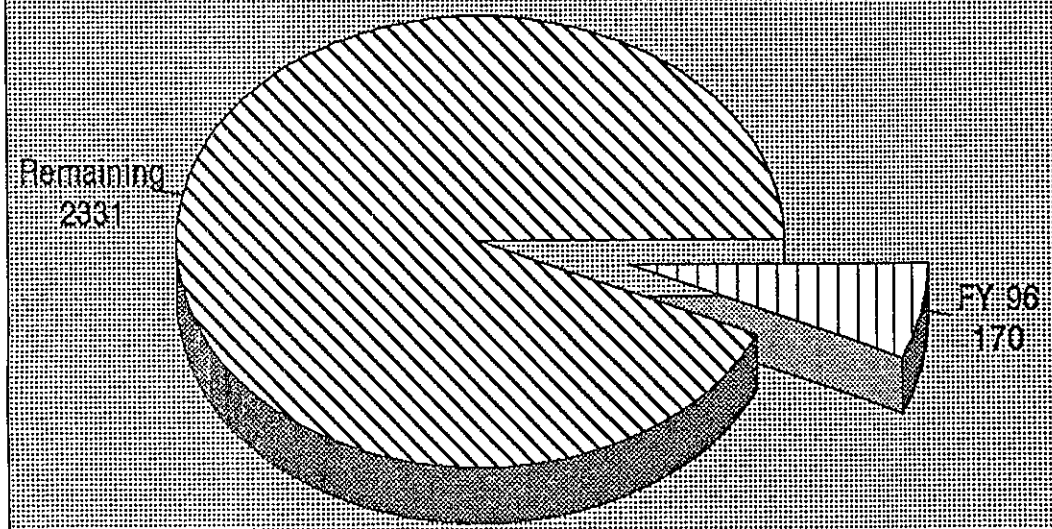


Turnover Team

2469 End Points Identified

Note: All end points are not created equal.

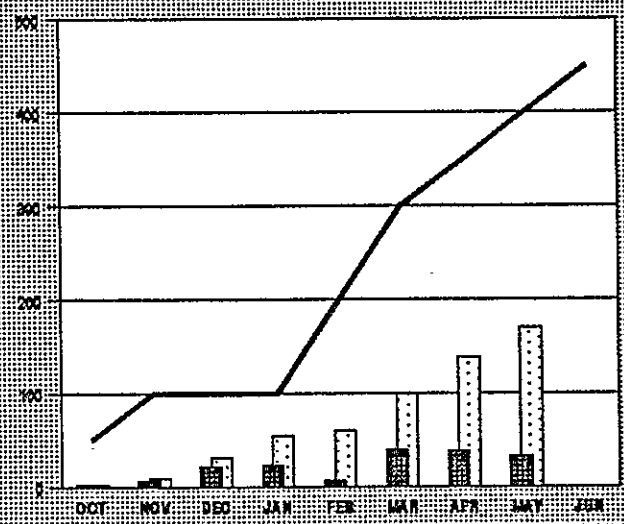
Project to Date End Points Signed



FUNCTIONAL AREAS COMPLETED
(58 AREAS TOTAL)

PERCENT COMPLETE (0 OF 58)

END POINTS SIGNED



EP'S SIGNED	2	7	22	23	6	40	38	32	
CUMULATIVE	2	9	31	54	60	100	138	170	
GOAL	50	100	100	100	200	300	350	400	450

EP'S SIGNED CUMULATIVE GOAL

ENDPTS

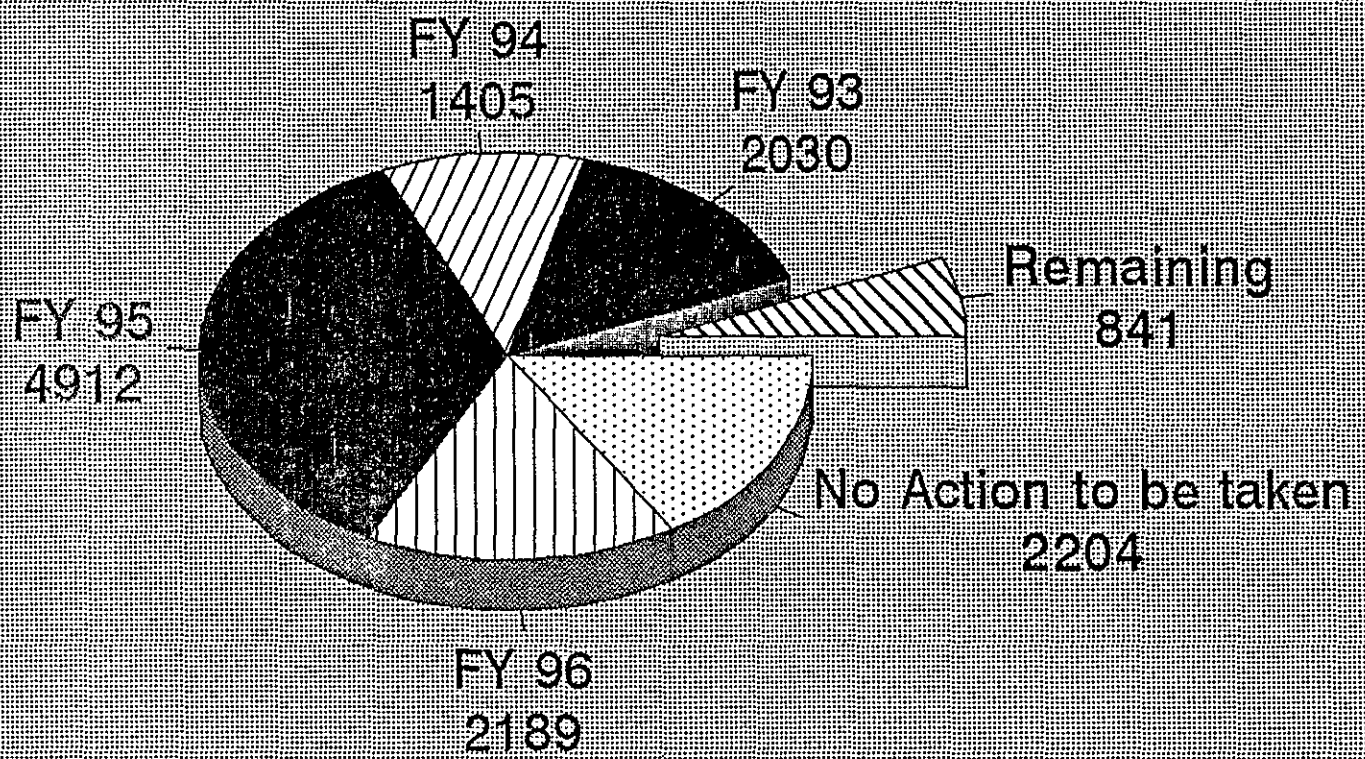
TURNOVER.CH3

Support

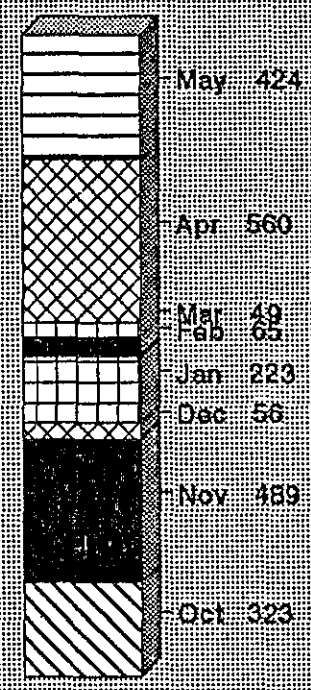
Instrument Deactivation

13,581 Instruments Identified

Project to Date Instruments Deactivated



Instruments Deactivated FY 96



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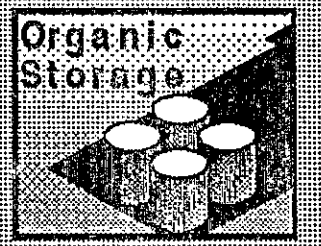
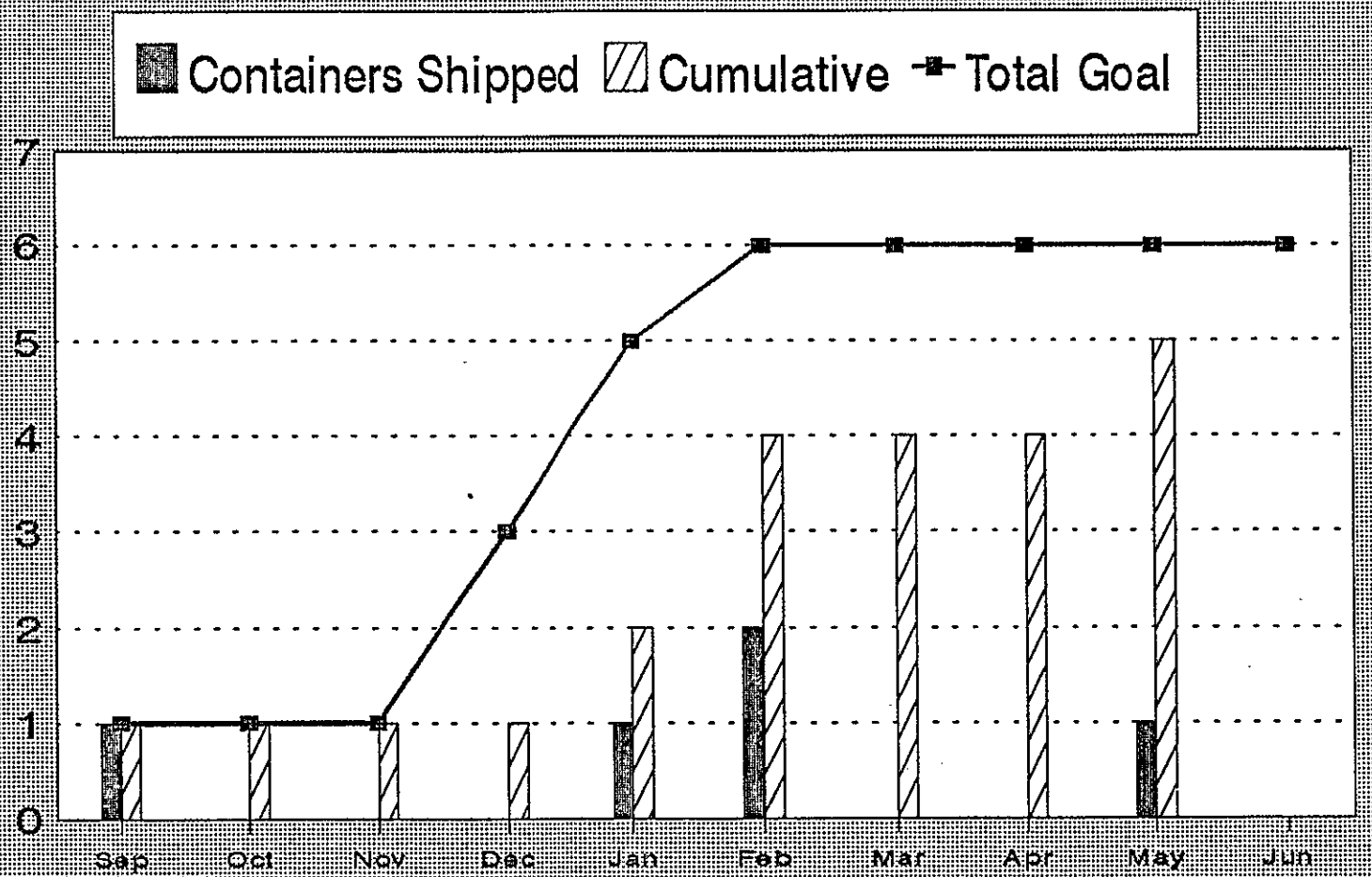


CONTAMINATED ORGANIC DISPOSITION

Summary Schedule Status



Containers Shipped	1	0	0	0	1	2	0	0	1	
Cumulative	1	1	1	1	2	4	4	4	5	
Total Goal	1	1	1	3	5	6	6	6	6	6

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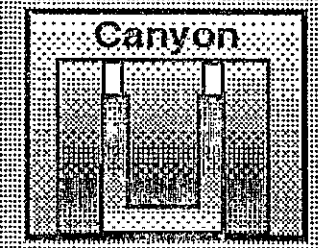
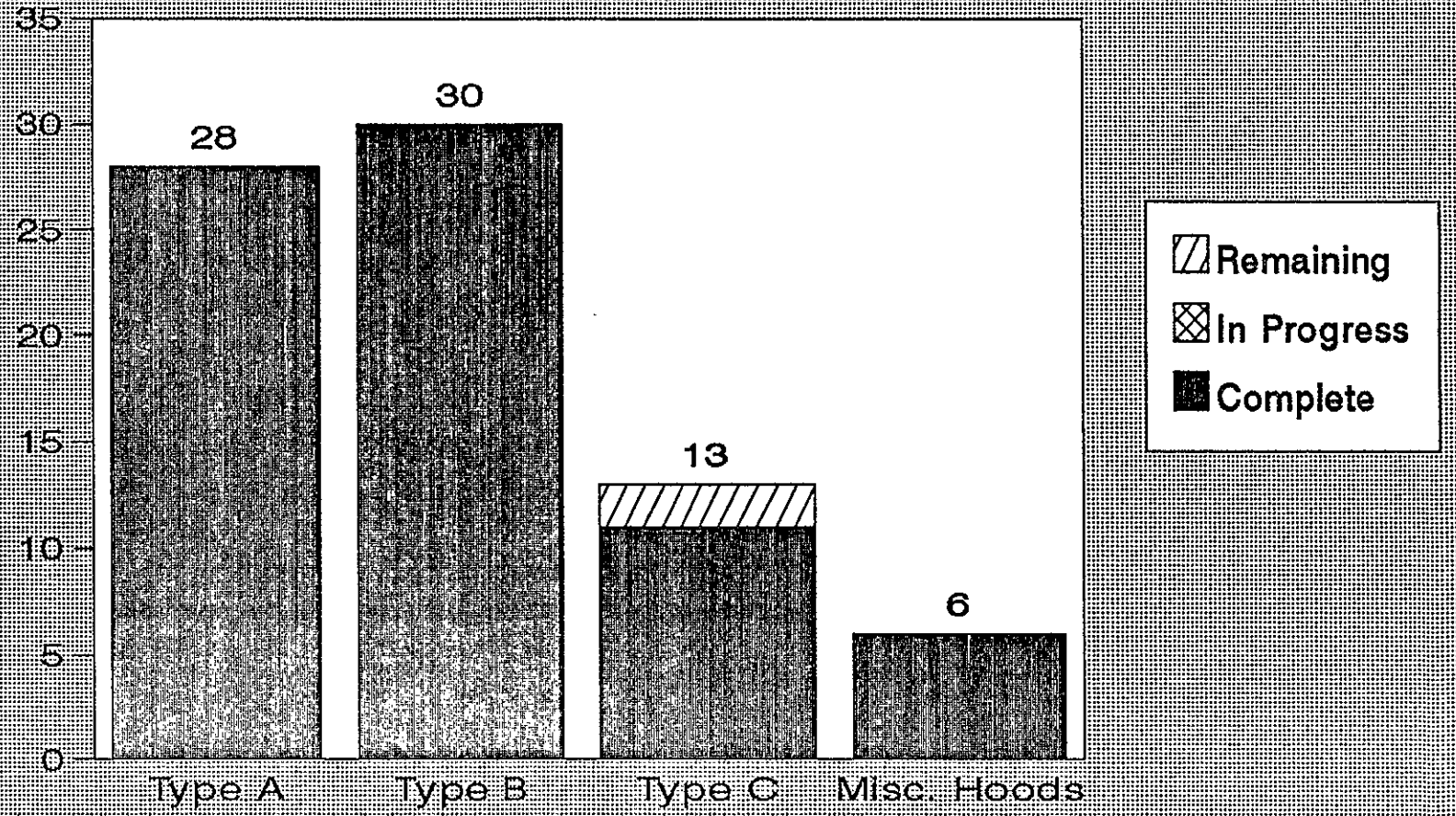


Sample Gallery Deactivation

Summary Schedule Status

Samplers Deactivated

Total Goal = 77 Samplers



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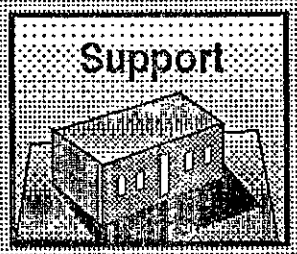
PUREX DEACTIVATION STATUS

June 12, 1996

G. J. LeBaron



Turnover Team

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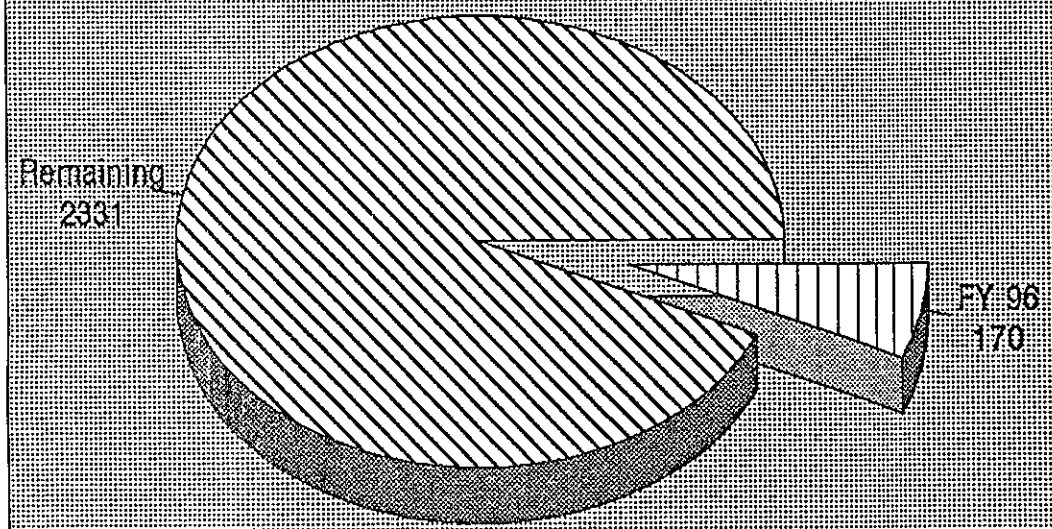

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(58 AREAS TOTAL)

PERCENT COMPLETE (0 OF 58)

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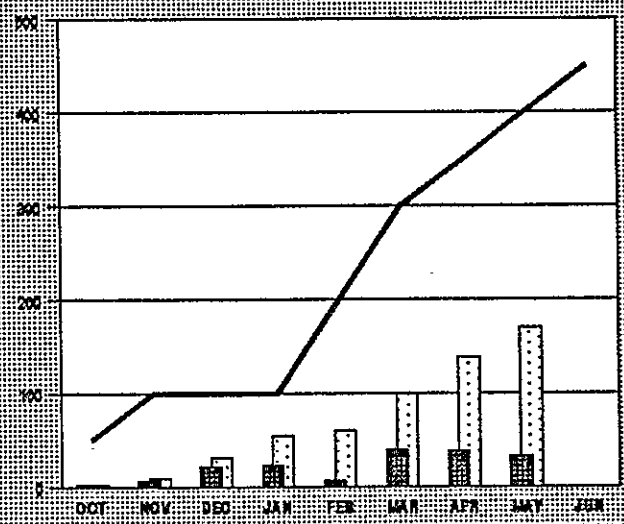

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EP'S SIGNED CUMULATIVE GOAL

ENDPTS

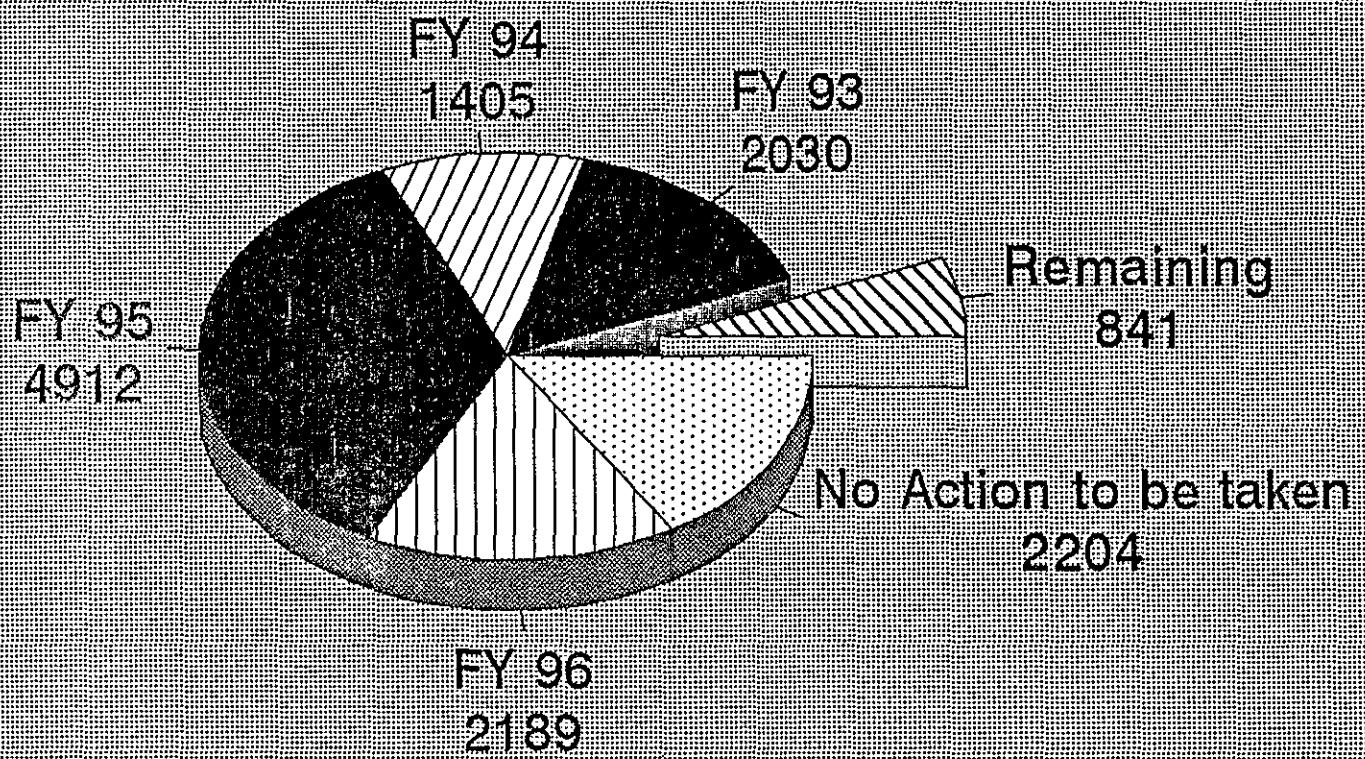
TURNOVER.CH3

Support

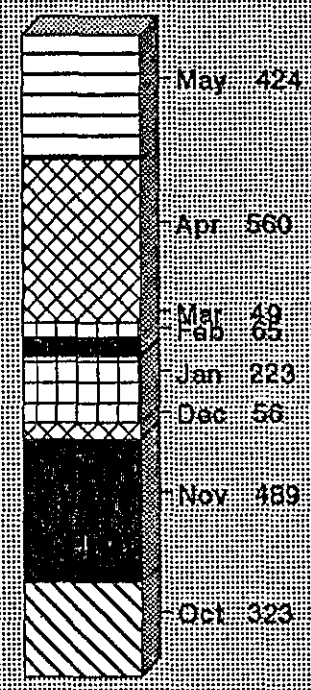
Instrument Deactivation

13,581 Instruments Identified

Project to Date Instruments Deactivated



Instruments Deactivated FY 96



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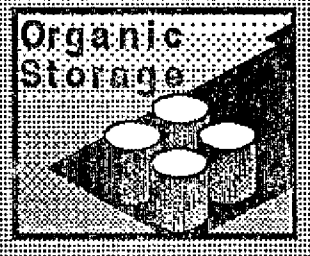
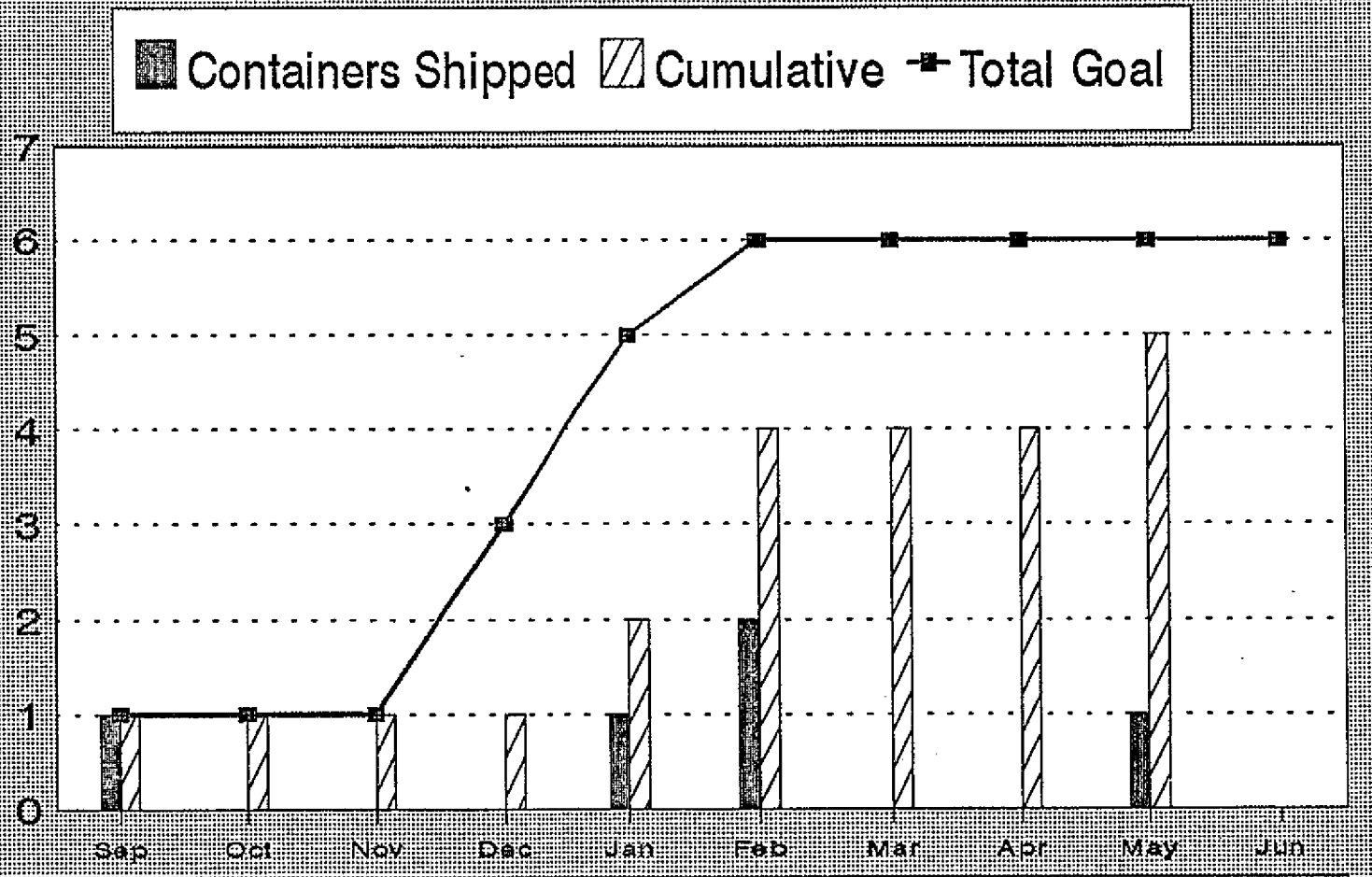


CONTAMINATED ORGANIC DISPOSITION

Summary Schedule Status



	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Containers Shipped	1	0	0	0	1	2	0	0	1	
Cumulative	1	1	1	1	2	4	4	4	5	
Total Goal	1	1	1	3	5	6	6	6	6	6

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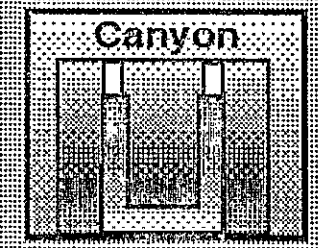
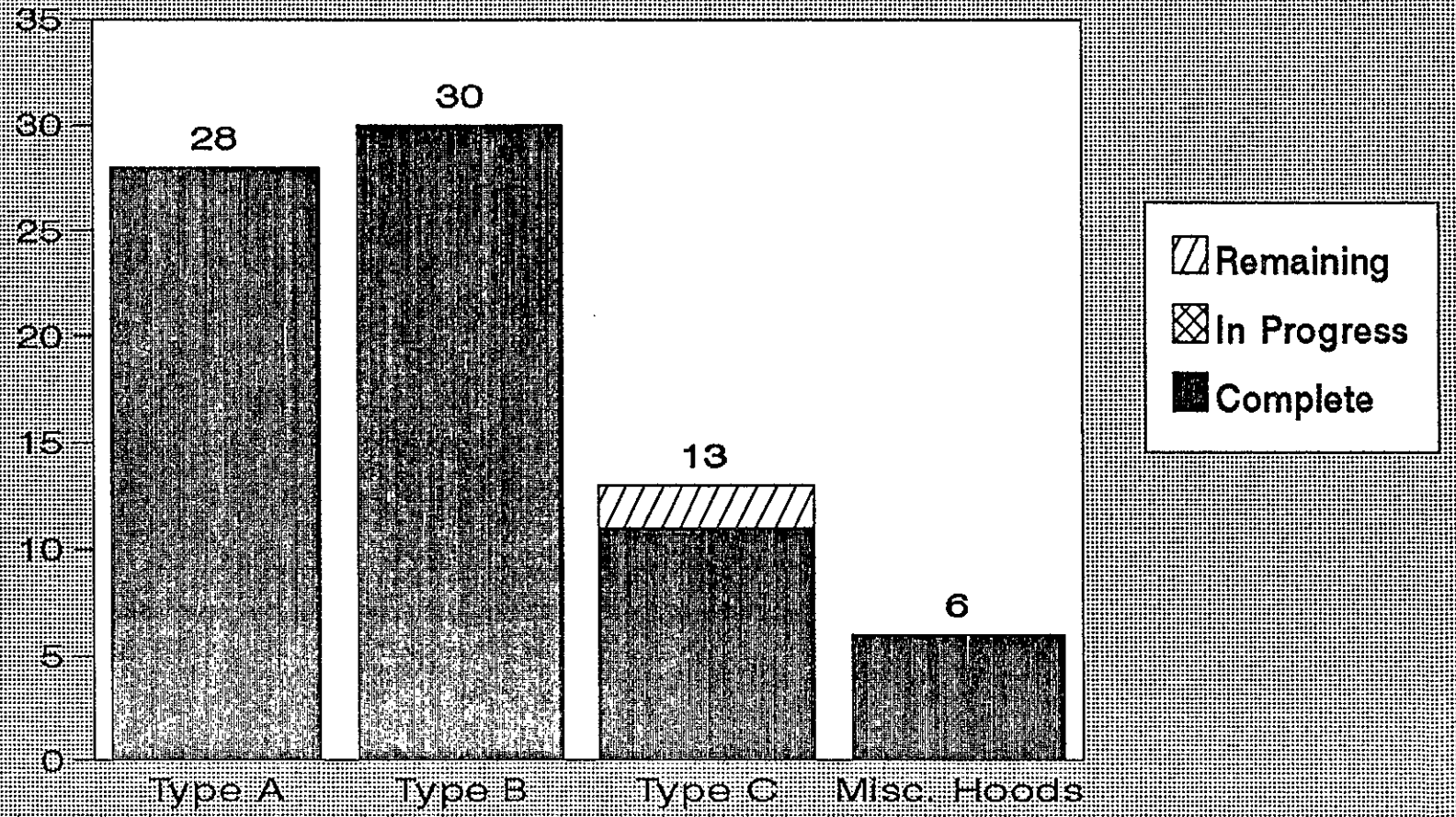


Sample Gallery Deactivation

Summary Schedule Status

Samplers Deactivated

Total Goal = 77 Samplers



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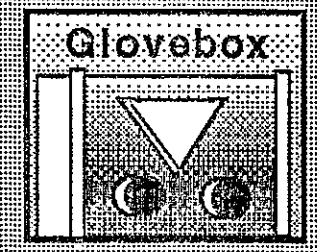
GALLERY DEACTIVATION

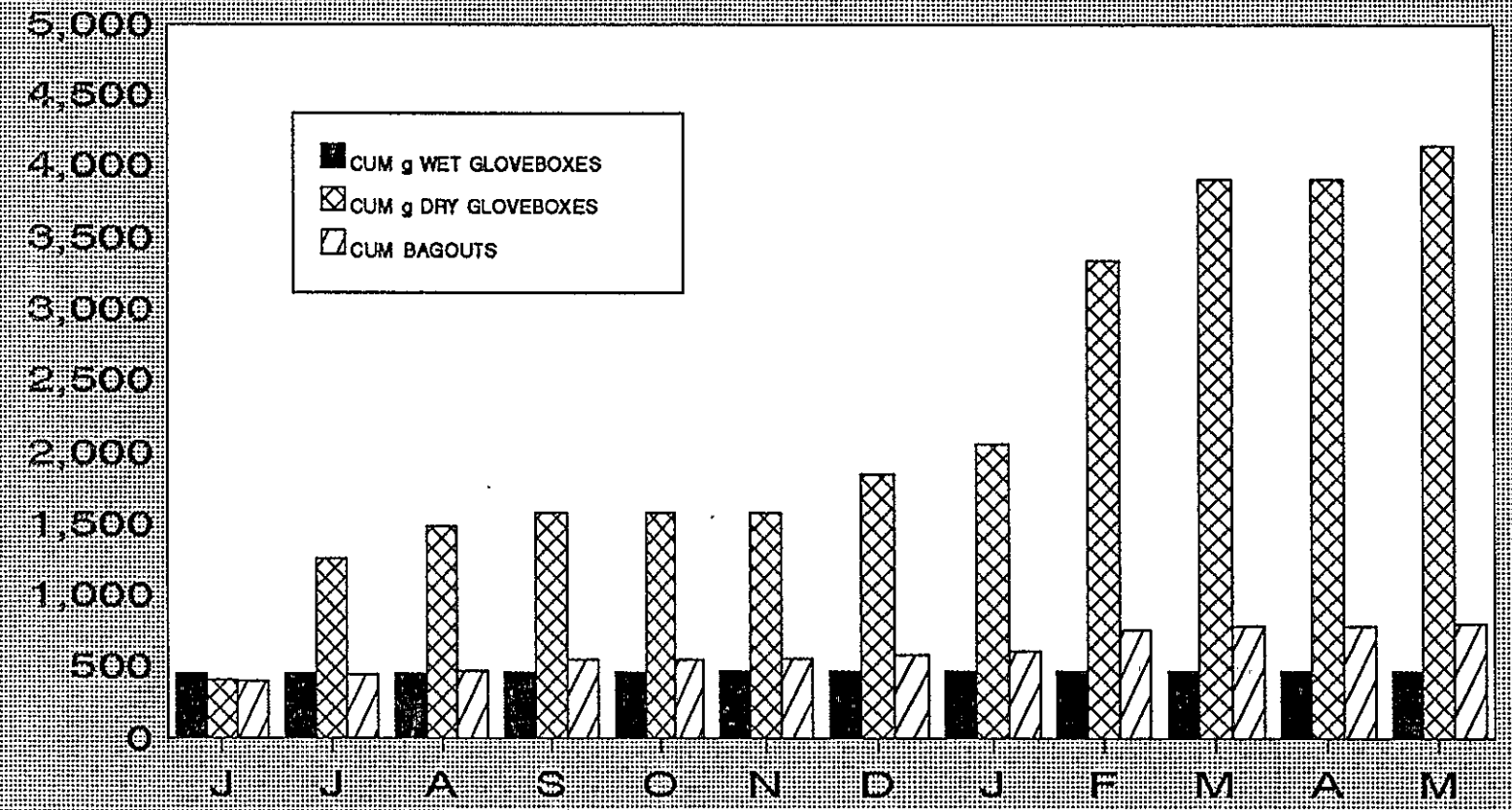
- Storage Gallery
  - Complete housekeeping/postings
  - Complete by mid-June
- Sample Gallery
  - Complete header isolation
  - Stabilize final samplers/monitors
  - Complete by mid-July
- P & O Gallery (White Room)
  - Remove/fix contamination
  - Complete by late July



N CELL DEACTIVATION

Summary Schedule Status

GRAMS PLUTONIUM/NUMBER OF BAGOUTS REMOVED



CUM g WET GLOVEBOXES	448	448	448	462	462	464	464	464	464	464	464	464
CUM g DRY GLOVEBOXES	409	1,257	1,482	1,579	1,579	1,579	1,845	2,054	3,337	3,905	3,905	4,146
CUM BAGOUTS	401	445	468	548	548	555	581	604	755	784	784	798

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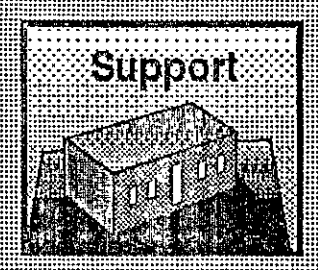
GLOVE BOX DEACTIVATION

- Q Cell - Complete
- PR Room - Complete
- N Cell
  - Seal last ports to glove boxes
  - Complete by mid-June



PUREX Ancillary Building Deactivation

Summary Schedule Status

Category I (Radiological and Chemical Concerns)

- 203-A
- 206-A Fractionator
- 212-A Load Out
- 291-AH Sample Shack
- 291-AD Ammonia Off Gas Building
- 294-A Instrument Shack
- U-Cell
- R-Cell
- 293-A Dissolver Off Gas Building

Category II (Chemical Concerns Only)

- 211-A Cold Chemical Storage
- 202-A-1 Storage Units #1 and #2
- 214-A Misc. Storage/90 Day Pad
- 2714-A Dry Chemical Storage
- 281-A Emergency Generators

Maintenance Storage Units

- SMSU Storage 09
- P008
- P009
- P010
- P011
- P012

Category III (Radiological Concerns Only)

- #1 Tunnel Door Building
- #2 Tunnel Door Building
- 157 Diversion Box
- 202-A Pump Pits (?) (6-10)
- 202-A South Change Trailer
- 213-A Regular Maintenance Shop
- 2711-A-1 Plant Vacuum Pumps
- 2712-A N Cell Dry Air
- 302-A Catch Tank Risers
- C Cell Airlock
- F Cell Airlock
- MO-332, 203-A Change Trailer #2
- PR Dock Storage Boxes #1 and #2
- Railroad Cut Pedestrian Change Trailer
- Railroad Cut Storage Shed
- Railroad Cut Change Trailer

Category IV (Liquid Effluents)

- 295-A ASD
- 295-AA SCD
- 295-AB PDD (OLD)
- 295-AC Chemical Sewer
- 295-AD CWL Shack
- 295-AD CWL Pit
- 295-AE PDD (new)

Category V (Gaseous Effluents)

- 292-AA PR Sample Shack
- 296-A-1 Filter Boxes (PR)
- 296-A-2 Sample Shack/Filter Box (EHW)
- 296-A-3 Sample Shack/Filter Box (EHE)
- 296-A-5A Sample Shack/Filter Box (ELW)
- 296-A-5B Sample Shack/Filter Box (ELE)
- 296-A-6 Sample Shack/Filter Box (EGE)
- 296-A-7 Sample Shack/Filter Box (EGW)
- 296-A-8 Sample Shack/Filter Box (EW)
- 296-A-10 Sample Shack/Filter Box (ET)
- 296-A-14 Sample Shack/Filter Box (EB)
- 296-A-24 Sample Shack/Filter Box (EN)

Category VI (Clean Areas)

- 206-A Heating Tower
- 206-A Instrument Enclosure #1
- 206-A Instrument Enclosure #2
- 214-B/C/D Misc. Storage/90 Day Pad
- 271-AB
- 2701-A Badge House
- MO-023
- MO-035
- MO-323
- MO-409
- MO-606
- MO-707
- R Cell Heating Tower
- West PRV Steam Station

Category VII (Operable)

- 291-AB Sample Shack
- 291-AC Instrument Shack
- 291-AE 4th Filter Building
- 291-AG Instrument Shack
- 291-AJ Instrument Shack
- 292-AB Main Stack Building

Legend

● = COMPLETE ◇ = IN PROGRESS ⊘ = REMAINING

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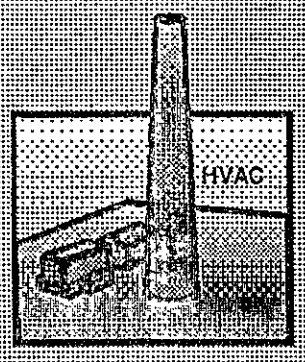
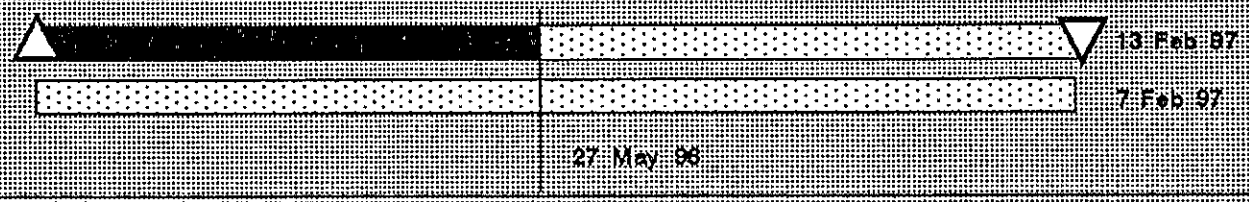


HVAC SYSTEM CONSOLIDATION

Summary Schedule Status



NOTE: Pre-Switchover modifications are scheduled to be complete October 1996

PRE-SWITCHOVER MODS AND PREPARATION

BASEMENT	SAMPLE GALLERY	P&O GALLERY	MISCELLANEOUS
COMPLETED	**COMPLETED**	**COMPLETED**	**COMPLETED**
• 3 MODS • 5 WORK PKGS • 5 PROCUREMENT • 4 FABS	• 2 MOD • 3 WORK PKG • 5 PROCUREMENT • 2 FAB	• 1 MOD • 2 WORK PKG • 3 PROCUREMENT • 1 FAB	• 2 WORK PKGS • 4 PROCUREMENTS • 1 MOD
REMAINING	**REMAINING**	**REMAINING**	**REMAINING**
• 9 MODS • 6 WORK PACKAGES • 13 PROCUREMENT • 15 FABS	• 1 MODS • 1 WORK PACKAGES • 6 PROCUREMENT • 6 FAB	• 1 MOD • 1 WORK PACKAGE • 2 PROCUREMENT • 2 FABS	• 6 MODS • 6 WORK PACKAGES • 7 PROCUREMENTS • 5 FABS

SWITCHOVER MODS ONLY

BASEMENT	SAMPLE GALLERY	P&O GALLERY	MISCELLANEOUS
COMPLETED	**COMPLETED**	**COMPLETED**	**COMPLETED**
REMAINING	**REMAINING**	**REMAINING**	**REMAINING**
• 12 MODS	• 7 MODS	• 3 MODS	• 3 MODS

LABORATORY HVAC DEACTIVATION

- Lab rooms complete
- Complete lab HVAC room by end of July
- Shut down lab stacks by end of July

WASTE FOR STORAGE TUNNEL

324 Building Waste

- All shipments received
- Waste being transferred to storage tunnel

TC-4 Rail Tank Cars

- Three cars being placed in tunnel

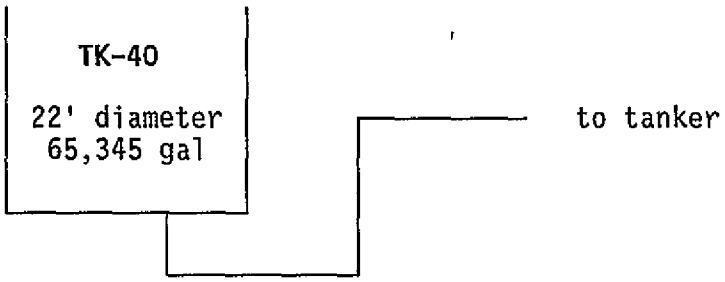
Attachment 6

PUREX Plant/Storage Tunnels Project Managers Meeting
2400 Stevens Center, Room 2664
Richland, Washington

June 12, 1996
1:30 p.m. - 3:30 p.m.

REMOVING THE ORGANIC SOLUTION FROM TK-40

REMOVING the ORGANIC SOLUTION from TK-40



Tank 40, located in the 211-A area at PUREX, is a 22 feet diameter, 65,345 gallon capacity tank with a flat bottom that has been used to store a 75 wt.% Normal Paraffin Hydrocarbon (NPH)/25 wt.% Tri-Butyl Phosphate (TBP) solution, prior to shipping the LSA organic solution to Tennessee. TK-40 was emptied by pumping the solution from the bottom of the tank. Empty means that there was not a continuous layer of solution over the bottom of the tank but only small pools of solution in the bottom because the bottom of the tank is not perfectly smooth. This empty tank was then flushed with approximately 495 gallons (about 2 inches of solution over the bottom of the tank) of non-regulated organic solution (tetradecane). The flush ensured that any solution that may remain in TK-40 could be considered non-dangerous by reducing the Tri-Butyl Phosphate concentration to less than 10 wt%. This tank was emptied again by pumping the flush solution from the bottom of the tank. Since a RCRA sample was not only near impossible due to the lack of solution but it was not needed as shown below:

Actual Case (relying on visual inspection)

1) A visual inspection after emptying the tank showed that the most solution the tank may have held prior to the addition of the flush solution would be 23.7 gallons. This was done by noting the pools of liquid on the bottom of the tank and making a conservative assumption that there was at most a 1/10 of an inch of solution covering the entire bottom of the tank. This assumption gave the following results:

$$(3.14) \times (0.1\ inches) \times \left(\frac{ft}{12\ inches}\right) \times (11\ ft)^2 \times \left(\frac{7.48\ gal}{ft^3}\right) = 23.7$$

2) With the NPH/TBP mixture having a SpG of 0.797, 23.7 gallons corresponds to 157.31 lbs of organic solution.

$$(23.7\ gal) \times \left(8.33\ \frac{lb}{gal}\right) \times (0.797) = 157.31\ lbs\ of\ solution$$

3) With the addition of the 495 gallons (3121.4 lbs) of non-regulated organic solution (tetradecane), the concentration of the TBP results in approximately 1.2 wt%.

$$\frac{(157.31\ lbs) \times (0.25)}{(157.31\ lbs + 3121.37\ lbs)} = \frac{39.33\ lbs}{3278.68\ lbs} = 1.2\ wt.\%\ TBP$$

Worst Case (relying on WF readings)

1) TK-40 was emptied to a WF reading of 0.02 which corresponded with 1666.4 lbs of solution or 251 gallons of NPH/TBP mixture. This volume would constitute 1.06 inches of solution over the entire bottom of the tank.

2) With the 25 wt.% TBP/75 wt.% NPH mixture, the remaining solution in TK-40 consists of 416.6 lbs of TBP,

$$(1666.4\ lbs) \times (0.25) = 416.6\ lbs$$

and 1249.8 lbs of NPH.

$$(1666.4\ lbs) \times (0.75) = 1249.8\ lbs$$

3) Approximately 495 gallons of tetradecane (SpG of 0.757) were added to TK-40 as a flush solution which corresponds to an addition of 3121.4 lbs of solution.

$$(495\ gallons) \times (0.757) \times (8.33\ lbs/gallons) = 3121.4\ lbs$$

4) The total amount of solution in TK-40 with the flush solution would be 4787.8 lbs of solution.

$$1666.4\ lbs + 3121.4\ lbs = 4787.8\ lbs$$

5) Therefore, the maximum concentration of TBP remaining in TK-40 would be 8.7 wt% TBP.

$$\frac{416.6\ lbs\ TBP}{4787.8\ lbs\ solution} = 0.087\ (8.7\ wt\%\ TBP)$$

This flush solution was then emptied from the tank and into the tanker.

Therefore, based on very conservative estimates, the concentration of any TBP remaining in Tk-40 was reduced to the range of 1.2 wt.% - 8.7 wt.% TBP which is below the 10 wt% at which TBP is regulated, thereby making any residual solution in Tk-40 non-dangerous. Also, the tank was emptied to less than 23.7 gallons, less than 0.036% of the total tank volume.

REPRODUCTION SERVICES REQUEST

Date Ordered	Date/Time Desired	Reference No.
8/15/96	8/19/96 ☐ Critical Date	

PAYING CUSTOMER	Payroll No.	Name	Org. Code	Company	Charge Code
	84519	Sandy Mincey	01843	WHC	KPS1B

ORDERED BY	Payroll No.	Name	Telephone No.
		Same	373-2476

DELIVER TO	Payroll No.	Name	Telephone No.
		—	

☒ Call - Will Pickup
☐ Hold - Will Call
☐ Mail - MSIN _____
☐ Mailroom for Distribution
Distribution Date _____

Called

☐ Courier Company _____
☐ Transportation Company _____

Complete for Courier/Transportation:
Bldg. _____
Room _____
Area _____

ITEM 1

Title/Drawing No.(When more than one, list in numerical order)/Description of Originals: Meeting Minutes Transmittal Purex Plant/Storage

Form No. — Rev. Date

Return Originals To: ☒ With Order ☐ Engineering Files ☐ Other _____

No. Originals	No. of Copies Each	Finished Size	Paper Stock/Color	Paper Weight	Ink
25	10				

☒ As Is ☐ Two Sided, Head to Head ☐ Mylar Tab Dividers (Off-site) ☐ Provide Blank Backs
☐ One Sided ☐ Two Sided, Heat to Foot ☐ Paper Tab Dividers (On-site) No. of Backs _____

☐ Collate ☒ Staple ☐ Tape Bind ☐ Score ☐ Punch
☐ Fold ☐ Upper Left Corner ☐ Comb Bind ☐ Perforate No. Holes _____
☐ Flat ☐ 2 Staples on Left ☐ Screw Post ☐ Pad Center to Center _____
☐ Roll ☐ Saddle Stitch Binding Position _____ Hole Size _____
Position _____

Additional Instructions for Engineering Reproduction:
☐ Bid Package ☐ Vellum ☐ Blueline ☐ Standard Fold ☐ Fold to Fit in Sleeves
☐ Vault Replacement ☐ Mylar ☐ Blackline ☐ Document Fold ☐ Enlargement/Reduction

Other Instructions:

ITEM 2

Title/Drawing No.(When more than one, list in numerical order)/Description of Originals

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No. Originals	No. of Copies Each	Finished Size	Paper Stock/Color	Paper Weight	Ink

☐ As Is ☐ Two Sided, Head to Head ☐ Mylar Tab Dividers (Off-site) ☐ Provide Blank Backs
☐ One Sided ☐ Two Sided, Heat to Foot ☐ Paper Tab Dividers (On-site) No. of Backs _____

☐ Collate ☐ Staple ☐ Tape Bind ☐ Score ☐ Punch
☐ Fold ☐ Upper Left Corner ☐ Comb Bind ☐ Perforate No. Holes _____
☐ Flat ☐ 2 Staples on Left ☐ Screw Post ☐ Pad Center to Center _____
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