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ENGINEERING DATA TRANSMITTAL

Page 1 of 1

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WRAP LOW LEVEL WASTE (LLW) GLOVEBOX OPERATIONAL TEST REPORT

KJ Leist

Waste Management Federal Services of Hanford, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

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Abstract: The purpose of this test was to verify the Plant Operating Procedures related to the LLW Process Gloveboxes are accurate so operations within the gloveboxes can be performed safely and desired results obtained. And to verify the Data Management System could properly interface with the Plant Control System.

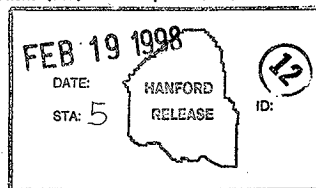
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**WASTE RECEIVING AND PROCESSING FACILITY
(WRAP)**

**LOW LEVEL WASTE (LLW) PROCESS
GLOVEBOXES 101, 102, 104 & 105
OPERATIONAL TEST REPORT**

HNF-SD-W026-OTR-015 Rev. 0

WASTE MANAGEMENT HANFORD COMPANY - PROJECT W-026

January 28, 1998

LLW GLOVEBOXES 101, 102, 104 & 105 OPERATIONAL TEST REPORT
HNF-SD-W026-OTR-015 Rev. 0

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LLW GLOVEBOXES 101, 102, 104 & 105 OPERATIONAL TEST REPORT

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INTRODUCTION

The Low Level Waste (LLW) Process Gloveboxes are designed to:

- Receive a 55 gallon drum in an 85 gallon overpack in the Entry glovebox (GB101).
- Open and sort the waste from the 55 gallon drum, place the waste back into drum and relid in the Sorting glovebox (GB102). In addition, waste which requires further examination is transferred to the LLW RWM Glovebox via the Drath & Schraeder Bagless Transfer Port (DO-07-201) or sent to the Sample Transfer Port (STC).
- Crush the drum in the Supercompactor glovebox (GB104).
- Place the resulting puck (along with other pucks) into another 85 gallon overpack in the Exit glovebox (GB105).

The status of the waste items is tracked by the Data Management System (DMS) via the Plant Control System (PCS) barcode interface. As an item is moved from the entry glovebox to the exit glovebox, the Operator will track an items location using a barcode reader and enter any required data on the DMS console.

The Operational Test Procedure (OTP) will perform evolution's (described below) using the Plant Operating Procedures (POP) in order to verify that they are sufficient and accurate for controlled glovebox operation.

PURPOSE

The intent of this test was to satisfy two main objectives:

- a. Verify that the Plant Operating Procedures related to the LLW Process Gloveboxes are accurate so that operations within the gloveboxes can be performed safely and desired results obtained.

During the performance of the OTP, the POP's were redlined to correct errors found during testing. These corrections were incorporated into updated revisions of the POP's. The original POP's from which this OTP was conducted are included with this (Operational Test Report) OTR so the evolution to the present state of the POP's can be traced.

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- b. Verify that the Data Management System (DMS) could properly interface with the Plant Control System (PCS) to control and display the data obtained during drum, sample/packet or puck movement and treatment.

When both of the above objectives are met, the LLW Process Gloveboxes would be considered ready for operation.

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DESCRIPTION

The Operational Test Procedure (HNF-SD-W026-015) was started on August 8, 1997 and consisted of six main sections as described below. A complete description is included at the beginning of each Test Case under General Description.

a. LLW Glovebox Manual Operation

All three glovebox access ports (DO-101, DO-105 & DO-106) are operated in manual mode. The respective lift table is placed in manual mode and the drum is mated to the port. Then by using manual mode for the Bagless Transfer port or the maintenance menus for the Entry/Exit ports, a manual open/closed cycle is completed.

The Transfer port (DO-102) and port seal will be cycled in manual mode.

The Transfer Car, Lidder/Delidder Fixture, Drum Grabber/Tilt Unit & Sorting Table in the Sorting glovebox will be exercised in manual mode.

b. LLW Glovebox Automatic Test Case 1

Waste Processing Drum 1 will be loaded into the Entry glovebox and then sent to the Sorting glovebox via the Transfer port. The drum will be delidded, dumped on the sorting table and samples loaded in the Sample Transport Container (STC) for analysis. The remaining contents will be dumped back into the drum and relidded. The drum will be sent to the exit glovebox without being compacted and loaded into an overpack:

The Data Management System (DMS) will track the progress of the drum and samples by barcode throughout the evolution.

c. LLW Glovebox Automatic Test Case 2

Waste Processing Drum 2 will be loaded into the Entry glovebox and then sent to the Sorting glovebox via the Transfer port. The drum will be delidded, dumped on the sorting table and samples packets loaded on the transfer stand for transfer to the LLW/RWM glovebox. The remaining contents will be dumped back into the drum and relidded. The drum will be sent to the Compactor on the transfer car. After being compacted, the remaining puck is barcoded and placed in an overpack drum.

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The Data Management System (DMS) will track the progress of the drum and samples by barcode throughout the evolution.

d. LLW Glovebox Automatic Test Case 3

Waste Processing Drum 3 will be loaded into the Entry glovebox and then sent to the Sorting glovebox via the Transfer port. Instead of stopping at the delid position, the transfer car will take the drum to the Compactor without opening. After being compacted, the remaining puck is barcoded and placed in an overpack drum.

The Data Management System (DMS) will track the progress of the drum and samples by barcode throughout the evolution.

e. LLW Glovebox Automatic Test Case 4

Waste Processing Drum 4 will be loaded into the Entry glovebox and then sent to the Sorting glovebox via the Transfer port. The drum will be delidded, dumped on the sorting table and samples packets loaded on the transfer stand for transfer to the LLW/RWM glovebox. The remaining contents will be dumped back into the drum and relidded. The drum will be sent to the Compactor on the transfer car. After being compacted, the remaining puck is barcoded and placed in an overpack drum.

The Data Management System (DMS) will track the progress of the drum and samples by barcode throughout the evolution.

f. LLW Glovebox Restart

The Glovebox Emergency Stop button is pushed during a port opening sequence. Equipment status is recorded for recovery.

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TEST RESULTS

Exception Test Reports (ETR's) Summary

35 ETR's were written during test performance, of which 10 are DMS related. As of December 17, 1997, all ETR's have been cleared.

Additional Items

WRP1-OP-0703 (Glovebox Lift Table Operation) was not referenced and therefore not verified in this OTP.

The "Glovebox Restart" portion of the OTP lacked enough depth to really verify that the glovebox can be successfully restarted for a selection of scenarios. Only one Emergency Stop pushbutton was checked. The balance of the section was merely a status check of the equipment in the glovebox. Operation Procedure OP-0722 should be enhanced to include flow charts or the like to demonstrate a logical course of action after the status of the systems are known.

CONCLUSIONS AND RECOMMENDATIONS

- a. The STC Port can be open when the STC has been removed; no mechanical interlock exists. This can result in a loss of glovebox differential pressure and possible contamination of the STC port seal.
- b. The Bagless Transfer Port DO-07-105 operation should be incorporated into the existing PLC interface instead of through a separate controller for the following reasons:
 - The operator can only perform open and close functions when in automatic mode. Manual operation and recovery must be performed from the D&S controller.
 - There is no feed back to the operator in maintenance mode as to the position of the port components as there is for the entry/exit ports in this glovebox.
 - The controller is programmed in German, requiring outside support for program changes.
 - By eliminating the controller, the system is made simpler and therefore more reliable.

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- c. Permanent bar code charts should be added to the glovebox. During the OTP barcodes were taped to a sheet of paper which in time will deteriorate and require replacement.
- d. Since all ETR's have been cleared the Operational Test Procedure can be considered passed. However, modifications to the gloveboxes have been made since the completion of the OTP and will require verification prior to operation along with any other items that have been changed or reworked.

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REFERENCES

Plant Operating Procedures

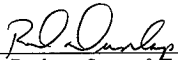
WRP1-OP-0702	Restart LLW Glovebox Operation
WRP1-OP-0706	Packet NDE Operation
WRP1-OP-0713	LLW Entry Glovebox Operation
WRP1-OP-0714	LLW Sorting Glovebox Operation
WRP1-OP-0715	LLW Supercompactor Operation
WRP1-OP-0716	LLW Exit Glovebox Operation
WRP1-OP-0719	LLW Gloveboxes Manual Operation
WRP1-OP-0722	Restart RWM Glovebox Operation

APPENDICES

Appendix A - Exception Test Reports

Appendix B - DMS Database Printouts

Appendix C - Plant Operating Procedures

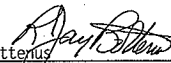
 1/25/98
R.D. Dunlap Startup & Test Group

Author

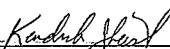
J. J. Shaffer III
Print Name/Signature

APPROVAL DESIGNATOR SQ

PROCEDURE APPROVAL SIGNATURES


RJ Botterus
WRAP 1 Startup Manager

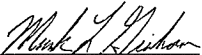
7/21/97
Date


KJ Leist
WRAP 1 COG Engineer

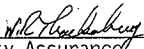
7/17/97
Date


RJ Botterus
WRAP 1 Engineering Manager

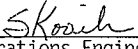
7/21/97
Date


ML Graham
WRAP 1 Industrial Safety

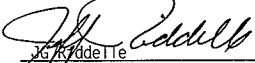
7/17/97
Date


WR Thackaberry
WRAP 1 Quality Assurance

7-21-97
Date


SL Kooiker
WRAP 1 Operations Engineer

7-21-97
Date


JG Rydelle
WRAP 1 Operation Manager

7/21/97
Date


HC Boynton
WRAP 1 Environmental
Compliance Officer

7/17/97
Date

Original signatures on file
with WRAP 1 Records Management Specialist

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1.0 PURPOSE

- 1.1 This procedure has been prepared to verify that the Low Level Waste (LLW) Process Glovebox line operates in accordance with system design and specifications. This procedure will also validate portions of the WRAP-1 plant operating procedures listed in Section 7.2.

2.0 SCOPE

- 2.1 This Operating Test will demonstrate operability and waste processing functions for the following system components, collectively referred to as the "LLW Gloveboxes":

LLW Entry Glovebox, (107-GB-07-101)
LLW Sorting Glovebox, (107-GB-07-102)
LLW Supercompactor Glovebox, (107-GB-07-104)
LLW Exit Glovebox, (107-GB-07-105)

- 2.2 Other interfacing systems outside the LLW Glovebox include the Internal Transport System, the Data Management System, the Plant Control System, and the Glovebox Barcode System.

- 2.3 When possible, this test will demonstrate all mechanical and control operations in manual and automatic modes. Restart of the glovebox from an emergency shutdown will also be demonstrated.

3.0 ACRONYMS

- 3.1 AGV - Automatic Guided Vehicle
- 3.2 DMS - Data Management System
- 3.3 HS - Hand Switch
- 3.4 OCS - Operating Control Station
- 3.5 OIU - Operator Interface Unit
- 3.6 OP - Operating Procedure
- 3.7 OTP - Operational Test Procedure
- 3.8 PCS - Plant Control System
- 3.9 PLC - Programmable Logic Controller
- 3.10 RCT - Radiological Control Technician
- 3.11 TD - Test Director
- 3.12 TE - Test Engineer
- 3.13 MC - Maintenance Craft

4.0 PRECAUTIONS AND LIMITATIONS

- 4.1 IF during performance of this procedure, any of the following conditions are found:

- Any equipment malfunction which could prevent fulfillment of functional requirements.
- Personnel error or procedural inadequacy which could prevent fulfillment of OTP procedural requirements.

THEN, IMMEDIATELY NOTIFY the TD and TE.

- 4.2 The TD and TE shall choose to stop work and place equipment in a safe condition based on the significance of a malfunction, error, or inadequacy.
- 4.3 Contact the TD and TE for additional instructions if changing plant conditions affect work or delays in work extending beyond (testing) shift.
- 4.4 IF any waste is generated during performance of this OTP, THEN, consult Environmental Compliance Officer for specific instructions to ensure compliance with HNF and DOE environmental standards, as applicable, for correct disposal.
- 4.5 Comply with HNF and plant/facility specific lock and tag and over-tagging procedures, as applicable.
- 4.6 Measuring and Test Equipment (M&TE), except timing devices used in the performance of this OTP, shall meet the following requirements:
- Be within its current calibration cycle as evidenced by an affixed calibration label.
 - Be capable of the desired range.
 - Have an accuracy (consistent with state-of-the-art limitations) equal to or greater than the accuracy specified in the OTP.
- 4.7 The equipment number and calibration information of M & TE used to perform this test shall be recorded on the data sheets.

- 4.8 Timing measurements shall be made with commercially available timing devices.
- 4.9 All test data readings are to be taken and recorded for each location where the capability exists (i.e. local instrument, OIU, DMS terminal).
- 4.10 All test data readings are to be taken and recorded for each location where the capability exists (i.e. local observable instrument (LOI), operators screen (OS)).

5.0 RESPONSIBILITIES

5.1 Test Director:

- Schedules and reschedules operating tests as required.
- Notifies test participants before testing begins.
- Notifies personnel prior to testing of special safety precautions and conditions during testing.
- Schedules and conducts a daily pretest meeting with test participants.
- Record Data Exceptions and support OTP notes as required on the Attachment 1, TEST EXCEPTION LOG.
- Controls overall testing process and change record authorization for this OTP.
- Responsible for conducting the test, collecting data, and ensuring compliance with all OTP requirements.
- Ensures required changes to supporting operating procedures (OPs) are initiated upon completion of OTP testing.

5.2 Test Engineer:

- Provides technical support during testing.
- Provides programming support during testing.
- Participates in pre-test meetings, as necessary.
- Conducts a pre-test system walkdown, as necessary.
- Verifies that mechanical, electrical, and control systems are functioning correctly and can support testing.

5.3 Maintenance Craft:

- Provide assistance during OTP activities.

5.4 Operations Personnel:

- Perform manipulations on Systems and Test Equipment.
- Start, stop and operate equipment related to OTP.
- Control and monitor parameters from Control Panels and Control Room.
- Inform Duty Operations Supervisor of conditions affecting plant stability or safety.

6.0 CHANGE CONTROL

- 6.1 OTP and supporting Operating Procedure (OP) administrative or editorial changes required during testing may be accommodated as redline exceptions in the test report, if these changes do not affect operating facility function, performance or safety that could compromise or influence data results. Changes to acceptance criteria, requirement changes, or changes to Cautions, Warnings, or any other safety items, and environmental instructions in the OTP or OP shall be approved by the signatories initially approving the OTP.

7.0 REFERENCES

- 7.1 The following documents were used in the preparation of, or are referenced in this procedure:

HSRCM-1, Hanford Site Radiological Control Manual
HNF-CM-5-34, Solid Waste Disposal Operations Administration
HNF-CM-5-36, SWD Internal Requirements
HNF-IP-0263-WRP1, Building Emergency Plan
HNF-CM-5-36, Chapter 1.10, Safety Manual
HNF-CM-5-36, Chapter 1.11, Industrial Hygiene Manual
HNF-CM-5-36, Chapter 3-5, Section 12.7
HNF-CM-5-36, Chapter 7.5, Environmental Compliance Manual
HNF-CM-5-34, Section 3.1.4, Lock-out, Tag-out

- 7.2 The following operating procedures (OPs) will be used to support test activities and objectives and will be validated during this OTP:

Procedure #	Procedure Title
WRP1-OP-0713,	LLW Entry Glovebox Operation
WRP1-OP-0714,	LLW Sorting Glovebox Operation
WRP1-OP-0715,	LLW Supercompactor Operation
WRP1-OP-0716,	LLW Exit Glovebox Operation
WRP1-OP-0719,	LLW Gloveboxes Manual Operation
WRP1-OP-0702,	Restart LLW Glovebox Operation
WRP1-OP-0706,	Packet NDE Operation

NOTE

WRP1-OP-0701, WRP1-OP-0703, WRP1-OP-0704, WRP1-OP-0705 and WRP1-OP-0710 were validated in previous OTPs. They should still be redlined as necessary during this OTP to reflect any discrepancies specific to the LLW Gloveboxes.

WRP1-OP-0701, Glovebox Housekeeping
WRP1-OP-0703, Glovebox Lift Table Operation
WRP1-OP-0704, Glovebox Manipulator Operation
WRP1-OP-0705, Bagless Transfer Operation
WRP1-OP-0710, Glovebox Waste Sampling

*DD 2/12/98
per [unclear] JRP
LABELO*

All copies of the OPs used for testing shall be hand marked with the OTP number at the top of the first page and attached to the completed OTP test package.

Use of operating procedures to support the OTP will provide validation of the procedures and minimize the amount of test paperwork generated.

- 7.3 The following procedures will be used for alarm response during OTP activities, as required:

WRP1-AR-0700, Process Area Alarm Response
WRP1-AR-1106, Process Area (Zone II) HVAC Alarm Response
WRP1-AR-1107, Glovebox HVAC Alarm Response

- 7.4 The following administrative procedures control work performed in this OTP:

HSRCM-1, Hanford Site Radiological Control Manual
HNH-CM-5-34, Section 1.9, Quality Assurance Program Plan
HNH-CM-5-34, Section 3.1.4, Lock-out, Tag-out
HNH-CM-5-36, Chapter 1.10, Safety Manual
HNH-CM-5-36, Chapter 1.11, Industrial Hygiene Manual
HNH-CM-5-36, Chapter 4-2, Quality Assurance Manual
HNH-CM-5-36, Chapter 7-5, Environmental Compliance Manual
HNH-IP-0263-WRP1, Building Emergency Plan

8.0 SAFETY

- 8.1 WARNING - In addition to construction and/or chemical, electrical, and oil contamination hazards, operators should be aware of the possibility of coming into contact with biological hazards.
- 8.2 The gloveboxes are equipped with dry chemical fire suppression systems which will discharge into the glovebox if the interior temperature at the top of the gloveboxes rises to ~190 °F.
- 8.3 Use care to minimize injury. Possible safety hazards include:
- Tripping / Slipping
 - Injuries to the hands/head
 - Automatic Guided Vehicle traffic.
- 8.4 RADIATION - CONTAMINATION CONTROL - WRAP 1 is a new facility, no radiation contamination concerns are expected during OTP activities.

9.0 QUALITY ASSURANCE

- 9.1 No Quality Assurance witness, hold points or verifications are required in this OTP.

10.0 RECORDS

- 10.1 This LLW Glovebox OTP complete with attachments shall be filed as a permanent test record.

11.0 PREREQUISITES

11.1 VERIFY barcode labels attached to glovebox:

<u>LOCATION</u>	<u>COMMAND LABELS</u>
LLW_ENTRY	END, CNCL PREV READ, CNCL OPERATION, YES, NO
LLW_RWMPRT	END, CNCL PREV READ, CNCL OPERATION, YES, NO
LLW_EXIT	END, CNCL PREV READ, CNCL OPERATION, YES, NO
LLW_PP	END, CNCL PREV READ, CNCL OPERATION, YES, NO
LLW_SORT	END, CNCL PREV READ, CNCL OPERATION, YES, NO
LLW_STORE1	END, CNCL PREV READ, CNCL OPERATION, YES, NO
LLW_STORE2	END, CNCL PREV READ, CNCL OPERATION, YES, NO

11.2 VERIFY LLW process glovebox Acceptance Test Procedure is complete and all deficiencies or exceptions arising from the ATP have been resolved and closed out, or will not affect testing.

11.3 VERIFY all open (ATP/FTP) items will not effect OTP performance:

- Quality Assurance Nonconformance Reports (NCRs)
- Construction Punch Lists
- Outstanding Engineering Change Notices (ECNs)
- Startup-originated Design Change Requests (CRs)
- Test Deficiency Reports
- Master System Punch List items

11.4 VERIFY materials are available as follows:

85 gallon Entry/Exit overpack drum with lid & barcode label OTP-LLW-OD-01.
85 gallon Entry/Exit overpack drum with lid & barcode label OTP-LLW-OD-02.
85 gallon Entry/Exit overpack drum with lid & barcode label OTP-LLW-OD-03.
85 gallon Entry/Exit overpack drum with lid & barcode label OTP-LLW-OD-04.
85 gallon Entry/Exit overpack drum with lid & barcode label OTP-LLW-OD-05.
55 gal waste drum with barcode label OTP-LLW-WP-01 attached, lid, and filled with mixed waste for sampling and packed inside OTP-LLW-OD-01.
55 gal waste drum with barcode label OTP-LLW-WP-02 attached, lid, and the following non-compliant packets inside, all packed inside OTP-LLW-OD-02: OTP6-97-000001: Aerosol can of saline solution. OTP6-97-000002: Aerosol can of saline solution in bubble wrap and tape. OTP6-97-000003: Unlabeled aerosol can wrapped with cloth and tape.
55 gal waste drum with barcode label OTP-LLW-WP-03 attached, lid, and mixed compliant waste inside all packed inside OTP-LLW-OD-03.
55 gal waste drum with barcode label OTP-LLW-WP-04 attached, lid, and the following non-compliant packets inside all packed inside OTP-LLW-OD-04: OTP6-97-000004: Lead brick wrapped-with-two-plastic bags and tape. OTP6-97-000005: Bottle of unknown solvent and bottle of oil taped together and wrapped with cloth and tape. OTP6-97-000006: Bottle of acid.
Empty 55 gal waste drum with barcode label OTP-LLW-WP-05 attached, and lid, packed inside OTP-LLW-OD-05.
55 gallon D&S transfer drum with barcode label OTP-LLWR-TD-01 attached, lid, and transfer stand inside:
55 gallon D&S transfer drum with barcode label OTP-LLWR-TD-02 attached, lid, and transfer stand inside:
2 Empty Sample Bottles (250ml)
Sample Transport Container with barcode label OTP6-97-300001
One Transfer Pig with barcode label OTP6-97-400001
VOID SPACE FILLER as required

11.5 PREREQUISITES 11.1 through 11.4 complete:

TE Initials/Date: AD, 8/8/97

NOTE

Steps 11.6 through 11.15 may be performed in any order.

- 11.6 PERFORM a pretest briefing for all personnel involved in the OTP.
- 11.7 VERIFY two way portable radio communication (when necessary) between the testing and equipment locations.
- 11.8 VERIFY the official OTP document and all photocopies that will be used during testing are the latest approved revision.
- 11.9 DETERMINE appropriate interface support (personnel/equipment) from other departments and organizations and that support is available.
- 11.10 VERIFY personnel performing this procedure are qualified in accordance with HNF-CM-5-34, Section 1.8, Training Plan, HNF-IP-1242, WRAP 1 RGD Radiation Protection Program and on-the-job training.
- 11.11 VERIFY all personnel to be involved with this OTP have completed Attachment 3, SIGNATURE RECORD.
- 11.12 VERIFY all required LLW process glovebox components are installed and operational.
- 11.13 VERIFY all permanently installed and portable instrumentation listed in the applicable operating procedures and required for testing, is within it's current calibration cycle.
- 11.14 VERIFY the DMS, PCS and OIUs for the LLW process glovebox are available and operational.
- 11.15 VERIFY process area HVAC and glovebox alarms are activated.
- 11.16 PREREQUISITES 11.6 through 11.15 complete:

TD Initials/Date: DD, 8/8/97

12.0 PROCEDURE

- 12.1 PERFORM Manual Operation test of the LLW Glovebox per Attachment 4, TEST PLAN, LLW GLOVEBOX MANUAL OPERATION.
- 12.2 PERFORM Automatic Operation test of the LLW Glovebox for Test Case 1 per Attachment 5, TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1.
- 12.3 PERFORM Automatic Operation test of the LLW Glovebox for Test Case 2 per Attachment 6, TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2.
- 12.4 PERFORM Automatic Operation test of the LLW Glovebox for Test Case 3 per Attachment 7, TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 3.
- 12.5 PERFORM Automatic Operation test of the LLW Glovebox for Test Case 4 per Attachment 8, TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4.
- 12.6 PERFORM Restart test of the LLW Glovebox per Attachment 9, TEST PLAN, LLW GLOVEBOX RESTART.

13.0 ACCEPTANCE CRITERIA

13.1 Test results of each section will be considered acceptable if the following conditions are met:

13.1.1 The procedure test section was performed as written with expected results OR:

13.1.1.1 For editorial changes:

- The procedure was redlined to reflect field conditions and the section in question performed as written with expected results.
- Redline and changes shall be in accordance with Section 6, Change Control.

13.1.1.2 For changes other than editorial:

- Exceptions are documented on Attachment 2, Test Exception Report, and the Disposition Section is approved by the Test Engineer.
- Each Test Exception Report is logged in Attachment 1, Test Exception Log.
- The Test Director shall review Attachment 1, Test Exception Log, and ensure timely completion of all Disposition Actions and Retest Requirements.

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ATTACHMENT 1 - TEST EXCEPTION LOG FORM

Not USED per Drug Donor by telemon Job 4/12/95

TEST EXCEPTION LOG (Page of

[illegible]

ATTACHMENT 2 - TEST EXCEPTION REPORT

TEST PROCEDURE NO. & SECTION:	TEST NAME:	EXCEPTION TRACKING NUMBER:
DESCRIPTION OF PROBLEM:		
ORIGINATOR:	ORG:	IMPACT ON TESTING:
		☐ HOLD FOR RESOLUTION ☐ CONTINUE
DATE:	TEST DIRECTOR:	DATE:
DISPOSITION:		
DISPOSITION APPROVED BY: _____ TEST ENGINEER		
DISPOSITION AND RETEST REQUIREMENTS COMPLETED BY:	DISPOSITION ACTIONS COMPLETE VERIFIED BY:	
DATE:	DATE:	
OAE CONCURRENCE WITH DISPOSITION (if required):	RETEST COMPLETE VERIFIED BY:	
DATE:	DATE:	
TEST EXCEPTION CLOSED:		
TEST ENGINEER: _____ DATE: _____		
TEST DIRECTOR: _____ DATE: _____		

ATTACHMENT 3 - SIGNATURE RECORD

LOW LEVEL WASTE/RADWASTE MANAGEMENT GLOVEBOX OPERATIONAL TEST

SIGNATURE RECORD: By signing below, I attest that I am aware of and understand my duties and responsibilities as described in the OTP and as assigned by the TD or TE.

[illegible]

ATTACHMENT 4 - TEST PLAN, LLW GLOVEBOX MANUAL OPERATION

1.0 GENERAL DESCRIPTION

- 1.1 This test plan will verify that each manual function of the LLW glovebox components may be individually operated. These operations will be tested using procedures WRP1-OP-0719, Low Level Waste Glovebox Line Manual Operation and WRP1-OP-0715, LLW Supercompactor Operation, thereby also performing the required procedure validation for sections performed.

2.0 SAFETY

- 2.1 Reference OTP Section 8, SAFETY.

3.0 TOOLS, EQUIPMENT AND SUPPLIES

- Drum handling (manual) equipment or Pallet fork truck
- Spill Kit/Decontamination Equipment (oils/chemicals)
- Tape and rags

4.0 TEST PREREQUISITES

- 4.1 VERIFY OTP Section 11.0, PREREQUISITES are complete.
- 4.2 VERIFY PCS and DMS are ready to support testing.
- 4.3 TEST PREREQUISITES are complete and acceptable.

TD Initials/Date:

shl 5/1/97

ATTACHMENT 4 - TEST PLAN, LLW GLOVEBOX MANUAL OPERATION

5.0 PROCEDURE

5.1 REFERENCE procedure WRP1-OP-0719, LOW LEVEL WASTE GLOVEBOX LINE
MANUAL OPERATION:

NOTE

The following sections of this procedure will be tested at a later date:

1. VII.E "MATE SINGLE DRUM TO ENTRY PORT (107-DO-07-101)"
2. VII.G "OPEN ENTRY PORT (107-DO-07-101) (SINGLE DRUM)"
3. VII.I "CLOSE ENTRY PORT (107-DO-07-101) (SINGLE DRUM)"

NOTE

Sections VII.A thru VII.L of WRP1-OP-0719 test the manual functions of the LLW Entry Glovebox (107-GB-07-101).

- 5.1.1 PERFORM Section VII.A, "INITIALIZE ENTRY GLOVEBOX", of operating procedure as follows:

5.1.1.1 REDLINE procedure as needed during performance.

5.1.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: JD / 8/5/97

- 5.1.2 PERFORM Section VII.B, "ACCESS ENTRY GLOVEBOX MAINTENANCE MENUS", of operating procedure as follows:

5.1.2.1 REDLINE procedure as needed during performance.

5.1.2.2 VERIFY results of performance are acceptable.

TD Initials/Date: JD / 8/5/97

ATTACHMENT 4 - TEST PLAN, LLW GLOVEBOX MANUAL OPERATION

- 5.1.3 PERFORM Section VII.C, "OPERATE ENTRY GLOVEBOX HOIST (107-CR-07-101A)", of operating procedure as follows:

5.1.3.1 REDLINE procedure as needed during performance.

5.1.3.2 VERIFY results of performance are acceptable.

TD Initials/Date: RD / 5/5/97

- 5.1.4 PERFORM Section VII.D, "MATE OVERPACK DRUM TO ENTRY PORT (107-DO-07-101)", of operating procedure as follows:

5.1.4.1 REDLINE procedure as needed during performance.

5.1.4.2 VERIFY results of performance are acceptable.

TD Initials/Date: RD / 5/5/97

- 5.1.5 PERFORM Section VII.F, "OPEN ENTRY PORT (107-DO-07-101) (OVERPACK DRUM)", of operating procedure as follows:

5.1.5.1 REDLINE procedure as needed during performance.

5.1.5.2 VERIFY results of performance are acceptable.

TD Initials/Date: RD / 5/5/97

- 5.1.6 PERFORM Section VII.H, "CLOSE ENTRY PORT (107-DO-07-101) (OVERPACK DRUM)", of operating procedure as follows:

5.1.6.1 REDLINE procedure as needed during performance.

5.1.6.2 VERIFY results of performance are acceptable.

TD Initials/Date: RD / 5/5/97

ATTACHMENT 4 - TEST PLAN, LLW GLOVEBOX MANUAL OPERATION

- 5.1.7 PERFORM Section VII.J, "REMOVE OVERPACK DRUM FROM ENTRY PORT (107-DO-07-101)", of operating procedure as follows:

5.1.7.1 REDLINE procedure as needed during performance.

5.1.7.2 VERIFY results of performance are acceptable.

TD Initials/Date: TD 1/8/97

- 5.1.8 PERFORM Section VII.K, "OPEN TRANSFER PORT (107-DO-07-102A)", of operating procedure as follows:

5.1.8.1 REDLINE procedure as needed during performance.

5.1.8.2 VERIFY results of performance are acceptable.

TD Initials/Date: TD 1/8/97

- 5.1.9 PERFORM Section VII.L, "CLOSE TRANSFER PORT (107-GB-07-102)", of operating procedure as follows:

5.1.9.1 REDLINE procedure as needed during performance.

5.1.9.2 VERIFY results of performance are acceptable.

TD Initials/Date: TD 1/8/97

NOTE

Sections VIII.A thru VIII.O of WRP1-OP-0719 test the manual functions of the LLW Sorting Glovebox (107-GB-07-102).

- 5.1.10 PERFORM Section VIII.A, "INITIALIZE SORTING GLOVEBOX" of operating procedure as follows:

5.1.10.1 REDLINE procedure as needed during performance.

5.1.10.2 VERIFY results of performance are acceptable.

TD Initials/Date: TD 1/8/97

ATTACHMENT 4 - TEST PLAN, LLW GLOVEBOX MANUAL OPERATION

5.1.11 PERFORM Section VIII.B, "ACCESS SORTING GLOVEBOX MAINTENANCE MENUS", of operating procedure as follows:

5.1.11.1 REDLINE procedure as needed during performance.

5.1.11.2 VERIFY results of performance are acceptable.

TD Initials/Date: DR 15/11/97

5.1.12 PERFORM Section VIII.C, "OPERATE SORTING GLOVEBOX HOIST (107-CR-07-101C)", of operating procedure as follows:

5.1.12.1 REDLINE procedure as needed during performance.

5.1.12.2 VERIFY results of performance are acceptable.

TD Initials/Date: DR 15/11/97

5.1.13 PERFORM Section VIII.D, "OPEN/CLOSE BAGLESS TRANSFER PORT (107-DO-07-105)", of operating procedure as follows:

5.1.13.1 REDLINE procedure as needed during performance.

5.1.13.2 VERIFY results of performance are acceptable.

TD Initials/Date: DR 15/11/97

5.1.14 PERFORM Section VIII.E, "MOVE DRUM TRANSFER CAR (107-TC-07-101)", of operating procedure as follows:

5.1.14.1 REDLINE procedure as needed during performance.

5.1.14.2 VERIFY results of performance are acceptable.

TD Initials/Date: DR 15/11/97

*DR 15/11/97
Hoist placed at
midpoint, coming position
hoist at load
with manipulator
at park position*

ATTACHMENT 4 - TEST PLAN, LLW GLOVEBOX MANUAL OPERATION

5.1.15 PERFORM Section VIII.F, "MOVE OR ROTATE DRUM LID/DELID
FIXTURE (107-RT-07-101) of operating procedure as follows:

VIII.F - LOWER TIPPER *DL 8/11/97*
5.1.15.1 REDLINE procedure as needed during performance.

5.1.15.2 VERIFY results of performance are acceptable.

TD Initials/Date: *DL 8/11/97*

5.1.16 PERFORM Section VIII.G, "OPERATE LID/DELID SAW", of operating
procedure as follows:

5.1.16.1 REDLINE procedure as needed during performance.

5.1.16.2 VERIFY results of performance are acceptable.

TD Initials/Date: *DL 8/11/97*

5.1.17 PERFORM Section VIII.H, "DELID WASTE DRUM", of operating
procedure as follows:

5.1.17.1 REDLINE procedure as needed during performance.

5.1.17.2 VERIFY results of performance are acceptable.

TD Initials/Date: *DL 8/11/97*

5.1.18 PERFORM Section VIII.I, "RELID WASTE DRUM", of operating
procedure as follows:

5.1.18.1 REDLINE procedure as needed during performance.

5.1.18.2 VERIFY results of performance are acceptable.

TD Initials/Date: *DL 8/11/97*

DL 8/11/97
ETR ✓
"DRUM AT TIPPER POS"
OR OIN 103B DOES NOT
RESPOND TO PRELID
POSITION ONLY
ENTRY POSITION
IS CORRECT

DL 8/11/97
ETR ✓
NO WAY TO
CHECK W/7
RINGS

ATTACHMENT 4 - TEST PLAN, LLW GLOVEBOX MANUAL OPERATION

5.1.19 PERFORM Section VIII.J, "C-CLIP AND CRIMP LID", of operating procedure as follows:

5.1.19.1 REDLINE procedure as needed during performance.

5.1.19.2 VERIFY results of performance are acceptable.

TD Initials/Date: DD 1 5/11/97

5.1.20 PERFORM Section VIII.K, "OPEN/CLOSE DRUM GRAB" of operating procedure as follows:

5.1.20.1 REDLINE procedure as needed during performance.

5.1.20.2 VERIFY results of performance are acceptable.

TD Initials/Date: DD 1 5/11/97

5.1.21 PERFORM Section VIII.L, "RAISE/LOWER/PARK DRUM TIPPER (107-DH-07-103)", of operating procedure as follows:

5.1.21.1 REDLINE procedure as needed during performance.

5.1.21.2 VERIFY results of performance are acceptable.

TD Initials/Date: DD 1 5/11/97

5.1.22 PERFORM Section VIII.M, "ROTATE DRUM TIPPER (107-DH-07-103)", of operating procedure as follows:

5.1.22.1 REDLINE procedure as needed during performance.

5.1.22.2 VERIFY results of performance are acceptable.

TD Initials/Date: DD 1 5/11/97

*DD
shuts
ETR ✓
VIEW DISPLAYS
can at panel position
should be C-clip

DD
shuts ✓
ETR ✓
Pressure Switch
logics*

ATTACHMENT 4 : TEST PLAN, LLW GLOVEBOX MANUAL OPERATION

5.1.23 PERFORM Section VIII.N, "EXTEND/RETRACT SORTING TABLE (107-ST-07-101)", of operating procedure as follows:

5.1.23.1 REDLINE procedure as needed during performance.

5.1.23.2 VERIFY results of performance are acceptable.

TD Initials/Date: JD 1/8/11/97

5.1.24 PERFORM Section VIII.O, "RAISE/LOWER SORTING TABLE (107-ST-07-101)", of operating procedure as follows:

5.1.24.1 REDLINE procedure as needed during performance.

5.1.24.2 VERIFY results of performance are acceptable.

TD Initials/Date: JD 1/8/11/97

NOTE

Sections IX.A thru IX.I of WRP1-OP-0719 test the manual functions of the LLW Exit Glovebox (107-GB-07-105).

5.1.25 PERFORM Section IX.A, "INITIALIZE EXIT GLOVEBOX" of operating procedure as follows:

5.1.25.1 REDLINE procedure as needed during performance.

5.1.25.2 VERIFY results of performance are acceptable.

TD Initials/Date: JD 1/8/11/97

5.1.26 PERFORM Section IX.B, "ACCESS EXIT GLOVEBOX MAINTENANCE MENUS", of operating procedure as follows:

5.1.26.1 REDLINE procedure as needed during performance.

5.1.26.2 VERIFY results of performance are acceptable.

TD Initials/Date: JD 1/8/11/97

JD 8/11/97
Review this section

JD 8/11/97
ETR 16
"SYSTEM INIT" WITH HOIST NOT AT COMPLETE REC
ETR
COULD NOT POSITION HOIST AT COMPLETE RECEPT BUTTONS

ATTACHMENT 4 - TEST PLAN, LLW GLOVEBOX MANUAL OPERATION

5.1.27 PERFORM Section IX.C, "OPERATE SORTING GLOVEBOX HOIST (107-CR-07-101D)", of operating procedure as follows:

5.1.27.1 REDLINE procedure as needed during performance.

5.1.27.2 VERIFY results of performance are acceptable.

TD Initials/Date: TD 18/11/97

5.1.28 PERFORM Section IX.D, "MATE DRUM TO EXIT PORT (107-DO-07-106)", of operating procedure as follows:

5.1.28.1 REDLINE procedure as needed during performance.

5.1.28.2 VERIFY results of performance are acceptable.

TD Initials/Date: TD 18/11/97

5.1.29 PERFORM Section IX.E, "OPEN EXIT PORT (107-DO-07-106)", of operating procedure as follows:

5.1.29.1 REDLINE procedure as needed during performance.

5.1.29.2 VERIFY results of performance are acceptable.

TD Initials/Date: TD 18/11/97

5.1.30 PERFORM Section IX.F, "OPERATE TRANSFER CAR CONVEYOR of operating procedure as follows:

5.1.30.1 REDLINE procedure as needed during performance.

5.1.30.2 VERIFY results of performance are acceptable.

TD Initials/Date: TD 18/11/97

20
18/11/97
ETR: J 6
Conveyor motor would
not engage or start

ATTACHMENT 4 - TEST PLAN, LLW GLOVEBOX MANUAL OPERATION

5.1.31 PERFORM Section IX.G, "RELID OVERPACK DRUM & CLOSE EXIT PORT (107-DO-07-106)", of operating procedure as follows:

5.1.31.1 REDLINE procedure as needed during performance.

5.1.31.2 VERIFY results of performance are acceptable.

TD Initials/Date: DD 1/8/10/97

5.1.32 PERFORM Section IX.H, "REMOVE OVERPACK DRUM FROM EXIT PORT (107-DO-07-106)", of operating procedure as follows:

5.1.32.1 REDLINE procedure as needed during performance.

5.1.32.2 VERIFY results of performance are acceptable.

TD Initials/Date: DD 1/8/10/97

5.1.33 PERFORM Section IX.I, "MATE DRUM TO EXIT PORT (107-DO-07-106)", of operating procedure as follows:

5.1.33.1 REDLINE procedure as needed during performance.

5.1.33.2 VERIFY results of performance are acceptable.

TD Initials/Date: 1

5.2 REFERENCE procedure WRP1-OP-0715, LLW SUPERCOMPACTOR OPERATION:

5.2.1 PERFORM Section VII.E, "MANUAL OPERATION", of operating procedure as follows:

5.2.1.1 REDLINE procedure as needed during performance.

5.2.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: DD 1/8/11/97

↑ TR ✓ 7
"Door Lower"
D/P NOT CLANK
on lower door
DD
2/10/97

DD
2/10/97
Duplicate
Action

DD
2/10/97
Auto
operation
checked

1.0 GENERAL DESCRIPTION

- 1.1.1 Test case one will sample and overpack LLW Test Drum 1 without compacting. These operations will be performed using procedures WRP1-OP-0710 "Glovebox Waste Sampling," WRP1-OP-0713 "LLW Entry Glovebox Operation," WRP1-OP-0714 "Low Level Waste (LLW) Sorting Glovebox Operation," WRP1-OP-0715 "LLW Supercompactor Operation" and WRP1-OP-0716 "LLW Exit Glovebox Operation," thereby also performing the required procedure validation for sections performed. The sequence of events is as follows:
- 1.1.1.1 STC OTP6-97-300001 is connected to the STC port.
 - 1.1.1.2 Transfer drum OTP-LLWR-TD-01 is connected to the LLW glovebox RWM bagless transfer port and the port is opened.
 - 1.1.1.3 Transfer stand is moved to the sorting table.
 - 1.1.1.4 85 gallon shipping overpack OTP-LLW-OD-01, with 55 gallon LLW drum OTP-LLW-WP-01 inside, is connected to the LLW glovebox entry port and drum OTP-LLW-WP-01 is lifted into the LLW Entry glovebox.
 - 1.1.1.5 Drum OTP-LLW-WP-01 is checked for external contamination.
 - 1.1.1.6 85 gallon drum OTP-LLW-OD-01 is closed and removed from the LLW Entry port and from lift table LT-09-202A.
 - 1.1.1.7 Empty 85 gallon drum OTP-LLW-OD-01 (from entry port) is placed on lift table LT-09-202C (LLW Exit).
 - 1.1.1.8 Drum OTP-LLW-OD-01 is connected to the LLW glovebox exit port and the port is opened.
 - 1.1.1.9 Drum OTP-LLW-WP-01 is lifted by the LLW entry glovebox hoist, lowered through transfer port, and placed on transfer car.
 - 1.1.1.10 Drum OTP-LLW-WP-01 is moved to the drum tipper, the lid is removed, and the contents are dumped on the sorting table.

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

- 1.1.11 A sample analysis request is prepared for drum OTP-LLW-WP-01. Sample 97-00001 is requested with analyses as directed by Sampling Representative. One bottle is required for each analysis.
- 1.1.12 Sample bottle barcode labels 97-00001-01L and 97-00001-02L are printed in the sample management office and the labels are placed on empty sample bottles.
- 1.1.13 Empty sample bottles 97-00001-01L and 97-00001-02L are loaded into the LLW glovebox through the Consumable Materials port.
- 1.1.14 A soil sample is collected in sample bottles 97-00001-01L and 97-00001-02L.
- 1.1.15 Sample bottles 97-00001-01L and 97-00001-02L are placed in STC OTP6-97-300001.
- 1.1.16 STC OTP6-97-300001 is removed from the LLW STC port and placed in transfer pig OTP6-97-400001.
- 1.1.17 The waste on the sorting table is loaded back into drum OTP-LLW-WP-01, the drum is placed on the transfer car, the drum is relidded, and the transfer car with the drum is moved to the compactor.
- 1.1.18 Drum OTP-LLW-WP-01 is moved to the exit glovebox without being compacted. "Puck" bar code label OTP001 is placed on the drum and the barcode is read. The drum is then lifted by the hoist and the drum is weighed on the hoist scale. The ID and weight are sent to the DMS.
- 1.1.19 The waste drum is loaded into the overpack at the exit port.
- 1.1.20 Overpack drum OTP-LLW-OD-01 is (1) closed, (2) removed from the LLW glovebox exit port, (3) surveyed, and (4) removed from lift table LT-09-202C.

2.0 SAFETY

2.1 Reference OTP Section 8, SAFETY.

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

3.0 TOOLS, EQUIPMENT AND SUPPLIES

- Drum handling (manual) equipment or Pallet fork truck
- Spill Kit/Decontamination Equipment (oils/chemicals)
- Tape and rags
- Other equipment, material or protective clothing (as required)

4.0 TEST PREREQUISITES

4.1 VERIFY OTP Section 11.0, PREREQUISITES are complete.

4.2 SET initial conditions as follows:

- ✓ 4.2.1 55 gallon LLW drum OTP-LLW-WP-01, in shipping overpack OTP-LLW-OD-01, is on lift table LT-09-202A.
- ✓ 4.2.2 The PCS man_op program has sent an AGVPCS AGVL message for the AGV located at AGVLLWENTR (LT-09-202A) with drum OTP-LLW-OD-01 (sets LCU conditions have been set for drum OTP-LLW-OD-01 on lift table LT-09-202A).
- ✓ 4.2.3 Empty transfer drum OTP-LLWR-TD-01 is on lift table LT-09-203A.
- ✓ 4.2.4 The PCS man_op program has sent an AGVPCS AGVL message for the AGV located at AGVLLWRWX (LT-09-203A) with drum OTP-LLWR-TD-01 (sets LCU conditions for drum OTP-LLWR-TD-01 on lift table LT-09-203A).
- ✓ 4.2.5 Empty sample transport container (STC) OTP6-97-300001 is at the LLW glovebox ready to connect to the STC port.
- 4.2.6 Transfer pig OTP6-97-400001 is located near the LLW STC port.
- ✓ 4.2.7 Sequentially numbered puck barcode labels are available in the exit glovebox.
- ✓ 4.2.8 Required sampling supplies are available in the glovebox.
- ✓ 4.2.9 Two empty unlabeled 250 ml sample bottles are in the sample management office.

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

- ✓ 4.2.10 A user with general operator (GENOP) privileges is logged on at DMS LLW Terminal (107-TE-12-104)
- ✓ 4.2.11 A user with chemist privileges is logged on at DMS Sample Management Office Terminal (109-TE-12-107).
- ✓ 4.2.12 The sample-label barcode printer in the sample management office is loaded with blank labels and ready to print.
- ✓ 4.2.13 Test scripts have been run on the DMS server to:
 - ✓ 4.2.13.1 Initialize the DMS database.
 - ✓ 4.2.13.2 Load initial data for PINs:

PINs OTP-LLW-OD-01, OTP-LLW-OD-02,
OTP-LLW-OD-03, OTP-LLW-OD-04,
OTP-LLW-WP-01, OTP-LLW-WP-02,
OTP-LLW-WP-03, OTP-LLW-WP-04,
OTP-LLWR-TD-01, OTP-LLWR-TD-02,
OTP6-97-300001, and OTP6-97-400001.
 - ✓ 4.2.13.3 Reset screen DMSS0504 sequential sample number to zero. (The first sample number assigned by screen DMSS0504 will be OTP00001.)
 - ✓ 4.2.13.4 Print report of DMS database.

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

4.2.14 VERIFY conditions:

- ✓ 4.2.14.1 Port 107-DO-07-101, CLOSED and LOCKED.
- ✓ 4.2.14.2 Port 107-DO-07-105, CLOSED and LOCKED.
- ✓ 4.2.14.3 Lift Table 107-LT-09-202A at AGV height.
- ✓ 4.2.14.4 Lift Table 107-LT-09-202A, MAINTENANCE/OFF/NORMAL (M/O/N) switch in NORMAL.
- ✓ 4.2.14.5 Lift Table 107-LT-09-203A at AGV height.
- ✓ 4.2.14.6 Lift Table 107-LT-09-203A, MAINTENANCE/OFF/NORMAL (M/O/N) switch in NORMAL.
- ✓ 4.2.14.7 Manipulator 107-EM-07-101 PARKED.

4.3 UPDATE PCS Tracking Table as follows:

- ✓ 4.3.1 Drum OTP-LLW-WP-01 in shipping overpack OTP-LLW-OD-01 at LT-09-202A.
- ✓ 4.3.2 Drum OTP-LLWR-TD-01 at LT-09-203A.

PCS TRACKING TABLE FOR LLW LIFT TABLES		
LIFT TABLE	Registers	
	PIN	Drum Present (=1)
LT-09-202A	N32: 35-41 N31	N32: 46 bit 12 N31
LT-09-203A	N32: 47-53 N31	N32: 58 bit 12 N31

TD Initials

4.4 TEST PREREQUISITES are complete and acceptable.

TD Initials/Date: TD / 8/12/97

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

5.0 PROCEDURE

5.1 REFERENCE procedure WRP1-OP-0710, GLOVEBOX WASTE SAMPLING:

5.1.1 PERFORM Section VII.D.1 "ATTACH STC TO GLOVEBOX", of operating procedure as required to attach empty STC-1 to glovebox:

5.1.1.1 REDLINE procedure as needed during performance.

5.1.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: DD 18/12/97

5.2 REFERENCE procedure WRP1-OP-0714, LOW LEVEL WASTE (LLW) SORTING GLOVEBOX OPERATION:

5.2.1 PERFORM Section VII.A, "INITIALIZE SYSTEM", of operating procedure as follows:

5.2.1.1 REDLINE procedure as needed during performance.

5.2.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: DD 18/12/97

5.2.2 PERFORM Section VII.N, "MATE DRUM TO RWM TRANSFER PORT (107-DO-07-105)", of operating procedure as follows:

5.2.2.1 REDLINE procedure as needed during performance.

5.2.2.2 VERIFY drum OTP-LLWR-TD-01 connected to port 107-DO-07-105 and port OPEN.

5.2.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: DD 18/12/97

DD 4/1/97
✓
CR-101C float
cannot be set
with manipulator
at floor pos 1.

DD 4/1/97
✓
Port had to be
opened in manual
not in auto.
Cleaned in Petri

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

5.2.3 PERFORM Section VII.O, "REMOVE TRANSFER STAND FROM RWM TRANSFER DRUM", of operating procedure as follows:

5.2.3.1 REDLINE procedure as needed during performance.

5.2.3.2 VERIFY transfer stand at glovebox sorting table.

5.2.3.3 VERIFY results of performance are acceptable.

TD Initials/Date: Q 18/12/97

5.3 REFERENCE procedure WRP1-OP-0713, LLW ENTRY GLOVEBOX OPERATION:

5.3.1 PERFORM Section VII.A, "INITIALIZE SYSTEM", of operating procedure as follows:

5.3.1.1 REDLINE procedure as needed during performance.

5.3.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: Q 18/12/97
8/12/97

5.3.2 PERFORM Section VII.B, "DRUM ENTRY TO LLW GLOVEBOX", of operating procedure as follows:

5.3.2.1 REDLINE procedure as needed during performance.

5.3.2.2 VERIFY overpack drum OTP-LLW-OD-01 OPEN and inner drum OTP-LLW-WP-01 on hoist at "SWAB" position.

5.3.2.3 VERIFY DMSS0311 indicates overpack drum OTP-LLW-OD-01 and inner drum OTP-LLW-WP-01 at glovebox with message "Sorting Required".

5.3.2.4 VERIFY results of performance are acceptable.

TD Initials/Date: Q 18/12/97
8/12/97

Q 8/12/97
ETR ✓ 9
Had to raise
LT in manual
to continue
auto sequence.

ETR ✓ 96
Person of drum
detected inner drum
rotation to
overpack
Chamber will
wait for
8/12/97

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

- 5.3.3 PERFORM Section VII.C, "CLOSE ENTRY PORT", of operating procedure as follows:
- 5.3.3.1 REDLINE procedure as needed during performance.
- 5.3.3.2 VERIFY ENTRY port is CLOSED, overpack drum OTP-LLW-OD-01 is lowered from port and checked for contamination.
- 5.3.3.3 SELECT "CONTAMIN. DRUM READY FOR PICKUP" when prompted by OIU.
- 5.3.3.4 VERIFY overpack drum OTP-LLW-OD-01 is removed from Lift Table LT-09-202A.
- 5.3.3.5 VERIFY results of performance are acceptable.

TD Initials/Date: DD / 8/1/97

- 5.3.4 MOVE overpack drum OTP-LLW-OD-01 (manually) to AGV end of Lift Table LT-09-202C at LLW Exit Port.

TD Initials/Date: DD / 8/1/97

- 5.3.5 Run PCS man op program to send AGVPCS AGVL message for AGV at AGVLLWEXIT (LT-09-202C) with drum OTP-LLW-OD-01 (Sets LCU conditions for drum OTP-LLW-OD-01 on lift table LT-09-202C.)

TD Initials/Date: DD / 8/1/97

5.4 REFERENCE procedure WRP1-OP-0716, LLW EXIT GLOVEBOX OPERATION:

- 5.4.1 PERFORM Section VII.A, "INITIALIZE SYSTEM", of operating procedure as follows:

5.4.1.1 REDLINE procedure as needed during performance.

5.4.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: DD / 8/1/97

ETR VP
LIFT TABLE
DID NOT
CHECK FROM
PORT ON EXIT.
NO NOT CORRECT
PORT.
ETR VP
DID NOT
CHECK FROM
PORT ON EXIT.
NO NOT CORRECT
PORT.
ETR VP
DID NOT
CHECK FROM
PORT ON EXIT.
NO NOT CORRECT
PORT.

already
there
DD
8/1/97

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

5.4.2 PERFORM Section VII.B, "EXIT DRUM ACCESS TO LLW GLOVEBOX", of operating procedure as follows:

5.4.2.1 REDLINE procedure as needed during performance.

✓ 5.4.2.2 VERIFY overpack drum OTP-LLW-OD-01 connected to LLW Exit Port and OPEN.

5.4.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: Q 18/10/97

5.5 REFERENCE procedure WRP1-OP-0713, LLW ENTRY GLOVEBOX OPERATION:

5.5.1 PERFORM Section VII.D, "MOVE DRUM TO DRUM TRANSFER CAR", of operating procedure as follows:

5.5.1.1 REDLINE procedure as needed during performance.

✓ 5.5.1.2 VERIFY drum OTP-LLW-WP-01 is positioned over transfer port 107-DO-07-102 and lowered onto drum transfer car.

5.5.1.3 VERIFY results of performance are acceptable.

TD Initials/Date: Q 18/10/97
8/12/97

5.6 REFERENCE procedure WRP1-OP-0714, LOW LEVEL WASTE (LLW) SORTING GLOVEBOX OPERATION:

5.6.1 PERFORM Section VII.B, "TRANSFER WASTE DRUM TO DELID POSITION", of operating procedure as follows:

5.6.1.1 REDLINE procedure as needed during performance.

5.6.1.2 VERIFY drum OTP-LLW-WP-01 at "DELID" position.

5.6.1.3 VERIFY results of performance are acceptable.

TD Initials/Date: Q 18/10/97

5.7A ✓ 13
OIC 1038
DISPLAY ON
TRANSFER CAR AT
ENTRY POSITION
DURING TRANSIT
SD
shelg

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

SD
5/12/97

ETA ✓ 4

Good pressure fixture
Had to overfill
to good drum
with paper pressure

5.6.2 PERFORM Section VII.C, "GRIP WASTE DRUM WITH DRUM TIPPER (107-DH-07-103)", of operating procedure as follows:

5.6.2.1 REDLINE procedure as needed during performance.

5.6.2.2 VERIFY plastic overbag removed from drum OTP-LLW-WP-01.

5.6.2.3 VERIFY drum tipper lowered and tipper grab closed around drum OTP-LLW-WP-01.

5.6.2.4 VERIFY results of performance are acceptable.

TD Initials/Date: SD / 5/12/97

ETA ✓ 14

Saw steel wire
messaged complete
missing
SD
5/12/97

5.6.3 PERFORM Section VII.D, "SAW WASTE DRUM CLAMP BAND", of operating procedure as follows:

5.6.3.1 REDLINE procedure as needed during performance.

5.6.3.2 VERIFY clamp band sawed, removed from drum OTP-LLW-WP-01, and placed on sorting table.

5.6.3.3 VERIFY results of performance are acceptable.

TD Initials/Date: SD / 5/12/97

5.6.4 PERFORM Section VII.E, "DELID WASTE DRUM", of operating procedure as follows:

5.6.4.1 REDLINE procedure as needed during performance.

5.6.4.2 VERIFY delid fixture removes lid from drum OTP-LLW-WP-01, and returns to it's "raised/parked" position with the lid.

5.6.4.3 VERIFY results of performance are acceptable.

TD Initials/Date: SD / 5/12/97

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

5.6.5 PERFORM Section VII.F, "EMPTY WASTE DRUM ONTO SORTING TABLE", of operating procedure as follows:

5.6.5.1 REDLINE procedure as needed during performance.

✓ 5.6.5.2 VERIFY tipper raises to dump contents of drum OTP-LLW-WP-01 onto sorting table, and returns to it's "lowered" position with the empty drum.

✓ 5.6.5.3 VERIFY DMSS0312 Parent PIN is OTP-LLW-WP-01, Sample = YES and Compliant? = YES.

5.6.5.4 VERIFY results of performance are acceptable.

TD Initials/Date: DD 8/12/97

5.6.6 PERFORM Section VII.G, "REMOVE NON-COMPLIANT PACKETS FROM WASTE", of operating procedure as follows:

✓ 5.6.6.1 REDLINE procedure as needed during performance.

✓ 5.6.6.2 VERIFY Sample OTP00001 is requested on DMSS0504 when directed by the operating procedures.

✓ 5.6.6.3 WHEN directed by this section of WRP1-OP-0714 to perform waste sampling, THEN GO to Step 5.7 of this procedure.

5.6.6.4 VERIFY results of performance are acceptable.

TD Initials/Date: DD 8/12/97

DD shaker
✓ 15
ETC
Sort Table stopped
at top position
- locks not pulling
position into.

DD shaker
✓ 30
ETC
DMS Shows Drum
WP01 AT Center +
SWITCH LOCATION
Simultaneously

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

5.7 REFERENCE procedure WRP1-OP-0710, GLOVEBOX WASTE SAMPLING:

5.7.1 PERFORM Section VII.B, "PREPARING TO SAMPLE" of operating procedure as follows:

5.7.1.1 REDLINE procedure as needed during performance.

✓ 5.7.1.2 VERIFY sample bottle labels OTP00001-01L and OTP00001-02L are printed using DMSS0508 and placed on sample bottles, when directed by the operating procedures.

5.7.1.3 VERIFY empty sample bottles OTP00001-01L and OTP00001-02L loaded into the LLW glovebox thru the consumable materials entry port when required.

5.7.1.4 VERIFY soil samples are collected in Sample bottles OTP00001-01L and OTP00001-02L.

5.7.1.5 VERIFY results of performance are acceptable.

TD Initials/Date: JD 12/12/97

5.7.2 PERFORM Section VII.C, "LOAD EMPTY SAMPLE BOTTLES INTO GLOVEBOX" of operating procedure as follows:

5.7.2.1 REDLINE procedure as needed during performance.

5.7.2.2 VERIFY empty sample bottles OTP00001-01L and OTP00001-02L loaded into LLW glovebox thru the consumable materials entry port.

5.7.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: JD 12/12/97

DO
not
add

more

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

*JP shd/97 1/29
E-TR
DMS scw
WRAP I*

5.7.3 PERFORM Section VII.C, "SAMPLING SEMI-SOLID/SOLID WASTE MATRICES" of operating procedure as follows:

5.7.3.1 REDLINE procedure as needed during performance.

5.7.3.2 VERIFY soil samples are collected in Sample bottles OTP00001-01L and OTP00001-02L.

5.7.3.3 VERIFY results of performance are acceptable.

TD Initials/Date: *JP* / 1/21/97

5.7.4 PERFORM Section VII.G, "FINAL SAMPLE PREPARATION AND LOADOUT", of operating procedure.

5.7.4.1 REDLINE procedure as needed during performance.

5.7.4.2 VERIFY sample bottles OTP00001-01L, OTP00001-02L are placed in STC-1.

*JP shd/97
No pig*

5.7.4.3 VERIFY STC-1 removed from glovebox and placed in transfer pig OTP6-97-400001.

5.7.4.4 VERIFY results of performance are acceptable.

TD Initials/Date: *JP* / 1/21/97

5.8 REFERENCE procedure WRP1-OP-0714, LOW LEVEL WASTE (LLW) SORTING GLOVEBOX OPERATION:

*E-TR 1/16
And table
"Proced to
hook on
extend
chain
JP shd/97"*

5.8.1 PERFORM Section VII.H, "RETURN COMPLIANT WASTE TO WASTE DRUM", of operating procedure as follows:

5.8.1.1 REDLINE procedure as needed during performance.

5.8.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: *JP* / 1/21/97

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

5.8.2 PERFORM Section VII.I, "MOVE WASTE DRUM TO RELID POSITION", of operating procedure as follows:

5.8.2.1 REDLINE procedure as needed during performance.

5.8.2.2 VERIFY results of performance are acceptable.

TD Initials/Date:

5.8.3 PERFORM Section VII.J, "RELID WASTE DRUM", of operating procedure as follows:

5.8.3.1 REDLINE procedure as needed during performance.

5.8.3.2 VERIFY drum OTP-LLW-WP-01 is re-lidded with c-clips attached.

5.8.3.3 VERIFY results of performance are acceptable.

TD Initials/Date:

5.8.4 PERFORM Section VII.K, "TRANSFER WASTE DRUM TO SUPERCOMPACTOR", of operating procedure as follows:

5.8.4.1 REDLINE procedure as needed during performance.

5.8.4.2 VERIFY drum OTP-LLW-WP-01 is delivered to Supercompactor.

5.8.4.3 PERFORM appropriate Sections of WPRI-OP-0715 when directed by this section of WRPI-OP-0714, to pass drum through Supercompactor without being crushed.

5.8.4.4 VERIFY results of performance are acceptable.

TD Initials/Date:

*DD
shdgn
Included with
section H*

*DD
shdgn
E-TR J 19
Added to
called
C-clip 1/18
position*

*DD
shdgn
E-TR J 18
TPR CAR overviews
DID NOT STOP DRUM
AFTER TRANSFER*

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

5.9 REFERENCE procedure WRP1-OP-0716, LLW EXIT GLOVEBOX OPERATION:

5.9.1 PERFORM Section VII.C, "PUCK RECEIPT AND WEIGHT MEASUREMENT",
of operating procedure as follows:

5.9.1.1 REDLINE procedure as needed during performance.

✓ 5.9.1.2 VERIFY puck barcode OTP001 is placed on drum
OTP-LLW-WP-01 and scanned.

✓ 5.9.1.3 VERIFY puck OTP001 is lifted and weighed on the
Exit Glovebox hoist.

5.9.1.4 VERIFY results of performance are acceptable.

TD Initials/Date: JD 18/10/97

5.9.2 PERFORM Section VII.D, "MOVE PUCK FROM RECEIPT TO LOAD OUT",
of operating procedure as follows:

5.9.2.1 REDLINE procedure as needed during performance.

✓ 5.9.2.2 VERIFY puck OTP001 is loaded into overpack drum
OTP-LLW-OD-01 at Exit port.

5.9.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: JD 18/10/97

ATTACHMENT 5 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 1

*Q
shd
ETR 124
Puck DATA
NOT DISPLAYED
ON DMSS0315
(Default H7)*

5.9.3 PERFORM Section VII.G, "RECORD COMPACT DRUM (PUCK) DATA", of operating procedure as follows:

5.9.3.1 REDLINE procedure as needed during performance.

5.9.3.2 ENTER on DMSS0315, the following data for puck OTP001 when directed by the operating procedure:

- WASTE DESCRIPTION:
- PUCK HEIGHT:

5.9.3.3 VERIFY results of performance are acceptable.

TD Initials/Date: DD, 8/14/97

5.9.4 PERFORM Section VII.H, "REMOVE OVERPACK FROM GLOVEBOX", of operating procedure as follows:

5.9.4.1 REDLINE procedure as needed during performance.

5.9.4.2 VERIFY overpack drum OTP-LLW-OD-01 is:

- 1) CLOSED,
- 2) Removed from Exit port,
- 3) Surveyed,
- 4) Removed from Lift Table LT-09-202C.

5.9.4.3 VERIFY following data is entered on DMSS0315 when directed by operating procedure:

- 1) BETA-GAMMA dose rate: (field entry)

5.9.4.4 VERIFY results of performance are acceptable.

TD Initials/Date: DD, 8/14/97

5.10 RUN DMS Report Script.

TD Initials/Date: DD, 8/14/97

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

1.0 GENERAL DESCRIPTION

1.1 Test case two will sample, compact and place in Exit Glovebox Storage LLW Test Drum 2. These operations will be performed using procedures WRP1-OP-0710 "Glovebox Waste Sampling," WRP1-OP-0713 "LLW Entry Glovebox Operation," WRP1-OP-0714 "Low Level Waste (LLW) Sorting Glovebox Operation," WRP1-OP-0706 "Packet NDE Operation," WRP1-OP-0715 "LLW Supercompactor Operation" and WRP1-OP-0716 "LLW Exit Glovebox Operation," thereby also performing the required procedure validation for sections performed. The sequence of events is as follows:

- ✓ 1.1.1 85 gallon shipping overpack OTP-LLW-OD-02, with 55 gallon LLW drum OTP-LLW-WP-02 inside, is connected to the LLW glovebox entry port and drum OTP-LLW-WP-02 is lifted into the LLW Entry glovebox
- ✓ 1.1.2 Drum OTP-LLW-WP-02 is checked for external contamination.
- 1.1.3 85 gallon drum OTP-LLW-OD-02 is closed and removed from the LLW Entry port and from lift table LT-09-202A.
- 1.1.4 Empty 85 gallon drum OTP-LLW-OD-02 (from entry port) is placed on lift table LT-09-202C (LLW Exit).
- 1.1.5 Drum OTP-LLW-OD-02 is connected to the LLW glovebox exit port and the port is opened.
- 1.1.6 Drum OTP-LLW-WP-02 is lifted by the LLW entry glovebox hoist, lowered through transfer port, and placed on transfer car.
- 1.1.7 Drum OTP-LLW-WP-02 is moved to the drum tipper, the lid is removed, and the drum contents are dumped on the sorting table.
- 1.1.8 NDE hard copy, DMS NDE comments and Sorting Glovebox Packet NDE, are used to find and identify three non-compliant packets.

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

- 1.1.9 Packet bar code label OTP6-97-000001 is applied to the unwrapped aerosol can of saline solution, the bar code is read, the packet is placed on the transfer stand, and data is entered in the DMS.
- 1.1.10 Packet bar code label OTP6-97-000002 is applied to the aerosol can of saline solution wrapped in bubble wrap and tape, the bar code is read, the packet is placed on the transfer stand, and data is entered in the DMS.
- 1.1.11 Packet bar code label OTP6-97-000003 is applied to the unlabeled aerosol can wrapped in cloth material and secured with tape, the bar code is read, the packet is placed on the transfer stand, and data is entered in the DMS.
- 1.1.12 The waste data for the sorted drum is updated on the DMS.
- 1.1.13 The waste on the sorting table is loaded back into drum OTP-LLW-WP-02, the drum is placed on the transfer car, the drum is relidged, and the transfer car with the drum is moved to the compactor.
- 1.1.14 Drum OTP-LLW-WP-02 is compacted.
- 1.1.15 Compacted drum OTP-LLW-WP-02 is moved to the exit glovebox. Bar code label OTP002 is placed on the puck and the barcode is read. The puck is then lifted by the hoist and the puck is weighed on the hoist scale. The ID and weight are sent to the DMS.
- 1.1.16 The puck is stored at Storage Location 1.
- 1.1.17 The transfer stand is placed in transfer drum OTP-LLWR-TD-01 and the drum is closed and removed from the transfer drum port and from lift table LT-09-201F.

2.0 SAFETY

2.1 Reference OTP Section 8, SAFETY.

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

3.0 TOOLS, EQUIPMENT AND SUPPLIES

- Drum handling (manual) equipment or Pallet fork truck
- Spill Kit/Decontamination Equipment (oils/chemicals)
- Tape and rags
- Other equipment, material or protective clothing (as required)

4.0 TEST PREREQUISITES

4.1 VERIFY OTP Section 11.0, PREREQUISITES are complete.

4.2 SET initial conditions as follows:

- DD*
shd
not req.
- ✓ 4.2.1 55 gallon LLW drum OTP-LLW-WP-02 in shipping overpack
OTP-LLW-OD-02 is on lift table LT-09-202A.
 - 4.2.2 The PCS man_op program has sent an AGVPCS AGVL message for
the AGV located at AGVLLWENTR (LT-09-202A) with drum
OTP-LLW-OD-02 (sets LCU conditions for drum OTP-LLW-OD-02 on
lift table LT-09-202A).
 - ✓ 4.2.3 Transfer drum OTP-LLWR-TD-01 is connected to the LLW glovebox
RWM transfer port and the empty transfer stand is at the LLW
glovebox sorting location.
 - ✓ 4.2.4 Sequentially numbered packet barcode labels are available in
the LLW sorting glovebox.
 - ✓ 4.2.5 Sequentially numbered puck barcode labels are available in
the LLW exit glovebox.
 - ✓ 4.2.6 A user with general operator (GENOP) privileges is logged on
to the DMS LLW Terminal (107-TE-12-104)
 - ✓ 4.2.7 DMS Database unchanged from Test Case 1.
 - ✓ 4.2.8 PCS Database unchanged from Test Case 1.

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

4.3 UPDATE PCS Tracking Table as follows:

4.3.1 Drum OTP-LLW-WP-02 in shipping overpack OTP-LLW-OD-02 at LT-09-202A.

PCS TRACKING TABLE FOR LLW LIFT TABLES		
LIFT TABLE	Registers	
	PIN OTP-LLW-OD-02	Drum Present (=1)
LT-09-202A	N31: 35-41	N31: 46 bit 12

4.4 TEST PREREQUISITES are complete and acceptable.

TD Initials/Date: 201 8/12/97

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

5.0 PROCEDURE

5.1 REFERENCE procedure WRP1-OP-0713, LLW ENTRY GLOVEBOX OPERATION:

5.1.1 PERFORM Section VII.A, "INITIALIZE SYSTEM", of operating procedure as follows:

5.1.1.1 REDLINE procedure as needed during performance.

5.1.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: RD / 8/12/97

5.1.2 PERFORM Section VII.B, "DRUM ENTRY TO LLW GLOVEBOX", of operating procedure as follows:

5.1.2.1 REDLINE procedure as needed during performance.

5.1.2.2 VERIFY overpack drum OTP-LLW-OD-02 OPEN and inner drum OTP-LLW-WP-02 on hoist at "SWAB" position.

5.1.2.3 VERIFY DMSS0311 indicates overpack drum OTP-LLW-OD-02 and inner drum OTP-LLW-WP-02 at glovebox with message "Sorting Required".

5.1.2.4 VERIFY results of performance are acceptable.

TD Initials/Date: RD / 8/12/97

RD 8/12/97
ETC ✓ 19
Sequence failed
on drum gear
lim of drum
ETC ✓ 19
Teller closed limit
switch needs adjustment ✓
RD 8/12/97
ETC ✓ 19
Pot still not release
during drum spin
(5.1.3)

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

5.1.3 PERFORM Section VII.C, "CLOSE ENTRY PORT", of operating procedure as follows:

5.1.3.1 N/A
DD
8/12/97

5.1.3.1 REDLINE procedure as needed during performance.

5.1.3.2 VERIFY ENTRY port is CLOSED, overpack drum OTP-LLW-OD-02 is lowered from port and checked for contamination.

5.1.3.3 SELECT "CLEAN DRUM READY FOR PICKUP" when prompted by OIU.

5.1.3.4 VERIFY overpack drum OTP-LLW-OD-02 is removed from Lift Table LT-09-202A.

5.1.3.5 VERIFY results of performance are acceptable.

TD Initials/Date: DD 8/12/97

DD
8/12/97

5.1.4 ~~MOVE overpack drum OTP-LLW-OD-02 (manually) to AGV end of Lift Table LT-09-202C at LLW Exit Port.~~

N/A

TD Initials/Date: DD 8/12/97

5.1.5 Run PCS man op program to send AGVPCS AGVL message for AGV at AGVLLWEXIT (LT-09-202C) with drum OTP-LLW-OD-02 (sets LCU conditions for drum OTP-LLW-OD-02 on lift table LT-09-202C.)

NOT
REQUIRED
DD
8/12/97

TD Initials/Date: /

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

5.2 REFERENCE procedure WRP1-OP-0716, LLW EXIT GLOVEBOX OPERATION:

5.2.1 PERFORM Section VII.A, "INITIALIZE SYSTEM", of operating procedure as follows:

5.2.1.1 REDLINE procedure as needed during performance.

5.2.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: DL 1 8/15/97

5.2.2 PERFORM Section VII.B, "EXIT DRUM ACCESS TO LLW GLOVEBOX", of operating procedure as follows:

5.2.2.1 REDLINE procedure as needed during performance.

✓ 5.2.2.2 VERIFY overpack drum OTP-LLW-OD-02 connected to LLW Exit Port and OPEN.

5.2.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: DL 1 8/15/97

5.3 REFERENCE procedure WRP1-OP-0713, LLW ENTRY GLOVEBOX OPERATION:

5.3.1 PERFORM Section VII.D, "MOVE DRUM TO DRUM TRANSFER CAR", of operating procedure as follows:

5.3.1.1 REDLINE procedure as needed during performance.

5.3.1.2 VERIFY drum OTP-LLW-WP-02 is positioned over transfer port 107-DO-07-102 and lowered onto drum transfer car.

5.3.1.3 VERIFY results of performance are acceptable.

TD Initials/Date: DL 1 8/15/97

5.4 REFERENCE procedure WRP1-OP-0714, LOW LEVEL WASTE (LLW) SORTING GLOVEBOX OPERATION:

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

5.4.1 PERFORM Section VII.B, "TRANSFER WASTE DRUM TO DELID POSITION", of operating procedure as follows:

5.4.1.1 REDLINE procedure as needed during performance.

5.4.1.2 VERIFY drum OTP-LLW-WP-02 at "DELID" position.

5.4.1.3 VERIFY results of performance are acceptable.

TD Initials/Date: JD, 8/2/97

5.4.2 PERFORM Section VII.C, "GRIP WASTE DRUM WITH DRUM TIPPER (107-DH-07-103)", of operating procedure as follows:

5.4.2.1 REDLINE procedure as needed during performance.

5.4.2.2 ~~VERIFY plastic overbag removed from drum~~
~~OTP-LLW-WP-02.~~

5.4.2.3 VERIFY drum tipper lowered and tipper grab closed around drum OTP-LLW-WP-02.

5.4.2.4 VERIFY results of performance are acceptable.

TD Initials/Date: JD, 8/2/97

5.4.3 PERFORM Section VII.D, "SAW WASTE DRUM CLAMP BAND", of operating procedure as follows:

5.4.3.1 REDLINE procedure as needed during performance.

5.4.3.2 VERIFY clamp band sawed, removed from drum OTP-LLW-WP-02, and placed on sorting table.

5.4.3.3 VERIFY results of performance are acceptable.

TD Initials/Date: JD, 8/2/97

5.4.4 PERFORM Section VII.E, "DELID WASTE DRUM", of operating procedure as follows:

5.4.4.1 REDLINE procedure as needed during performance.

JD 8/2/97
Must go to
C-02 position to
remove plastic wrap
on drum

JD 8/2/97
+
ETR ✓
grab pressure
switch bad.

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

5.4.4.2 VERIFY delid fixture removes lid from drum
OTP-LLW-WP-02, and returns to it's "raised/parked"
position with the lid.

5.4.4.3 VERIFY results of performance are acceptable.

TD Initials/Date: JD / 8/14/97

5.4.5 PERFORM Section VII.F, "EMPTY WASTE DRUM ONTO SORTING TABLE",
of operating procedure as follows:

5.4.5.1 REDLINE procedure as needed during performance.

5.4.5.2 VERIFY tipper raises to dump contents of drum
OTP-LLW-WP-02 onto sorting table, and returns to
it's "lowered" position with the empty drum.

5.4.5.3 VERIFY DMSS0312 Parent PIN is OTP-LLW-WP-02,
Sample = NO and Compliant? = NO.

5.4.5.4 VERIFY results of performance are acceptable.

TD Initials/Date: JD / 8/14/97

JD
8/14/97 25
ETR ✓
PCS Parent
OTP-LLW-WP-01
TO DMSS12

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

5.4.6 PERFORM Section VII.G, "REMOVE NON-COMPLIANT PACKETS FROM WASTE", of operating procedure as follows:

5.4.6.1 REDLINE procedure as needed during performance.

✓ 5.4.6.2 IDENTIFY three non-compliant packages using NDE hard copy from receiving, DMS NDE comments and Packet NDE:

1) VIEW DMS NDE comments on DMSS0312

2) PERFORM WRP1-OP-0706, PACKET NDE OPERATION in it's entirety on at least one non-compliant package.

✓ 5.4.6.3 VERIFY Packet bar code label OTP6-97-000001 is applied to the unwrapped aerosol can of saline solution, the bar code is read, and the packet is placed on the transfer stand.

✓ 1) DISPLAY DMSS0312 LLW Non-Compliant Screen after the barcodes are read,

✓ 2) ENTER the following for PIN OTP6-97-000001:

Group: AC

Waste Description: AEROSOL CAN OF SALINE SOLUTION

5.4.6.4 VERIFY Packet bar code label OTP6-97-000002 is applied to the aerosol can of saline solution wrapped in bubble wrap and tape, the bar code is read, and packet is placed on the transfer stand.

✓ 1) REFRESH DMSS0312 LLW Non-Compliant Screen after the barcodes are read,

✓ 2) ENTER the following for PIN OTP6-97-000002:

Group: AC

Waste Description: AEROSOL CAN

6/14/97

ETR

✓ 20
NDE
NOT AVAILABLE



ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

5.4.6.5 VERIFY Packet bar code label OTP6-97-000003 is applied to the unlabeled aerosol can of saline solution wrapped in cloth and tape, bar code is read, and packet is placed on transfer stand.

- ✓ 1) REFRESH DMSS0312 LLW Non-Compliant Screen after the barcodes are read,
- ✓ 2) ENTER the following for PIN OTP6-97-000003:

Group: AC
Waste Description: AEROSOL CAN

5.4.6.6 UPDATE sorted drum data in DMS:

- 1) SELECT DMSS0312 "Physcomp" screen.
 - DELETE HAZARDOUS CONSTITUENTS record
 - CHANGE CONWEB PADS volume percent to 98
 - CHANGE WATER volume percent to 2.
- 2) SELECT DMSS0312 "Chemcomp" screen.
 - DELETE the two records.

5.4.6.7 VERIFY results of performance are acceptable.

TD Initials/Date: Q 1/8/97

5.4.7 PERFORM Section VII.H, "RETURN COMPLIANT WASTE TO WASTE DRUM", of operating procedure as follows:

5.4.7.1 REDLINE procedure as needed during performance.

5.4.7.2 VERIFY results of performance are acceptable.

TD Initials/Date: Q 1/8/97

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

5.4.8 PERFORM Section VII.I, "MOVE WASTE DRUM TO RELID POSITION", of operating procedure as follows:

5.4.8.1 REDLINE procedure as needed during performance.

5.4.8.2 VERIFY results of performance are acceptable.

TD Initials/Date:

5.4.9 PERFORM Section VII.J, "RELID WASTE DRUM", of operating procedure as follows:

5.4.9.1 REDLINE procedure as needed during performance.

5.4.9.2 VERIFY drum OTP-LLW-WP-02 is re-lidded with c-clips attached.

5.4.9.3 VERIFY results of performance are acceptable.

TD Initials/Date:

5.4.10 PERFORM Section VII.K, "TRANSFER WASTE DRUM TO SUPERCOMPACTOR", of operating procedure as follows:

5.4.10.1 REDLINE procedure as needed during performance.

5.4.10.2 PERFORM appropriate Sections of WPR1-OP-0715 to ensure Supercompactor is in Automatic and ready to receive drums.

5.4.10.3 VERIFY drum OTP-LLW-WP-02 is delivered to Supercompactor and automatically compacted.

5.4.10.4 VERIFY results of performance are acceptable.

TD Initials/Date:

slm/g7

Drum
Accuracy AT
Relid pos.
N/A

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

5.5 REFERENCE procedure WRP1-OP-0716, LLW EXIT GLOVEBOX OPERATION:

5.5.1 PERFORM Section VII.C, "PUCK RECEIPT AND WEIGHT MEASUREMENT",
of operating procedure as follows:

5.5.1.1 REDLINE procedure as needed during performance.

✓ 5.5.1.2 VERIFY puck barcode OTP002 is placed on drum
OTP-LLW-WP-02 and scanned.

✓ 5.5.1.3 VERIFY puck OTP002 is lifted and weighed on the
Exit Glovebox hoist.

5.5.1.4 VERIFY results of performance are acceptable.

TD Initials/Date: DD 15/10/97

5.5.2 PERFORM Section VII.D, "MOVE PUCK FROM RECEIPT TO STORAGE",
of operating procedure as follows:

5.5.2.1 REDLINE procedure as needed during performance.

✓ 5.5.2.2 VERIFY drum OTP-LLW-WP-02 is moved to Storage
Position 1.

5.5.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: DD 15/10/97

DD 15/10/97

ATTACHMENT 6 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 2

5.6 REFERENCE procedure WRP1-OP-0714, LOW LEVEL WASTE (LLW) SORTING GLOVEBOX OPERATION:

5.6.1 PERFORM Section VII.L, "PLACE TRANSFER STAND IN RWM TRANSFER DRUM", of operating procedure as follows:

5.6.1.1 REDLINE procedure as needed during performance.

5.6.1.2 VERIFY transfer stand is placed in transfer drum OTP-LLWR-TD-01.

5.6.1.3 VERIFY results of performance are acceptable.

TD Initials/Date: DL 8/13/97

5.6.2 PERFORM Section VII.M, "REMOVE DRUM FROM RWM TRANSFER PORT (107-D0-07-105)", of operating procedure as follows:

5.6.2.1 REDLINE procedure as needed during performance.

5.6.2.2 VERIFY transfer drum OTP-LLWR-TD-01 is closed and removed from port.

5.6.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: DL 8/13/97

5.7 REMOVE transfer drum OTP-LLWR-TD-01 manually from Lift Table LT-09-201F.

5.8 RUN DMS Report Script.

TD Initials/Date: DL 8/13/97

AD 8/13/97
ETR
Lift Table
Code 22 available
Required Port &
Lower.

ATTACHMENT 7 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 3

1.0 GENERAL DESCRIPTION

- 1.1 Test case three will compact and overpack LLW Test Drum 3 without sorting. These operations will be performed using procedures WRP1-OP-0713 "LLW Entry Glovebox Operation," WRP1-OP-0714 "Low Level Waste (LLW) Sorting Glovebox Operation," WRP1-OP-0715 "LLW Supercompactor Operation" and WRP1-OP-0716 "LLW Exit Glovebox Operation," thereby also performing the required procedure validation for sections performed. The sequence of events is as follows:
 - 1.1.1 85 gallon shipping overpack OTP-LLW-OD-03, with 55 gallon LLW drum OTP-LLW-WP-03 inside, is connected to the LLW glovebox entry port and drum OTP-LLW-WP-03 is lifted into the LLW Entry glovebox.
 - 1.1.2 Drum OTP-LLW-WP-03 is checked for external contamination.
 - 1.1.3 85 gallon drum OTP-LLW-OD-03 is closed and removed from the LLW Entry port and from lift table LT-09-202A.
 - 1.1.4 Drum OTP-LLW-WP-03 is lifted by the LLW entry glovebox hoist, lowered through the transfer port, and placed on the transfer car.
 - 1.1.5 Drum OTP-LLW-WP-03 is moved to the drum tipper and the lid band clamp is removed.
 - 1.1.6 Lid C clamps are put on drum OTP-LLW-WP-03 and the transfer car with the drum is moved to the compactor.
 - 1.1.7 Drum OTP-LLW-WP-03 is compacted.
 - 1.1.8 Compacted drum OTP-LLW-WP-03 is moved to the exit glovebox. Bar code label OTP003 is placed on the puck and the barcode is read. The puck is then lifted by the hoist and the puck is weighed on the hoist scale. The ID and weight are sent to the DMS.
 - 1.1.9 The puck is loaded into the overpack at the exit port.

ATTACHMENT 7 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 3

2.0 SAFETY

2.1 Reference OTP Section 8, SAFETY.

3.0 TOOLS, EQUIPMENT AND SUPPLIES

- Drum handling (manual) equipment or Pallet fork truck
- Spill Kit/Decontamination Equipment (oils/chemicals)
- Tape and rags
- Other equipment, material or protective clothing (as required)

4.0 TEST PREREQUISITES

4.1 VERIFY OTP Section 11.0, PREREQUISITES are complete.

4.2 SET initial conditions as follows:

- ✓ 4.2.1 55 gallon LLW drum OTP-LLW-WP-03 in shipping overpack
OTP-LLW-OD-03 is on lift table LT-09-202A.

- Not Required* 4.2.2 The PCS man op program has sent an AGVPCS AGVL message for
the AGV located at AGVLLWENTR (LT-09-202A) with drum
OTP-LLW-OD-03 (sets LCU conditions for drum OTP-LLW-OD-03 on
lift table LT-09-202A).

- ✓ 4.2.3 85 gallon overpack drum OTP-LLW-OD-02 is connected to the LLW
glovebox exit port.

- 4.2.4 Sequentially numbered puck barcode labels are available in
the LLW exit glovebox.

- ✓ 4.2.5 A user with general operator (GENOP) privileges is logged on
to the DMS LLW Terminal (107-TE-12-104)

- ✓ 4.2.6 DMS Database unchanged from Test Case 2.

- ✓ 4.2.7 PCS Database unchanged from Test Case 2.

ATTACHMENT 7 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 3

✓ 4.3 UPDATE PCS Tracking Table as follows:

4.3.1 Drum OTP-LLW-WP-03 in shipping overpack OTP-LLW-OD-03 at
LT-09-202A.

PCS TRACKING TABLE FOR LLW LIFT TABLES		
LIFT TABLE	Registers	
	PIN	Drum Present (=1)
LT-09-202A	N31: 35-41	N31: 46 bit 12

4.4 TEST PREREQUISITES are complete and acceptable.

TD Initials/Date:

 / 8/13/97

ATTACHMENT 7 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 3

5.0 PROCEDURE

5.1 REFERENCE procedure WRPI-OP-0713, LLW ENTRY GLOVEBOX OPERATION:

5.1.1 PERFORM Section VII.A, "INITIALIZE SYSTEM", of operating procedure as follows:

5.1.1.1 REDLINE procedure as needed during performance.

5.1.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: RL 18/13/97

5.1.2 PERFORM Section VII.B, "DRUM ENTRY TO LLW GLOVEBOX", of operating procedure as follows:

5.1.2.1 REDLINE procedure as needed during performance.

5.1.2.2 VERIFY overpack drum OTP-LLW-OD-03 OPEN and inner drum OTP-LLW-WP-03 on hoist at "SWAB" position.

5.1.2.3 ~~VERIFY~~ DMSS0311 indicates overpack drum OTP-LLW-OD-03 and inner drum OTP-LLW-WP-03 at glovebox with message "Sorting Not Required".

5.1.2.4 VERIFY results of performance are acceptable.

TD Initials/Date: RL 18/13/97

ATTACHMENT 7 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 3

5.1.3 PERFORM Section VII.C, "CLOSE ENTRY PORT", of operating procedure as follows:

- 5.1.3.1 REDLINE procedure as needed during performance.
- ✓ 5.1.3.2 VERIFY ENTRY port is CLOSED, overpack drum OTP-LLW-OD-03 is lowered from port and checked for contamination.
- ✓ 5.1.3.3 SELECT "CLEAN DRUM READY FOR PICKUP" when prompted by OIU.
- ✓ 5.1.3.4 VERIFY overpack drum OTP-LLW-OD-03 is removed from Lift Table LT-09-202A.
- 5.1.3.5 VERIFY results of performance are acceptable.

TD Initials/Date: QQ 1 8/13/97

5.1.4 PERFORM Section VII.D, "MOVE DRUM TO DRUM TRANSFER CAR", of operating procedure as follows:

- 5.1.4.1 REDLINE procedure as needed during performance.
- ✓ 5.1.4.2 VERIFY drum OTP-LLW-WP-03 is positioned over transfer port 107-DO-07-102 and lowered onto drum transfer car.
- 5.1.4.3 VERIFY results of performance are acceptable.

TD Initials/Date: QQ 1 5/13/97

ATTACHMENT 7 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 3

5.2 REFERENCE procedure WRP1-OP-0714, LOW LEVEL WASTE (LLW) SORTING GLOVEBOX OPERATION:

5.2.1 PERFORM Section VII.B, "TRANSFER WASTE DRUM TO DELID POSITION", of operating procedure as follows:

- 5.2.1.1 REDLINE procedure as needed during performance.
- 5.2.1.2 VERIFY drum OTP-LLW-WP-03 at "DELID" position.
- 5.2.1.3 VERIFY results of performance are acceptable.

TD Initials/Date: DL / 8/13/97

5.2.2 PERFORM Section VII.C, "GRIP WASTE DRUM WITH DRUM TIPPER (107-DH-07-103)", of operating procedure as follows:

- 5.2.2.1 REDLINE procedure as needed during performance.
- 5.2.2.2 VERIFY plastic overbag removed from drum OTP-LLW-WP-03.
- 5.2.2.3 VERIFY drum tipper lowered and tipper grab closed around drum OTP-LLW-WP-03.
- 5.2.2.4 VERIFY results of performance are acceptable.

TD Initials/Date: DL / 8/13/97

5.2.3 PERFORM Section VII.D, "SAW WASTE DRUM CLAMP BAND", of operating procedure as follows:

- 5.2.3.1 REDLINE procedure as needed during performance.
- 5.2.3.2 VERIFY clamp band sawed, removed from drum OTP-LLW-WP-03, and placed on sorting table.
- 5.2.3.3 VERIFY results of performance are acceptable.

TD Initials/Date: DL / 8/13/97

*ETN
Sequence did not
start - Future Park
switch - had to
move future.
DL 8/13/97*

MA

ATTACHMENT 7 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 3

5.2.4 PERFORM Section VII.I, "MOVE WASTE DRUM TO RELID POSITION", of operating procedure as follows:

1A
20
8/13/97

5.2.4.1 REDLINE procedure as needed during performance.

5.2.4.2 VERIFY results of performance are acceptable.

TD Initials/Date: _____ / _____

5.2.5 PERFORM Section VII.J, "RELID WASTE DRUM", of operating procedure as follows:

5.2.5.1 REDLINE procedure as needed during performance.

5.2.5.2 VERIFY drum OTP-LLW-WP-03 is re-lidded with c-clips attached.

5.2.5.3 VERIFY results of performance are acceptable.

TD Initials/Date: ll / 8/13/97

5.2.6 PERFORM Section VII.K, "TRANSFER WASTE DRUM TO SUPERCOMPACTOR", of operating procedure as follows:

5.2.6.1 REDLINE procedure as needed during performance.

5.2.6.2 PERFORM appropriate Sections of WPRI-OP-0715 to ensure Supercompactor is in Automatic and ready to receive drums.

5.2.6.3 VERIFY drum OTP-LLW-WP-03 is delivered to Supercompactor and automatically compacted.

5.2.6.4 VERIFY results of performance are acceptable.

TD Initials/Date: ll / 8/13/97

ATTACHMENT 7 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 3

5.3 REFERENCE procedure WRP1-OP-0716, LLW EXIT GLOVEBOX OPERATION:

5.3.1 PERFORM Section VII.C, "PUCK RECEIPT AND WEIGHT MEASUREMENT", of operating procedure as follows:

5.3.1.1 REDLINE procedure as needed during performance.

5.3.1.2 VERIFY puck barcode OTP003 is placed on drum OTP-LLW-WP-03 and scanned.

5.3.1.3 VERIFY puck OTP003 is lifted and weighed on the Exit Glovebox hoist.

5.3.1.4 VERIFY results of performance are acceptable.

TD Initials/Date: DD / 8/18/97

5.3.2 PERFORM Section VII.D, "MOVE PUCK FROM RECEIPT TO LOAD OUT", of operating procedure as follows:

5.3.2.1 REDLINE procedure as needed during performance.

5.3.2.2 VERIFY puck OTP003 is loaded into overpack drum OTP-LLW-OD-02 at Exit port.

5.3.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: DD / 8/18/97

ATTACHMENT 7 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 3

5.3.3 PERFORM Section VII.G, "RECORD COMPACT DRUM (PUCK) DATA", of operating procedure as follows:

5.3.3.1 REDLINE procedure as needed during performance.

5.3.3.2 ENTER on DMSS0315, the following data for puck OTP003 when directed by the operating procedure:

- WASTE DESCRIPTION:
- PUCK HEIGHT:

5.3.3.3 VERIFY results of performance are acceptable.

TD Initials/Date: el / 8/18/07

5.4. RUN DMS Report Script.

TD Initials/Date: el / 8/18/07

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

1.0 GENERAL DESCRIPTION

- 1.1 Test Case four will treat items in Transfer Drum 2 packets and samples in STC-2 which were taken from these items. These operations will be tested using procedures WRP1-OP-0710, Glovebox-Waste Sampling, WRP1-OP-0728, LLW Glovebox Operation and WRP1-OP-0711, Waste Treatment, thereby also performing the required procedure validation for sections performed. The sequence of events is as follows:
 - 1.1.1 Transfer drum OTP-LLWR-TD-02 is connected to the LLW glovebox RWM bagless transfer port and the port is opened.
 - 1.1.2 Transfer stand is moved to the sorting table.
 - 1.1.3 85 gallon shipping overpack OTP-LLW-OD-04, with 55 gallon LLW drum OTP-LLW-WP-04 inside, is connected to the LLW glovebox entry port and drum OTP-LLW-WP-04 is lifted into the LLW Entry glovebox.
 - 1.1.4 Drum OTP-LLW-WP-04 is checked for external contamination.
 - 1.1.5 85 gallon drum OTP-LLW-OD-04 is closed and removed from the LLW Entry port and from lift table LT-09-202A.
 - 1.1.6 Drum OTP-LLW-WP-04 is lifted by the LLW entry glovebox hoist, lowered through the transfer port, and placed on the transfer car.
 - 1.1.7 Drum OTP-LLW-WP-04 is moved to the drum tipper, the lid is removed, and the drum contents are dumped on the sorting table.
 - 1.1.8 The Packet X-ray, NDE hard copy, and DMS NDE comments are used to find and identify three non-compliant packets.
 - 1.1.9 Packet bar code label OTP6-97-000004 is applied to the lead brick in two plastic bags wrapped with tape, the bar code is read, the packet is placed on the transfer stand, and data is entered in the DMS.

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

- 1.1.10 Packet bar code label OTP6-97-000005 is applied to the bottle of solvent and bottle of oil wrapped together in cloth with tape, the bar code is read, the packet is placed on the transfer stand, and data is entered in the DMS.
- 1.1.11 Packet bar code label OTP6-97-000006 is applied to the bottle of acid, the bar code is read, the packet is placed on the transfer stand, and data is entered in the DMS.
- 1.1.12 The waste data for the sorted drum is updated on the DMS.
- 1.1.13 The waste on the sorting table is loaded back into drum OTP-LLW-WP-04, the drum is placed on the transfer car, the drum is relidded, and the transfer car with the drum is moved to the compactor.
- 1.1.14 Drum OTP-LLW-WP-04 is compacted.
- 1.1.15 Compacted drum OTP-LLW-WP-04 is moved to the exit glovebox. Bar code label OTP004 is placed on the puck and the barcode is read. The puck is then lifted by the hoist and the puck is weighed on the hoist scale. The ID and weight are sent to the DMS.
- 1.1.16 Puck P00004 is loaded into the overpack at the exit port.
- 1.1.17 Puck P00002 is lifted by the hoist, weighed, and placed in the overpack drum.
- 1.1.18 Filler is added to overpack drum OTP-LLW-OD-01 and the drum is prepared for loadout.
- 1.1.19 Overpack drum OTP-LLW-OD-01 is (1) closed, (2) removed from the LLW glovebox exit port, (3) surveyed, and (4) removed from lift table LT-09-202C.
- 1.1.20 The transfer stand is placed in transfer drum OTP-LLWR-TD-02 and the drum is closed and removed from the transfer drum port and from Lift Table LT-09-201F.

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

2.0 SAFETY

2.1 Reference OTP Section 8, SAFETY.

3.0 TOOLS, EQUIPMENT AND SUPPLIES

- Drum handling (manual) equipment or Pallet fork truck
- Spill Kit/Decontamination Equipment (oils/chemicals)
- Tape and rags
- Other equipment, material or protective clothing (as required)

4.0 TEST PREREQUISITES

4.1 VERIFY OTP Section 11.0, PREREQUISITES are complete.

4.2 SET initial conditions as follows:

✓ 4.2.1 55 gallon LLW drum OTP-LLW-WP-04 in shipping overpack
OTP-LLW-OD-04 is on lift table LT-09-202A.

SD 8/14/97
4.2.2 The PCS man_op program has sent an AGVPCS AGVL message for
the AGV located at AGVLLWRWX (LT-09-202A) with drum
OTP-LLW-WP-04 (sets LCU conditions for drum OTP-LLW-WP-04 on
lift table LT-09-202A.)

✓ 4.2.3 Empty transfer drum OTP-LLWR-TD-02 is on lift table
LT-09-203A.

SD 8/14/97
4.2.4 The PCS man_op program has sent an AGVPCS AGVL message for
the AGV located at AGVLLWRWX (LT-09-203A) with drum
OTP-LLWR-TD-02 (sets LCU conditions for drum OTP-LLWR-TD-02
on lift table LT-09-203A).

4.2.5 85 gallon overpack drum OTP-LLW-OD-02 is connected to the LLW
glovebox exit port.

✓ 4.2.6 Sequentially numbered packet barcode labels are available in
the LLW sorting glovebox.

✓ 4.2.7 Sequentially numbered puck barcode labels are available in
the LLW exit glovebox.

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

4.2.8 A user with general operator (GENOP) privileges is logged on to the DMS LLW Terminal (107-TE-12-104)

4.2.9 DMS Database unchanged from Test Case 3.

4.2.10 PCS Database unchanged from Test Case 3.

4.3 UPDATE PCS Tracking Table as follows:

4.3.1 Drum OTP-LLW-WP-04 in shipping overpack OTP-LLW-OD-04 at LT-09-202A.

PCS TRACKING TABLE FOR LLW LIFT TABLES		
LIFT TABLE	Registers	
	PIN	Drum Present (=1)
LT-09-202A	OTP-LLW-WP-04 N31: 35-41	N31: 46 bit 12

LT-09-202A *SL* N31: 47-53 N31: 58 / 12
SL 1/8/97
OTP-LLW-OD-04

4.4 TEST PREREQUISITES are complete and acceptable.

TD Initials/Date: *SL* 1/8/97

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

5.0 PROCEDURE

5.1 REFERENCE procedure WRP1-OP-0714, LOW LEVEL WASTE (LLW) SORTING GLOVEBOX OPERATION:

5.1.1 PERFORM Section VII.A, "INITIALIZE SYSTEM", of operating procedure as follows:

5.1.1.1 REDLINE procedure as needed during performance.

5.1.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: RD 1 8/14/97

5.1.2 PERFORM Section VII.N, "MATE DRUM TO RWM TRANSFER PORT (107-DO-07-105)", of operating procedure as follows:

5.1.2.1 REDLINE procedure as needed during performance.

5.1.2.2 VERIFY drum OTP-LLWR-TD-02 connected to port 107-DO-07-105 and port OPEN.

5.1.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: RD 1 8/14/97

5.1.3 PERFORM Section VII.O, "REMOVE TRANSFER STAND FROM RWM TRANSFER DRUM", of operating procedure as follows:

5.1.3.1 REDLINE procedure as needed during performance.

5.1.3.2 VERIFY transfer stand at glovebox sorting table.

5.1.3.3 VERIFY results of performance are acceptable.

TD Initials/Date: RD 1 8/14/97

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

5.2 REFERENCE procedure WRP1-OP-0713, LLW ENTRY GLOVEBOX OPERATION:

5.2.1 PERFORM Section VII.A, "INITIALIZE SYSTEM", of operating procedure as follows:

5.2.1.1 REDLINE procedure as needed during performance.

5.2.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: JD 1/8/97

5.2.2 PERFORM Section VII.B, "DRUM ENTRY TO LLW GLOVEBOX", of operating procedure as follows:

5.2.2.1 REDLINE procedure as needed during performance.

✓ 5.2.2.2 VERIFY overpack drum OTP-LLW-OD-04 OPEN and inner drum OTP-LLW-WP-04 on hoist at "SWAB" position.

5.2.2.3 VERIFY DMSS0311 indicates overpack drum OTP-LLW-OD-04 and inner drum OTP-LLW-WP-04 at glovebox with message "Sorting Required".

5.2.2.4 VERIFY results of performance are acceptable.

TD Initials/Date: JD 1/8/97

ETR ✓ 26
- CD-03 5 can error
should be displayed on ozn
- END, YES - then old
RECORD.
19
ETR
Pick Talls required
manual adj. to sequence
sequence. - (comb. switch)
19
ETR ✓
Hoist After
"Clear" pick mistake
Need adj.
20
shd 97

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

5.2.3 PERFORM Section VII.C, "CLOSE ENTRY PORT", of operating procedure as follows:

- 5.2.3.1 REDLINE procedure as needed during performance.
- ✓ 5.2.3.2 VERIFY ENTRY port is CLOSED, overpack drum OTP-LLW-OD-04 is lowered from port and checked for contamination.
- ✓ 5.2.3.3 SELECT "CLEAN DRUM READY FOR PICKUP" when prompted by OIU.
- ✓ 5.2.3.4 VERIFY overpack drum OTP-LLW-OD-04 is removed from Lift Table LT-09-202A.
- 5.2.3.5 VERIFY results of performance are acceptable.

TD Initials/Date: RL 8/1/97

5.2.4 PERFORM Section VII.D, "MOVE DRUM TO DRUM TRANSFER CAR", of operating procedure as follows:

- 5.2.4.1 REDLINE procedure as needed during performance.
- ✓ 5.2.4.2 VERIFY drum OTP-LLW-WP-04 is positioned over transfer port 107-DO-07-102 and lowered onto drum transfer car.
- 5.2.4.3 VERIFY results of performance are acceptable.

TD Initials/Date: RL 8/1/97

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

5.3 REFERENCE procedure WRP1-OP-0714, LOW LEVEL WASTE (LLW) SORTING GLOVEBOX OPERATION:

XFER CAR TO
C-CELL POSITION
TO REMOVE PAR
D
station

5.3.1 PERFORM Section VII.B, "TRANSFER WASTE DRUM TO DELID POSITION", of operating procedure as follows:

- 5.3.1.1 REDLINE procedure as needed during performance.
- 5.3.1.2 VERIFY drum OTP-LLW-WP-04 at "DELID" position.
- 5.3.1.3 VERIFY results of performance are acceptable.

TD Initials/Date: DL 5/14/97

5.3.2 PERFORM Section VII.C, "GRIP WASTE DRUM WITH DRUM TIPPER (107-DH-07-103)", of operating procedure as follows:

DD
5/14/97
Move 1-
5.3.5

5.3.2.1 REDLINE procedure as needed during performance.

5.3.2.2 VERIFY plastic overbag removed from drum OTP-LLW-WP-04.

5.3.2.3 VERIFY drum tipper lowered and tipper grab closed around drum OTP-LLW-WP-04.

5.3.2.4 VERIFY results of performance are acceptable.

TD Initials/Date: DL 5/14/97

5.3.3 PERFORM Section VII.D, "SAW WASTE DRUM CLAMP BAND", of operating procedure as follows:

5.3.3.1 REDLINE procedure as needed during performance.

✓ 5.3.3.2 VERIFY clamp band sawed, removed from drum OTP-LLW-WP-04, and placed on sorting table.

5.3.3.3 VERIFY results of performance are acceptable.

TD Initials/Date: DL 5/14/97

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

5.3.4 PERFORM Section VII.E, "DELID WASTE DRUM", of operating procedure as follows:

5.3.4.1 REDLINE procedure as needed during performance.

✓ 5.3.4.2 VERIFY delid fixture removes lid from drum OTP-LLW-WP-04, and returns to it's "raised/parked" position with the lid.

5.3.4.3 VERIFY results of performance are acceptable.

TD Initials/Date: DD 1 8/14/97

5.3.5 PERFORM Section VII.F, "EMPTY WASTE DRUM ONTO SORTING TABLE", of operating procedure as follows:

5.3.5.1 REDLINE procedure as needed during performance.

✓ 5.3.5.2 VERIFY tipper raises to dump contents of drum OTP-LLW-WP-04 onto sorting table, and returns to it's "lowered" position with the empty drum.

✓ 5.3.5.3 VERIFY DMSS0312 Parent PIN is OTP-LLW-WP-04, Sample = NO and Compliant? = NO.

5.3.5.4 VERIFY results of performance are acceptable.

TD Initials/Date: DD 1 8/14/97

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

5.3.6 PERFORM Section VII.G, "REMOVE NON-COMPLIANT PACKETS FROM WASTE", of operating procedure as follows:

5.3.6.1 REDLINE procedure as needed during performance.

✓ 5.3.6.2 IDENTIFY three non-compliant packages using NDE hard copy from receiving, DMS NDE comments and Packet NDE:

- 1) VIEW DMS NDE comments on DMSS0312
→ 2) PERFORM WRP1-OP-0706, PACKET NDE OPERATION in it's entirety on at least one non-compliant package.

5.3.6.3 VERIFY Packet bar code label OTP6-97-000004 is applied to the lead brick in two plastic bags wrapped with tape, the bar code is read, and the packet is placed on the transfer stand:

- 1) DISPLAY DMSS0312 LLW Non-Compliant Screen after the barcodes are read,
2) ENTER the following for PIN OTP6-97-000004:

Group: PB

Waste Description: LEAD BRICK

5.3.6.4 VERIFY Packet bar code label OTP6-97-000005 is applied to the bottle of solvent and bottle of oil wrapped together in cloth and tape, the bar code is read, and packet is placed on the transfer stand.

- 1) REFRESH DMSS0312 LLW Non-Compliant Screen after the barcodes are read,
2) ENTER the following for PIN OTP6-97-000005:

Group: LQ

Waste Description: BOTTLE OF SOLVENT AND
BOTTLE OF OIL

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

5.3.6.5 VERIFY Packet bar code label OTP6-97-000006 is applied to the bottle of acid, bar code is read, and packet is placed on transfer stand.

- 1) REFRESH DMSS0312 LLW Non-Compliant Screen after the barcodes are read,
- 2) ENTER the following for PIN OTP6-97-000007:

Group: LQ

Waste Description: BOTTLE OF ACID

5.3.6.6 UPDATE sorted drum data in DMS:

- 1) SELECT DMSS0312 "Physcomp" screen.
 - DELETE HAZARDOUS CONSTITUENTS record
 - CHANGE PLASTIC/POLYURATHANE volume percent to 30
 - CHANGE CLOTH/RAGS/NYLON volume percent to 70.
- 2) SELECT DMSS0312 "Chemcomp" screen.
 - DELETE all records.

5.3.6.7 VERIFY results of performance are acceptable.

TD Initials/Date: DL 1 8/14/97

5.3.7 PERFORM Section VII.H, "RETURN COMPLIANT WASTE TO WASTE DRUM", of operating procedure as follows:

5.3.7.1 REDLINE procedure as needed during performance.

5.3.7.2 VERIFY results of performance are acceptable.

TD Initials/Date: DL 1 8/14/97

*OTR 1:15
Waste to drum
Sort table and
performance*

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

*DD
Station
Drum Assembly
AT RELID POS
PJA*

5.3.8 PERFORM Section VII.I, "MOVE WASTE DRUM TO RELID POSITION", of operating procedure as follows:

5.3.8.1 REDLINE procedure as needed during performance.

5.3.8.2 VERIFY results of performance are acceptable.

TD Initials/Date: _____ / _____

5.3.9 PERFORM Section VII.J, "RELID WASTE DRUM", of operating procedure as follows:

5.3.9.1 REDLINE procedure as needed during performance.

5.3.9.2 VERIFY drum OTP-LLW-WP-04 is re-lidded with c-clips attached.

5.3.9.3 VERIFY results of performance are acceptable.

TD Initials/Date: DD / 8/14/97

5.3.10 PERFORM Section VII.K, "TRANSFER WASTE DRUM TO SUPERCOMPACTOR", of operating procedure as follows:

5.3.10.1 REDLINE procedure as needed during performance.

✓ 5.3.10.2 PERFORM appropriate Sections of WPRI-OP-0715 to ensure Supercompactor is in Automatic and ready to receive drums.

✓ 5.3.10.3 VERIFY drum OTP-LLW-WP-04 is delivered to Supercompactor and automatically compacted.

5.3.10.4 VERIFY results of performance are acceptable.

TD Initials/Date: DD / 8/16/97

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

5.4 REFERENCE procedure WRP1-OP-0716, LLW EXIT GLOVEBOX OPERATION:

5.4.1 PERFORM Section VII.C, "PUCK RECEIPT AND WEIGHT MEASUREMENT", of operating procedure as follows:

5.4.1.1 REDLINE procedure as needed during performance.

5.4.1.2 VERIFY puck barcode OTP004 is placed on drum OTP-LLW-WP-04 and scanned.

5.4.1.3 VERIFY puck OTP004 is lifted and weighed on the Exit Glovebox hoist.

5.4.1.4 VERIFY results of performance are acceptable.

TD Initials/Date: DD 12/15/97

5.4.2 PERFORM Section VII.D, "MOVE PUCK FROM RECEIPT TO LOAD OUT", of operating procedure as follows:

5.4.2.1 REDLINE procedure as needed during performance.

5.4.2.2 VERIFY puck OTP004 is loaded into overpack drum OTP-LLW-OD-02 at Exit port.

5.4.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: DD 12/15/97

N/A
NEOS
SENSOR
#2 Position - Hoist
does not illuminate
ETR
STORAGE
NOT DISPLAY
N/A
DUE
BME view
DD 12/15/97

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

5.4.3 PERFORM Section VII.G, "RECORD COMPACT DRUM (PUCK) DATA", of operating procedure as follows:

5.4.3.1 REDLINE procedure as needed during performance.

5.4.3.2 ENTER on DMSS0315, the following data for puck OTP004 when directed by the operating procedure:

- WASTE DESCRIPTION:
- PUCK HEIGHT:

5.4.3.3 VERIFY results of performance are acceptable.

TD Initials/Date: RL 5/15/97

5.4.4 PERFORM Section VII.D, "MOVE PUCK FROM STORAGE TO LOAD OUT", of operating procedure as follows:

5.4.4.1 REDLINE procedure as needed during performance.

5.4.4.2 VERIFY puck OTP002 is loaded into overpack drum OTP-LLW-OD-02 at Exit port.

5.4.4.3 VERIFY results of performance are acceptable.

TD Initials/Date: RL 5/15/97

5.4.5 PERFORM Section VII.G, "RECORD COMPACT DRUM (PUCK) DATA", of operating procedure as follows:

5.4.5.1 REDLINE procedure as needed during performance.

5.4.5.2 ENTER on DMSS0315, the following data for puck OTP002 when directed by the operating procedure:

- WASTE DESCRIPTION:
- PUCK HEIGHT:

5.4.5.3 VERIFY results of performance are acceptable.

TD Initials/Date: RL 5/15/97

CTR ✓ 28
WEIGHT DID
NOT TRANSFER
TO DMS SCREEN
RL 5/15/97

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

5.4.6 PERFORM Section VII.H, "REMOVE OVERPACK FROM GLOVEBOX", of operating procedure as follows:

5.4.6.1 REDLINE procedure as needed during performance.

5.4.6.2 ENTER on DMSS0315, the following data for puck OTP002 when directed by the operating procedure:

- WASTE DESCRIPTION: (field entry)
- FILLER TYPE: (field entry)
- FILLER TYPE: (field entry)

5.4.6.3 SELECT "SUM WASTE RECORDS" on DMSS0315 to sum the puck data.

5.4.6.4 VERIFY results of performance are acceptable.

TD Initials/Date: RD 1/8/97

5.5 REFERENCE procedure WRP1-OP-0714, LOW LEVEL WASTE (LLW) SORTING GLOVEBOX OPERATION:

5.5.1 PERFORM Section VII.L, "PLACE TRANSFER STAND IN RWM TRANSFER DRUM", of operating procedure as follows:

5.5.1.1 REDLINE procedure as needed during performance.

5.5.1.2 VERIFY transfer stand is placed in transfer drum OTP-LLWR-TD-021.

5.5.1.3 VERIFY results of performance are acceptable.

TD Initials/Date: RD 1/8/97

ATTACHMENT 8 - TEST PLAN, LLW GLOVEBOX AUTOMATIC TEST CASE 4

5.5.2 PERFORM Section VII.M, "REMOVE DRUM FROM RWM TRANSFER PORT (107-DO-07-105)", of operating procedure as follows:

5.5.2.1 REDLINE procedure as needed during performance.

5.5.2.2 VERIFY transfer drum OTP-LLWR-TD-02 is closed and removed from port.

5.5.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: al 10/6/97

5.6 REMOVE transfer drum OTP-LLWR-TD-02 manually from Lift Table LT-09-201F.

5.7 RUN DMS Report Script.

TD Initials/Date: D 15/4/97

OTR ✓ 31, 32, 33
DMS DATA
COCOA
DD
5/10/97

ATTACHMENT 9 - TEST PLAN, LLW GLOVEBOX RESTART

1.0 GENERAL DESCRIPTION

- 1.1 This test plan provides instructions for testing restart of the LLW Glovebox. These operations will be tested using procedures WRP1-OP-0702, Restart LLW Glovebox Operation, WRP1-OP-0713 "LLW Entry Glovebox Operation," and WRP1-OP-0714 "Low Level Waste (LLW) Sorting Glovebox Operation, thereby also performing the required procedure validation for sections performed. The sequence of events is as follows:
 - 1.1.1 85 gallon shipping overpack OTP-LLW-OD-05, with 55 gallon LLW drum OTP-LLW-WP-05 inside, is connected to the LLW glovebox entry port and drum OTP-LLW-WP-05 is lifted into the LLW Entry glovebox.
 - 1.1.2 Drum OTP-LLW-WP-05 is checked for external contamination.
 - 1.1.3 85 gallon drum OTP-LLW-OD-05 is closed and removed from the LLW Entry port and from lift table LT-09-202A.
 - 1.1.4 Empty 85 gallon drum OTP-LLW-OD-05 (from entry port) is placed on lift table LT-09-202C (LLW Exit).
 - 1.1.5 Drum OTP-LLW-OD-05 is connected to the LLW glovebox exit port and the port is opened.
 - 1.1.6 Drum OTP-LLW-WP-05 is lifted by the LLW entry glovebox hoist, lowered through transfer port, and placed on transfer car.
 - 1.1.7 Drum OTP-LLW-WP-05 is moved to the delidder and sawing of the clam-band is begun.
 - 1.1.8 Prior to completion of sawing the clamp band, the LLW Emergency Stop is pressed.
 - 1.1.9 The glovebox restart procedure is used to restore the glovebox components to operational status.
 - 1.1.10 The test is terminated and all equipment removed from the gloveboxes.

ATTACHMENT 9 - TEST PLAN, LLW GLOVEBOX RESTART

2.0 SAFETY

2.1 Reference OTP Section 8, SAFETY.

3.0 TOOLS, EQUIPMENT AND SUPPLIES

- Drum handling (manual) equipment or Pallet fork truck
- Spill Kit/Decontamination Equipment (oils/chemicals)
- Tape and rags
- Other equipment, material or protective clothing (as required)

4.0 TEST PREREQUISITES

4.1 VERIFY OTP Section 11.0, PREREQUISITES are complete.

4.2 SET initial conditions as follows:

4.2.1 55 gallon LLW drum OTP-LLW-WP-05, in shipping overpack
OTP-LLW-OD-05, is on lift table LT-09-202A.

4.2.2 The PCS man_op program has sent an AGVPCS AGVL message for
the AGV located at AGVLLWENTR (LT-09-202A) with drum
OTP-LLW-OD-05 (sets LCU conditions have been set for drum
OTP-LLW-OD-05 on lift table LT-09-202A).

4.2.3 Empty transfer drum OTP-LLWR-TD-05 is on lift table
LT-09-203A.

4.2.4 The PCS man_op program has sent an AGVPCS AGVL message for
the AGV located at AGVLLWRWX (LT-09-203A) with drum
OTP-LLWR-TD-05 (sets LCU conditions for drum OTP-LLWR-TD-05
on lift table LT-09-203A).

ATTACHMENT 9 - TEST PLAN, LLW GLOVEBOX RESTART

4.3 UPDATE PCS Tracking Table as follows:

4.3.1 Drum OTP-LLW-WP-05 in shipping overpack OTP-LLW-OD-05 at LT-09-202A.

4.3.2 Drum OTP-LLWR-TD-05 at LT-09-203A.

PCS TRACKING TABLE FOR LLW LIFT TABLES		
LIFT TABLE	Registers	
	PIN	Drum Present (=1)
LT-09-202A	N32: 35-41	N32: 46 bit 12
LT-09-203A	N32: 47-53	N32: 58 bit 12

4.4 TEST PREREQUISITES are complete and acceptable.

TD Initials/Date: RD 1/8/10/97

ATTACHMENT 9 - TEST PLAN, LLW GLOVEBOX RESTART

5.0 PROCEDURE

5.1 REFERENCE procedure WRP1-OP-0713, LLW ENTRY GLOVEBOX OPERATION:

5.1.1 PERFORM Section VII.A, "INITIALIZE SYSTEM", of operating procedure as follows:

5.1.1.1 REDLINE procedure as needed during performance.

5.1.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: TD 1 8/18/97

5.1.2 PERFORM Section VII.B, "DRUM ENTRY TO LLW GLOVEBOX", of operating procedure as follows:

5.1.2.1 REDLINE procedure as needed during performance.

5.1.2.2 VERIFY overpack drum OTP-LLW-OD-05 OPEN and inner drum OTP-LLW-WP-05 on hoist at "SWAB" position.

*TD 8/18/97
NOT PART
OF DMS
SETUP*

→ 5.1.2.3 VERIFY DMSS0311 indicates overpack drum OTP-LLW-OD-05 and inner drum OTP-LLW-WP-05 at glovebox with message "Sorting Required".

5.1.2.4 VERIFY results of performance are acceptable.

TD Initials/Date: TD 1 8/18/97

ATTACHMENT 9-- TEST PLAN, LLW GLOVEBOX RESTART

5.1.3 PERFORM Section VII.C, "CLOSE ENTRY PORT", of operating procedure as follows:

5.1.3.1 REDLINE procedure as needed during performance.

5.1.3.2 VERIFY ENTRY port is CLOSED, overpack drum OTP-LLW-OD-05 is lowered from port and checked for contamination.

5.1.3.3 SELECT "CONTAMIN. DRUM READY FOR PICKUP" when prompted by OIU.

5.1.3.4 VERIFY overpack drum OTP-LLW-OD-05 is removed from Lift Table LT-09-202A.

5.1.3.5 VERIFY results of performance are acceptable.

TD Initials/Date: DD 12/18/97

5.1.4 MOVE overpack drum OTP-LLW-OD-05 (manually) to AGV end of Lift Table LT-09-202C at LLW Exit Port.

TD Initials/Date: DD 12/18/97

5.1.5 Run PCS man op program to send AGVPCS AGVL message for AGV at AGVLLWEXIT (LT-09-202C) with drum OTP-LLW-OD-05 (Sets LCU conditions for drum OTP-LLW-OD-05 on lift table LT-09-202C.)

TD Initials/Date: 1

DD
5/18/97

NOT
REQUIRED.

ATTACHMENT 9 - TEST PLAN, LLW GLOVEBOX RESTART

5.2 REFERENCE procedure WRP1-OP-0716, LLW EXIT GLOVEBOX OPERATION:

5.2.1 PERFORM Section VII.A, "INITIALIZE SYSTEM", of operating procedure as follows:

5.2.1.1 REDLINE procedure as needed during performance.

5.2.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: DD / 8/18/97

5.2.2 PERFORM Section VII.B, "EXIT DRUM ACCESS TO LLW GLOVEBOX", of operating procedure as follows:

5.2.2.1 REDLINE procedure as needed during performance.

5.2.2.2 VERIFY overpack drum OTP-LLW-OD-05 connected to LLW Exit Port and OPEN.

5.2.2.3 VERIFY results of performance are acceptable.

TD Initials/Date: DD / 8/18/97

5.3 REFERENCE procedure WRP1-OP-0713, LLW ENTRY GLOVEBOX OPERATION:

5.3.1 PERFORM Section VII.D, "MOVE DRUM TO DRUM TRANSFER CAR", of operating procedure as follows:

5.3.1.1 REDLINE procedure as needed during performance.

5.3.1.2 VERIFY drum OTP-LLW-WP-05 is positioned over transfer port 107-DO-07-102 and lowered onto drum transfer car.

5.3.1.3 VERIFY results of performance are acceptable.

TD Initials/Date: DD / 8/18/97

DD 8/18/97
ETR ✓ 23
"OFFER PORT
OPENING..."
MESSAGE BEING
SELECTING
OPEN.

ATTACHMENT 9 - TEST PLAN, LLW GLOVEBOX RESTART

5.4 REFERENCE procedure WRP1-OP-0714, LOW LEVEL WASTE (LLW) SORTING GLOVEBOX OPERATION:

5.4.1 PERFORM Section VII.B, "TRANSFER WASTE DRUM TO DELID POSITION", of operating procedure as follows:

5.4.1.1 REDLINE procedure as needed during performance.

5.4.1.2 VERIFY drum OTP-LLW-WP-05 at "DELID" position.

5.4.1.3 VERIFY results of performance are acceptable.

TD Initials/Date: DD 15/10/97

5.4.2 PERFORM Section VII.C, "GRIP WASTE DRUM WITH DRUM TIPPER (107-DH-07-103)", of operating procedure as follows:

5.4.2.1 REDLINE procedure as needed during performance.

NO PLASTIC BAG

5.4.2.2 VERIFY plastic overbag removed from drum OTP-LLW-WP-05.

5.4.2.3 VERIFY drum tipper lowered and tipper grab closed around drum OTP-LLW-WP-05.

5.4.2.4 VERIFY results of performance are acceptable.

TD Initials/Date: DD 15/10/97

NOTE

The exact point at which EMERGENCY STOP is pressed is not critical, so long as the saw has not completed the cutting sequence.

ATTACHMENT 9 - TEST PLAN, LLW GLOVEBOX RESTART

5.4.3 PERFORM Section VII.D, "SAW WASTE DRUM CLAMP BAND", of operating procedure as follows:

5.4.3.1 REDLINE procedure as needed during performance..

5.4.3.2 WHEN the saw is cutting the clamp band,
THEN, PRESS EMERGENCY STOP switch (107-HS-07-315)
on DMS console (107-TE-12-103).

TD Initials/Date: JD 1 8/14/97

5.4.3.3 VERIFY LLW Glovebox operations STOP.

TD Initials/Date: JD 1 8/14/97

5.5 REFERENCE procedure WRP1-OP-0702, Restart LLW Glovebox Operation:

5.5.1 PERFORM Section VII.A, "DETERMINE GLOVEBOX EQUIPMENT STATUS", of operating procedure as follows:

5.5.1.1 REDLINE procedure as needed during performance.

5.5.1.2 VERIFY results of performance are acceptable.

TD Initials/Date: JD 1 8/14/97

5.5.2 PERFORM Section VII.B, "RETURN ENTRY GLOVEBOX TO OPERATION", of operating procedure as follows:

5.5.2.1 REDLINE procedure as needed during performance.

5.5.2.2 VERIFY results of performance are acceptable.

TD Initials/Date: JD 1 8/14/97

ATTACHMENT 9 - TEST PLAN, LLW GLOVEBOX RESTART

5.5.3 PERFORM Section VII.C, "RETURN SORTING GLOVEBOX TO OPERATION", of operating procedure as follows:

5.5.3.1 REDLINE procedure as needed during performance.

5.5.3.2 VERIFY results of performance are acceptable.

TD Initials/Date: JD / 5/12/97

5.5.4 PERFORM Section VII.D, "RETURN EXIT GLOVEBOX TO OPERATION", of operating procedure as follows:

5.5.4.1 REDLINE procedure as needed during performance.

5.5.4.2 VERIFY results of performance are acceptable.

TD Initials/Date: JD / 5/12/97

5.6 PERFORM sections of the following procedures as required to remove drums from glovebox and ports:

WRP1-OP-0713, LLW Entry Glovebox Operation
WRP1-OP-0714, LLW Sorting Glovebox Operation
WRP1-OP-0715, LLW Supercompactor Operation
WRP1-OP-0716, LLW Exit Glovebox Operation
WRP1-OP-0719, LLW Gloveboxes Manual Operation

5.6.1 VERIFY results of performance are acceptable.

TD Initials/Date: JD / 5/12/97

5.7 REMOVE all drums (manually) from LLW glovebox lift tables.

TD Initials/Date: JD / 5/12/97

5.8 INFORM Operations Management testing is complete.

TD Initials/Date: JD / 5/12/97

Author

J. J. Shaffer III
Print Name/Signature

APPROVAL DESIGNATOR SO

PROCEDURE APPROVAL SIGNATURES

RJ Bortner 2/11/98
WRAP I Operation Manager Date

KJ Leist 2/17/98
WRAP I O&G Engineer Date

JR Weident 2-9-98
WRAP I Engineering Manager Date

RJ Koll 2/11/98
WRAP I Industrial Safety Date

WR Thackaberry 2-10-98
WRAP I Quality Assurance Date

HC Boynton 2/12/98
WRAP I Environmental
Compliance Officer Date

Original signatures on file
with WRAP 1 Records Management Specialist

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 251

ATP_YN : N

Test : HNF-SD-W026-OTP-015

Step : A4,5.1,A5,5.2.1 Equipment Tag #: CR-07-101C

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Leist

Exception Description :

Hoist could not be parked at "load" position due to mechanical interference with manipulator.

Exception Disposition :

Exception Status :

9-3-97 Duplicate of #148. Closed.

Exception Closed By : Leist

Date : 9/5/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 252

ATP_YN : N

SW

Test : HNF-SD-W026-OTP-015

Step : See Below

Equipment Tag #: TC-07-101

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Lane

Exception Description :

Steps A4, 5.5.15, 5.1.19

Transfer car position indication on OIU-103B does not correspond to proper location of car except for "entry."

Exception Disposition :

Exception Status :

9-3-97 MP Lane to fix so that messaging triggered by location of car, retest. 9-25-97 - Code modifications completed, waiting on opportunity to test. 12-26-97: Retested 12-20-97. Satisfactory.
Closed.

Exception Closed By :

Michael P. J. [Signature]

Date : 12-26-97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

N/A [Signature]

Date: _____

WMH Representative:

Date: 12-26-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

N/A [Signature]

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **253**

ATP_YN : N

Test : HNF-SD-W026-OTP-015

Step : A4, 5.1.16 Equipment Tag #: RT-07-101

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Leist

Exception Description :

After performing saw operation to remove drum lid, a tool is needed to grab the ring.

Exception Disposition :

Exception Status :

9-3-97 Duplicate of 220. Closed.

Exception Closed By : Leist

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **254**

ATP_YN : N

Test : HNF-SD-W026-OTP-015

Step : See Below Equipment Tag #: DH-07-103

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Warmenhoven

Exception Description :

Steps A4, 5.1.20, A5, 5.6.2, A6, 5.4.2

The pressure switch which indicates proper tipper grab pressure does not function. Drum is loose in grab arms.

Exception Disposition :

Exception Status :

9-3-97 Duplicate of 250. Closed.

Exception Closed By : Leist

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 255

ATP_YN : N

SW

Test : HNF-SD-W026-OTP-015

Step : A4, 5.1.25

Equipment Tag #: CR-07-101D

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Lane

Exception Description :

OIU-103C would indicate "system initialized" with the hoist not at the compact receipt position. The subscreen did indicate the hoist out of position (red).

Exception Disposition :

Exception Status :

9-3-97 MP Lane to investigate, resolve. 9-20-97 - Code examined. Hoist must be at compact receipt, with all three hoist position switches activated, before system is initialized. Once system is initialized, it remains so until switched back to maintenance mode. OIU also examined and OIU diagnostics screen accurately reflects hoist status. This exception is therefore closed.

Exception Closed By : Lane

M. Lane

Date : 9/20/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

N/A
W. R. V. P.

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

N/A

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 256

ATP_YN : N

SW

Test : HNF-SD-W026-OTP-015

Step : A4, 5.1.30

Equipment Tag #: TC-07-101/M1

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Lane

Exception Description :

When attempting transfer of a drum to the compactor, the transfer car would not engage or start

Exception Disposition :

Exception Status :

9-3-97 MP Lane to investigate, resolve. 11-24-97 - Ready to test, 12-26-97. Retested 12-23-97. Transfer effected in semi-auto mode. Test exception closed.

Exception Closed By :

Michael P. Doe

Date : 12-26-97

APPROVAL OF RESOLUTION

Contractor Representative:

(Only as needed)

WMH Representative:

Additional Approval:

(Only as needed)

FDNW Representative:

Date: _____

Date: 12-26-97

Date: _____

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **257**

ATP_YN : N

SW

Test : HNF-SD-W026-106

Step : A4, 5.1.31

Equipment Tag #: DO-07-101

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Lane

Exception Description :

The "close port" sequence did not complete. The lift table did not lower to close the port.

Exception Disposition :

Exception Status :

9-7-97 MP Lane to investigate. 11-24-97 - Ready to test. 12-26-97 - Retested
Satisfactory 12-20-97. Closed.

Exception Closed By :

Michael P. Jones

Date : 12-20-97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

WMH Representative:

Additional Approval:
(Only as needed)

FDNW Representative:

Date: _____

Date: 12-26-97

Date: _____

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 258

ATP_YN : N

SW

Test : HNF-SD-W026-OTP-015

Step : A5, 5.2.2

Equipment Tag #: DO-07-105

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : SII

Responsible Individual: Lane

Exception Description :

Port would not open in auto mode.

Exception Disposition :

Retested Port - operation sat. No reason determined for fail to open

Exception Status :

Closed

Exception Closed By : Lane

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 259

ATP_YN : N

SW

Test : HNF-SD-W026-015

Step : See Below

Equipment Tag #: DO-07-101

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Lane

Exception Description :

Steps A5, 5.3.2, A6, 5.1.2, A8, 5.2.2

Lid in position sensor activated too soon and prevented lift table from opening port - sequence failed.

Exception Disposition :

Exception Status :

9-3-97 Duplicate of #54. Closed.

Exception Closed By : Lane

Michael R. Lane

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

WMH Representative:

Additional Approval:
(Only as needed)

FDNW Representative:

Date: _____

Date: 12-10-97

Date: _____

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 260

ATP_YN : N

Test : HNF-SD-W026-OTP-015

Step : See Below Equipment Tag #: DO-07-101

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Leist

Exception Description :

Steps A5,5.3.3, A6, 5.1.2

The overpack drum lid did not detach from the port when the drum started the exit sequence.

Exception Disposition :

Exception Status :

12/17/97 New retention design implemented. System to be tested and ver. Fixed.

Exception Closed By :

Date : 12/31/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

Date: _____

WMH Representative:

Date: 12-31-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 261

ATP_YN : N

SW

Test : HNF-SD-W026-OTP-015

Step : A5, 5.3.3

Equipment Tag #: DO-07-101

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Lane

Exception Description :

The lift table did not lower enough to close the port - sequence failed.

Exception Disposition :

Exception Status :

9-3-97 Duplicate of #257. Closed.

Exception Closed By : Lane

Michael P. Lane

Date : 9/5/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

John R. Vane

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

W/A

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **262**

ATP_YN : N

SW

Test : HNF-SD-W026-OTP-015

Step : A5, 5.3.3

Equipment Tag #: DO-07-101

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Lane

Exception Description :

After the exit sequence, message "drum pickup in progress" was not displayed.

Exception Disposition :

Exception Status :

9-3-97 MP Lane to review, retest. 9-25-97 - Code examined. Message code present. The following conditions; 1) Lift table at AGV height, 2) "Drum at End of Conveyor" switch activated and 3) Not "Notify AGV of Pickup" must be met before message will be displayed. Retested - message displayed for both clean, contaminated drums. Closed.

Exception Closed By : Lane

Michael P. Jae

Date : 9/25/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

WMH Representative:

Additional Approval:
(Only as needed)

FDNW Representative:

Date: _____

Date: 12-10-97

Date: _____

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **263**

ATP_YN : N

SW

Test : HNF-SD-W025-OTP-015

Step : A5, 5.6.1

Equipment Tag #: TC-07-101

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : SII

Responsible Individual: Lane

Exception Description :

When the transfer car was sent to the delid position from the entry position, the display momentarily said "transfer car moving to delid position," but then said "transfer car at entry position" until the car reached the delid position.

Exception Disposition :

Exception Status :

11-24-97 Ready to test. mfg. 12-26-97 Re-tested satis factory
12-20-97. closed.

Exception Closed By :

Michael Price

Date : 12-26-97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

10 R W

Date: _____

WMH Representative:

Date: 12-26-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

2/1

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 264

ATP_YN : N

SW

Test : HNF-SD-W026-OTP-015

Step : A5,5.6.3

Equipment Tag #: OIU-103B

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : SII

Responsible Individual: Lane

Exception Description :

At completion of Saw sequence, message "saw sequence complete" missing.

Exception Disposition :

Exception Status :

9-3-97 Fixed. Closed.

Exception Closed By :

Lane

Michael Doe

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative:

(Only as needed)

WMH Representative:

Additional Approval:

(Only as needed)

FDNW Representative:

Date: _____

Date: 12-10-97

Date: _____

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 265

ATP_YN : N

Test : HNF-SD-W026-OTP-015

Step : See Below Equipment Tag #: ST-07-101

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Exception :

Revision :

Date:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Warmenhoven

Exception Description :

Steps A5, 5.6.5, A8, 5.3.7

When extending sorting table, table stopped at tip position because table locks position infor not available.

Exception Disposition :

Exception Status :

9-3-97 Duplicate of # 141. Closed.

Exception Closed By : Leist

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 266

ATP_YN : N

Test : HNF-SD-W026-OTP-015

Step : A5, 5.81

Equipment Tag #: ST-07-101

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Warmenhoven

Exception Description :

Sort table "failed to lock" on extend to tip command. Lock position info not available.

Exception Disposition :

Exception Status :

9-3-97 Duplicate of # 141. Closed.

Exception Closed By : Leist

K. Leist

12/17/97

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

L. R. W.

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

n/p

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **267**

ATP_YN : N

SW

Test : HNF-SD-W026-OTP-015

Step : A5, 5.8.2

Equipment Tag #: OIU-103B

Exception :

Revision :

Date :

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Lane

Exception Description :

On the transfer car menu, the "reld" position should be renamed since reld not takes place at delid position.
Possibly "c-clip/bar off."

Exception Disposition :

Exception Status :

9-3-97 Changed to "Debug/Crimp".

Exception Closed By :

Lane

Michael P. Jones

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

W. R. W. D.

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

W. R. W. D.

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 268

ATP_YN : N

SW

Test : HNF-SD_W026-OTP-015

Step : A5, 5.8.4

Equipment Tag #: TC-07-101

Exception :

Revision :

Date :

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Lane

Exception Description :

After transfer to the super compactor, the transfer car conveyor motor did not stop or disengage.

Exception Disposition :

Exception Status :

9-3-97 MP Lane to investigate, resolve.

11-24-97 Resolved to test, mpf 12-28-97
Retested 5/15 Factor y 12-23-97. Closed.

Exception Closed By :

Michael P. Lee

Date : 12-26-97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

[Signature]

Date: _____

WMH Representative:

Date: 12-26-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

[Signature]

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 269

ATP_YN : N

Test : HNF-SD-W026-OTP-015

Step : See Below Equipment Tag #: DH-07-101

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Exception :

Revision :

Date:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Leist

Exception Description :

A6, 5.1.2, A8, 5.3.3

Drum lifter closed limit switch needs adjustment. The closed light on the control pendant did not illuminate.

Exception Disposition :

Exception Status :

WP-97-502 Item #59.

12-26-97 - Retested 12-20-97 satisfactory. Closed.

Exception Closed By :

M. Leist

Date : 12-26-97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

WMH Representative:

Additional Approval:
(Only as needed)

FDNW Representative:

Date: _____

Date: 12-26-97

Date: _____

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 270

ATP_YN : N

Test : HNF-SD-W025-OTP-015

Step : See Below Equipment Tag #: ND-07-101

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Humphrys

Exception Description :

A6, 5.4.6, A8, 3.6

It was not possible to perform the required portion of OP-706 (packet NDE operation) because the x-ray was unavailable (tray missing).

Exception Disposition :

Exception Status :

9-3-97 Install procured tray, test.

PACKET X-RAT ATP WAS PERFORMED 11/26/96.

Exception Closed By :

Hollingsworth A. Humphrys

Date : 12/31/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

WMH Representative:

Additional Approval:
(Only as needed)

FDNW Representative:

Date: _____

Date: 12-31-97

Date: _____

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 271

ATP_YN : N

Test : HNF-SD-W026-OTP-015

Step : A6, 5.6.2

Equipment Tag #: LT-09-203A

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Jordal

Exception Description :

The lift table failed to lower during the exit sequence of the RWM port. Cause was servo controller overheated and tripped out (code 22 indicator).

Exception Disposition :

Exception Status :

12-26-97. Servo motor reprogrammed with primary sequence acceleration and velocity reduced from 7 to 5. Retested satisfactory closed.

Exception Closed By :

Michael D. Jone

Date : 12-26-97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

W. R. W.

Date: _____

WMH Representative:

W. R. W.

Date: 12-26-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

W. R. W.

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 272

ATP_YN : N

Test : HNF-SD-W026-OTP-015

Step : A7, 5.2.2 Equipment Tag #: RT-07-101

Exception :

Revision :

Date :

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Leist

Exception Description :

FAILED
The "lower with grab closed" sequence, because the drum lid/delid fixture had moved approximately 6" from the parked position.

Exception Disposition :

Exception Status :

9-3-97 Test error. Closed.

Exception Closed By : Leist

K. Leist 12/17/97

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative: *W/D*

Date: _____

WMH Representative: *W. R. V. L.*

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative: *W/D*

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 273

ATP_YN : N

SW

Test : HNF-SD-W026-OTP-015

Step : A9, 5.3.1

Equipment Tag #: DO-07-101

Exception :

Revision :

Date :

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : SII

Responsible Individual: Lane

Exception Description :

When opening the drum transfer port, message "transfer port opening..." was displayed before the "open port" selection was pressed.

Exception Disposition :

Exception Status :

9-3-97 Test error - Leftover message. Closed.

Exception Closed By : Lane

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

WMH Representative:

Additional Approval:
(Only as needed)

FDNW Representative:

Date: _____

Date: 12-10-97

Date: _____

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **274**

ATP_YN : N

DMS

Test : HNF-SD-W026-OTP-015

Step : Att 5, 5.93

Equipment Tag #: DMS Software

Exception :

Revision :

Date:

Specification Section : DMS

Test Witness/Author : Rosnick

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : BDM

Responsible Individual: Weidert

Exception Description :

Spec. is WHC-SD-W026-SD-001

Screen DMSS0315. The default puck height was not displayed. This was due to WRAP_FIELD_NAME being "DEFAULT_PCK_HGHT" in stead of "DEFAULT_PCK_HGT."

Exception Disposition :

Look-up table updated.

Exception Status :

9-18-97 Ready to test.

Look-up data corrected.

Exception Closed By :

C. E. Ransil

Date : *12/31/97*

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

WMH Representative:

Additional Approval:
(Only as needed)

FDNW Representative:

Date: _____

Date: *12-31-97*

Date: _____

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **275**

ATP_YN : N

SW

Test : HNF-SD-W026-OTP-015

Step : A6, 5.4.5

Equipment Tag #: Sensor ZS-331

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : SII

Responsible Individual: Lane

Exception Description :

DMSS012 display pin OTP-LLW-WR-01 when OTP-CCW-WR-02 was actually on sort table. Senso did not register drum being loaded on transfer

Exception Disposition :

Software error was found and corrected.

Exception Status :

Retested SAT.

Exception Closed By : Dunlap

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

WMH Representative:

Additional Approval:
(Only as needed)

FDNW Representative:

Date: _____

Date: 12-10-97

Date: _____

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 276

ATP_YN : N

DMS

Exception : 26

Test : HNF-SD-W026-OTP-015

Revision :

Step : See Below Equipment Tag #: DMS Software

Date:

Specification Section : DMS

Test Witness/Author : Rosnick

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : BDM

Responsible Individual: Weldert

Exception Description :

10-1-97 - Prior information incorrect, see #233. Correct description below:

Step Att. 8, 5.2.2, 5, 5.3.2, Spec. WHC-SD-W026-SD-001.

DMSCOM: If multiple location messages are sent by the PCS with the same drum at LLW-Entry, the DMS does not recognize the inner drum PIN, since the container relationship code has already been deleted.

Exception Disposition :

Writing software correction.

Exception Status :

9-18-97 Ready to test.

Exception Closed By :

C R Rosnick

Date : 10/2/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

N/A

Date: _____

WMH Representative:

John R. Ward

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

N/A

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **277**

ATP_YN : N

DMS

Exception : 27

Test : See Below

Revision :

Step : Att.8, 5.3.6

Equipment Tag #: DMS Software

Date:

Specification Section : DMS

Test Witness/Author : Rosnick

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : BDM

Responsible Individual: Weidert

Exception Description :

Test - HNF-SD-W026-OTP-015(LLW)

Spec. - WHC-SD-W026-SD-001

Screen DMSS0312. Pop-up "E532 No NDE comments records for this PIN" was displayed for OTP-LLW-WP-01 even though there were NDE records in the database.

Exception Disposition :

Waiting for software correction.

Exception Status :

9-18-97 Ready to test.

Exception Closed By :

Scott Anderson

Date : 12/31/97

APPROVAL OF RESOLUTION

Contractor Representative: _____
(Only as needed)

Date: _____

WMH Representative: _____

Date: 12-31-97

Additional Approval: _____
(Only as needed)

Date: _____

FDNW Representative: _____

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 278

ATP_YN : N

SW

Test : HNF-SD-W026-OTP-015

Step : A8, 8.4.4 Equipment Tag #: PCS

Exception :

Revision :

Date:

Specification Section : 13462

Test Witness/Author : Dunlap

Test Operator:

Responsible Company: WMH

Responsible Subcontractor :

Responsible Individual: Lane

Exception Description :

Puck weight did not transfer to DMSS015 screen when puck moved to loadout position.

Exception Disposition :

Exception Status :

9-3-97 Fixed, retested satisfactory.

Exception Closed By : Lane

Date : 9/3/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 279

ATP_YN : N

DMS

Exception : 29

Test : See Below

Revision :

Step : Att.5, 5.7.3 Equipment Tag #: DMS Software

Date:

Specification Section : DMS

Test Witness/Author : Rosnick

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : BDM

Responsible Individual: Weident

Exception Description :

Test - HNF-SD-W026-OTP-015 (LLW)

Spec. - WHC-SD-W026-SD-001

Screen DMSS0501. When the sample bottle is scanned and the wrong drum is at the sorting table, the error is reported, but it is not possible to process the next sample message until the erroneous data is committed.

Exception Disposition :

Waiting for software correction.

Exception Status :

9-18-97 Ready to test.

Tested satisfactory

Exception Closed By :

CR Rosnick

Date : 11/17/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

W/A
LD R Weident

Date: _____

WMH Representative:

LD R Weident

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

W/A

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 280

ATP_YN : N

DMS

Exception : 30

Test : See Below

Revision :

Step : Att.5, 5.6.5 Equipment Tag #: DMS Software

Date:

Specification Section : DMS

Test Witness/Author : Rosnick

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : BDM

Responsible Individual: Weidert

Exception Description :

Test - HNF-SD-W026-OTP-015 (LLW)

Spec. - WHC-SD-W026-001

Screen DMSS0311. Drum OTP-LLW-WP-01 was still shown on DMSS0311 as being at LLW Entry after the drum was shown on DMSS0312 as being at LLW Sort.

Exception Disposition :

Waiting for software correction.

Exception Status :

9-18-97 Ready to test.

Tested OK

Exception Closed By :

C. G. Raniel

Date : 10/2/97

APPROVAL OF RESOLUTION

Contractor Representative:

(Only as needed)

N/A

Date: _____

WMH Representative:

L. R. W. D.

Date: 12-10-97

Additional Approval:

(Only as needed)

Date: _____

FDNW Representative:

N/A

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **281**

ATP_YN : N

DMS

Exception : 31

Test : HNF-SD-W026-OTP

Revision :

Step : Att.8, 5.7

Equipment Tag #: DMS Software

Date:

Specification Section : DMS

Test Witness/Author : Rosnick

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : BDM

Responsible Individual: Weldert

Exception Description :

Spec. - WHC-SD-W026-SD-001

DMS Screen DMSS0312. When a11 CHEMCOMP records for OTP-LLW-WP-02 were deleted the HDET record was not deleted and the CON_PWTYP_CD was not changed to "R." For OTP-LLW-WP-04, the HDET record was deleted but the CON_PWTYP_CD was not changed. See SDD, Appendix F, 3.1.3.1, UP2.

Exception Disposition :

Waiting for software correction.

Exception Status :

9-18-97 Ready to test.

Tested OK

Exception Closed By :

ER Rand

Date : *10/2/97*

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

N/A
LR Weld

Date: _____

WMH Representative:

Date: *12-10-97*

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

N/A

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 282

ATP_YN : N

DMS

Exception : 32

Test : See Below

Revision :

Step : Att. 8, 5.7

Equipment Tag #: DMS Software

Date:

Specification Section : DMS

Test Witness/Author : Rosnick

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : BDM

Responsible Individual: Weident

Exception Description :

Test - HNF-SD-W026-OTP-015 (LLW)

Spec. - WHC-SD-W026-SD-001

DMSCOM. At LLW Entry the CONEXT_USE_CD for the waste (inner) drum is set to "WV." The use code should be left "WP."

Exception Disposition :

Waiting for software correction.

Exception Status :

9-18-97 Ready to test.

Tested OK

Exception Closed By :

C. J. Rana

Date : 10/2/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

W. A.
L. R. W. D.

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

W. A.

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **283**

ATP_YN : N

DMS

Exception : 33

Test : See Below

Revision :

Step : Att.8, 5.7

Equipment Tag #: DMS Software

Date:

Specification Section : DMS

Test Witness/Author : Rosnick

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : BDM

Responsible Individual: Weident

Exception Description :

Test - HNF-SD-W026-OTP-015 (LLW)

Spec. - WHC-SD-W026-SD-001

DMS Screen DMSS0315. The "Sum Waste Records" did not create any NDAISO records.

Exception Disposition :

Waiting for software correction.

Exception Status :

Software corrected and tested

Exception Closed By :

C K Ramlal

Date : *11/17/97*

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

N/A
John R. Weident

Date: _____

WMH Representative:

Date: *12-10-97*

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

N/A

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: 284

ATP_YN : N

DMS

Test : HNF-SD-W026-OTP-015

Step : Att.

Equipment Tag #: DMS Software

Exception :

Revision :

Date:

Specification Section : DMS

Test Witness/Author : Rosnick

Test Operator:

Responsible Company: WMH

Responsible Subcontractor : BDM

Responsible Individual: Weidert

Exception Description :

Spec. - WHC-SD-W026-SD-001

DMSCOM. The CON_PKG_STATUS for the puck records is "T." The status should be the same as the original drum, "R."

Exception Disposition :

Corrected prior to formal test and verified in dry run. DID NOT OCCUR DURING LLW-OTP TESTING.

Exception Status :

Closed.

Exception Closed By : Dunlap

Date : 8/20/97

APPROVAL OF RESOLUTION

Contractor Representative: *N/A*

Date: _____

WMH Representative: *J. R. Weidert*

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative: *N/A*

Date: _____

WRAP ACCEPTANCE TEST PROCEDURE EXCEPTION LOG

Tracking #: **285**

ATP_YN : N

DMS

Test : See Below

Step : Att. 5, 5.6.6

Equipment Tag #: DMS Software

Exception :

Revision :

Date :

Specification Section : DMS

Test Witness/Author : Rosnick

Test Operator :

Responsible Company: WMH

Responsible Subcontractor : BDM

Responsible Individual: Weident

Exception Description :

Test - HNF-SD-W026-OTP-015

DMS Screen DMSS0504, Analysis Request. If the [Add Sample] button is selected before the data for the current request is committed, the user is asked if they want to commit the data. If "no" or "cancel" is selected, the original data is still displayed but the sample number is incremented.

Exception Disposition :

Corrected prior to formal test and verified in dry run. DID NOT OCCUR DURING LLW-OTP TESTING.

Exception Status :

Closed.

Exception Closed By : Dunlap

Date : 8/20/97

APPROVAL OF RESOLUTION

Contractor Representative:
(Only as needed)

Date: _____

WMH Representative:

Date: 12-10-97

Additional Approval:
(Only as needed)

Date: _____

FDNW Representative:

Date: _____

LLW GLOVEBOX OTP RETEST TO CLEAR DMS EXCEPTIONS 9/29/97

ETRs To Be Cleared

- #274 Default puck height is not set on LLW Exit (315) screen.
- #276 Rescanning of drum at LLW entry results in erroneous processing.
- #277 NDE comments not displayed on LLW Sort (312) pop-up.
- (#279) Cannot process next sample bottle on 501 screen if wrong bottle is scanned. *Pop-up FRN-40657*
- #280 Drum shown on LLW Entry (311) screen after drum is shown on LLW Sort (312) screen.
- #281 When all CHEMCOMP records are deleted on LLW Sort (312) CHEMCOMP pop-up, the HDET record should be deleted and CON_PWTYP_CD should be changed from 'M' to 'R'.
- #282 At LLW ENTRY DMSCOM should not change CONEXT_USE_CD for the inner drum from 'R' to 'W'.
- (#283) NDAISO records are not created for the puck when records are summed by the LLW Exit (315) screen.

Test Steps

1. Run WRESTORE to load database file BASE_970820.
 2. Run script otp_1ul.sql.
 3. Run PCS Simulator with data file 1lw1.pcs.
 4. After 6th message request sample 1 with 3 analysis.
 5. After 8th message commit sample data for bottles 1 & 2.
 6. Process remaining messages.
 7. Run PCS Simulator with data file 1lw2.pcs.
 8. After 4th message request sample 2 with 1 analysis.
 9. Print drum barcode label OTP-LLW-OD-03 and sample bottle labels 97-00001-03L and 97-00002-01L.
 10. Shut down simulator and start DMSCOM.
 - ✓ 11. On LLW Exit (315) screen specify OTP-LLW-OD-01 and verify puck height is set to default (ETR #274). *Default 21. New value .5 entered*
 - X 12. On LLW Exit (315) screen Sum Waste Records and verify NDAISO records are created for the puck (ETR 283).
 - ✓ 13. On LLW Sort (312) screen verify NDE comments are displayed on NDE pop-up screen for OTP-LLW-WP-02 (ETR #277).
 - ✓ 14. Scan bottle labels 97-00001-03L and 97-00002-01L and verify data can be entered on the Sample (501) screen for bottle 97-00002-01L after the error message is cleared for bottle 97-00001-03L (ETR #279). *Temp entered as 22.*
 - ✓ 15. Delete the CHEMCOMP records on LLW Sort (312) screen CHEMCOMP pop-up screen and verify the HDET record has been deleted and CON_PWTYP_CD = 'R' for the puck (ETR #281).
 - ✓ 16. On the LLW Entry (311) screen verify there is no drum at entry (#280).
 - ✓ 17. Perform OTP-LLW-OD-03 barcode scan sequence twice at LLW_ENTRY and verify second message was not processed (ETR #276).
 - ✓ 18. Verify CONEXT USE CD for OTP-LLW-WP-03 was not changed when the barcode was scanned at LLW_ENTRY (ETR #282).
 19. Run query script otpq_1lw and print database listing.
- script run before scan at LLW_ENTRY*

Test
step

LLW OTP Run 9/29/97

11w1.pcs PCS SIMULATOR DATA FILE FOR LLW GLOVEBOX OTP CASE 1

4 PCSDMS~PPL~LLW PP~OTP6-97-300001~
PCSDMS~CL~LLW RWPRT~1~OTP-LLWR-TD-01~
PCSDMS~CL~LLW ENTRY~1~OTP-LLW-OD-01~
PCSDMS~DCS~LLW ENTRY~OTP-LLW-OD-01~F~
PCSDMS~CL~LLW EXIT~1~OTP-LLW-OD-01~
PCSDMS~CL~LLW SORT~1~OTP-LLW-WP-01~
5 PCSDMS~SPDP~LLW SORT~97-00001-01L~OTP-LLW-WP-01~
PCSDMS~SPDP~LLW SORT~97-00001-02L~OTP-LLW-WP-01~
PCSDMS~SPP~LLW SORT~97-00001-01L~OTP6-97-300001~
PCSDMS~SPP~LLW SORT~97-00001-02L~OTP6-97-300001~
6 PCSDMS~PPTP~LLW PP~OTP6-97-300001~OTP6-97-400001~
PCSDMS~CL~LLW CMPCT~1~OTP-LLW-WP-01~
PCSDMS~CL~LLW PUCK~1~OTPO01~
PCSDMS~CLW~LLW PUCK~1~OTPO01~150~
PCSDMS~POPD~LLW_EXIT~OTPO01~OTP-LLW-OD-01~

Enter sample request

commit sample data

11w2.pcs PCS SIMULATOR DATA FILE FOR LLW GLOVEBOX OTP CASE 2

8 PCSDMS~CL~LLW ENTRY~1~OTP-LLW-OD-02~
PCSDMS~DCS~LLW ENTRY~OTP-LLW-OD-02~F~
PCSDMS~CL~LLW EXIT~1~OTP-LLW-OD-02~
PCSDMS~CL~LLW SORT~1~OTP-LLW-WP-02~
PCSDMS~RWPP~LLW SORT~OTP6-97-000001~OTP-LLW-WP-02~
PCSDMS~RWPT~LLW SORT~OTP6-97-000001~OTP-LLWR-TD-01~
PCSDMS~RWPP~LLW SORT~OTP6-97-000002~OTP-LLW-WP-02~
PCSDMS~RWPT~LLW SORT~OTP6-97-000002~OTP-LLWR-TD-01~
PCSDMS~RWPP~LLW SORT~OTP6-97-000003~OTP-LLW-WP-02~
PCSDMS~RWPT~LLW SORT~OTP6-97-000003~OTP-LLWR-TD-01~
PCSDMS~CL~LLW CMPCT~1~OTP-LLW-WP-02~
PCSDMS~CL~LLW PUCK~1~OTPO02~
PCSDMS~CLW~LLW PUCK~1~OTPO02~160~
PCSDMS~CL~LLW_STORE1~1~OTPO02~

Enter sample request

11w3.pcs PCS SIMULATOR DATA FILE FOR LLW GLOVEBOX OTP CASE 3

PCSDMS~CL~LLW ENTRY~1~OTP-LLW-OD-03~
PCSDMS~DCS~LLW ENTRY~OTP-LLW-OD-03~F~
PCSDMS~CL~LLW CMPCT~1~OTP-LLW-WP-03~
PCSDMS~CL~LLW PUCK~1~OTPO03~
PCSDMS~CLW~LLW PUCK~1~OTPO03~150~
PCSDMS~POPD~LLW_EXIT~OTPO03~OTP-LLW-OD-02~

11w4.pcs PCS SIMULATOR DATA FILE FOR LLW GLOVEBOX OTP CASE 4

PCSDMS~CL~LLW RWPRT~1~OTP-LLWR-TD-02~
PCSDMS~CL~LLW ENTRY~1~OTP-LLW-OD-04~
PCSDMS~DCS~LLW ENTRY~OTP-LLW-OD-04~F~
PCSDMS~CL~LLW SORT~1~OTP-LLW-WP-04~
PCSDMS~RWPP~LLW_SORT~OTP6-97-000004~OTP-LLW-WP-04~

20 rows selected.

LLW OTP Rrun 9/29/97

SQL> msglog

unknown command "msglog" - rest of line ignored.

SQL> @msglog

SQL> /

Test

Stop

Seq # Date/Time EF Message

124813 30-SEP-97 N PCSDMS~SPDP~875642349~LLW_SORT~97-00001-03L~OTP-LLW-WP-02~

124816 30-SEP-97 N PCSDMS~SPDP~875642373~LLW_SORT~97-00002-01L~OTP-LLW-WP-02~

124865 30-SEP-97 N PCSDMS~CL~875643465~LLW_ENTRY~~1~OTP-LLW-OD-03~

124866 30-SEP-97 N DMSPCS~CL~LLW_ENTRY~1~OTP-LLW-WP-03~

124887 30-SEP-97 N PCSDMS~CL~875643923~LLW_ENTRY~~1~OTP-LLW-OD-03~

124890 30-SEP-97 N PCSDMS~CL~875643946~LLW_ENTRY~~1~OTP-LLW-OD-03~

6 rows selected.

SQL>

LLW-A.929 LLW OTP DATABASE AT THE END OF RETEST 9/12/97

CON_PKG_ID	OTP-LLW-00-01	NDA_TOT_ALPHA_C1	0
CON_CHEM_NATURE_CD	I		
CON_CNTP_CD	DM	CONR_FROM_PKG_ID	OTP-LLW-WP-01
CON_PHYS_STAT_CD	S	CONR_TO_PKG_ID	OTP-LLW-00-01
CON_PKG_STATUS	U	CONR_DT	29-SEP-97 11:15:11
CON_PHYS_CD	M	CONR_REL_CD	C
CON_SIZE_DESCR	85 GALLON		
CON_TARE_WGT	31	CONLOC_PKG_ID	OTP-LLW-00-01
		CONLOC_DT	29-SEP-97 08:49:45
CONEXT_PKG_ID	OTP-LLW-00-01	CONLOC_LOCN_ID	LLW_EXIT
CONEXT_CONTAM_FLAG	Y		
CONEXT_PROF_FLAG	N	CON_PKG_ID	OTP-LLW-00-02
CONEXT_PROF_ID	NRLWL1	CON_CNTP_CD	DM
CONEXT_USE_CD	PD	CON_PKG_STATUS	U
CONEXT_WRAP_STAT_CD	I	CON_SIZE_DESCR	85 GALLON
		CON_TARE_WGT	31
RDET_PKG_ID	OTP-LLW-00-01	CONEXT_PKG_ID	OTP-LLW-00-02
RDET_SWIMS_CD	DD	CONEXT_CONTAM_FLAG	N
RDET_SWTYP_CD	2A	CONEXT_USE_CD	PD
RDET_SWTYP_GROUP	LLW	CONEXT_WRAP_STAT_CD	I
RDET_WASTE_MAKEUP	F		
RDET_WRAP_CAT	SO	RDET_PKG_ID	OTP-LLW-00-02
		RDET_SWTYP_GROUP	LLW
PHYS_PKG_ID	OTP-LLW-00-01	CONLOC_PKG_ID	OTP-LLW-00-02
PHYS_COMP_DESCR	DIRT/SOIL/DIATOMACEOUS	CONLOC_DT	29-SEP-97 11:17:03
	EARTH	CONLOC_LOCN_ID	LLW_EXIT
PHYS_COMP_VOL_PCT	83.936		
PHYS_COMP_WGT	115	CON_PKG_ID	OTP-LLW-00-03
		CON_CNTP_CD	DM
PHYS_PKG_ID	OTP-LLW-00-01	CON_LOCN_FACIL_ID	2336W
PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS	CON_PKG_STATUS	M
PHYS_COMP_VOL_PCT	.488	CON_SIZE_DESCR	85 GALLON
PHYS_COMP_WGT	0	CON_TARE_WGT	31
PHYS_PKG_ID	OTP-LLW-00-01	CONEXT_PKG_ID	OTP-LLW-00-03
PHYS_COMP_DESCR	METAL/IRON/GALVANIZED/SHE	CONEXT_USE_CD	OD
	ET	CONEXT_WRAP_STAT_CD	I
PHYS_COMP_VOL_PCT	2.4		
PHYS_COMP_WGT	27.7	CONR_FROM_PKG_ID	OTP-LLW-WP-03
		CONR_TO_PKG_ID	OTP-LLW-00-03
PHYS_PKG_ID	OTP-LLW-00-01	CONR_DT	05-JAN-97 09:30:00
PHYS_COMP_DESCR	PAPER/CARDBOARD	CONR_REL_CD	M
PHYS_COMP_VOL_PCT	9.272		
PHYS_COMP_WGT	5	CONLOC_PKG_ID	OTP-LLW-00-03
		CONLOC_DT	15-JAN-97 13:00:00
PHYS_PKG_ID	OTP-LLW-00-01	CONLOC_LOCN_ID	AIRCVYR_A3
PHYS_COMP_DESCR	PLASTIC/POLYURATHANE		
PHYS_COMP_VOL_PCT	3.904	CON_PKG_ID	OTP-LLW-00-04
PHYS_COMP_WGT	5	CON_CNTP_CD	DM
		CON_LOCN_FACIL_ID	2336W
HDET_PKG_ID	OTP-LLW-00-01	CON_PKG_STATUS	M
HDET_DESTG_CD	RE	CON_SIZE_DESCR	85 GALLON
HDET_WASTE_VOL	.208	CON_TARE_WGT	31
		CONEXT_PKG_ID	OTP-LLW-00-04
HAZ_PKG_ID	OTP-LLW-00-01	CONEXT_USE_CD	OD
HAZ_COMP_ID	7439-97-6	CONEXT_WRAP_STAT_CD	I
HAZ_COMP_TEXT	MERCURY		
HAZ_COMP_WGT	.001	CONR_FROM_PKG_ID	OTP-LLW-WP-04
HAZ_EPCRA_FLAG	N	CONR_TO_PKG_ID	OTP-LLW-00-04
		CONR_DT	05-JAN-97 09:30:00
HAZ_PKG_ID	OTP-LLW-00-01	CONR_REL_CD	M
HAZ_COMP_ID	TEMP1985		
HAZ_COMP_TEXT	LEAD	CONLOC_PKG_ID	OTP-LLW-00-04
HAZ_COMP_WGT	.085	CONLOC_DT	15-JAN-97 13:00:00
HAZ_EPCRA_FLAG	N	CONLOC_LOCN_ID	AIRCVYR_A3
NDA_PKG_ID	OTP-LLW-00-01	CON_PKG_ID	OTP-LLW-WP-01
NDA_DT	SEP-29-97 15:17:55	CON_ACCUM_DT	19-OCT-93 00:00:00
NDA_DT	3084535075	CON_CHEM_NATURE_CD	I
NDA_ASSAY_NUM	CALC22	CON_CNTR_VOL	.21
NDA_SWTYP_GROUP	LLW		
NDA_THERMAL_POWER	2.26452464788732394366197		
	1830985915493		

No NDAISO
records
ETK 283
failed

CON_CNTYP_CD	DM	PHYS_COMP_WGT	115
CON_GENER_WASTE_DESCR	LOW LEVEL WASTE		
CON_GGRP_ID	ANL	PHYS_PKG_ID	OTP-LLW-WP-01
CON_GROSS_WGT	152.7	PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS
CON_LABPACK_FLAG	N	PHYS_COMP_VOL_PCT	.5
CON_LOCN_FACIL_ID	2336W	PHYS_COMP_WGT	0
CON_PHYS_STATE_CD	S		
CON_PKG_DT	19-OCT-93 00:00:00	PHYS_PKG_ID	OTP-LLW-WP-01
CON_PKG_STATUS	R	PHYS_COMP_DESCR	PAPER/CARDBOARD
CON_PWTYP_CD	M	PHYS_COMP_VOL_PCT	9.5
CON_SAMPLE_FLAG	Y	PHYS_COMP_WGT	5
CON_SCAT_CD	OMW		
CON_SIZE_DESCR	55 GALLON	PHYS_PKG_ID	OTP-LLW-WP-01
CON_SRCE_CHRG_CD	TH233	PHYS_COMP_DESCR	PLASTIC/POLYURATHANE
CON_SRCE_CHPNY_ID	ANL	PHYS_COMP_VOL_PCT	4
CON_SRCE_CHPNY_TYPE	GEN	PHYS_COMP_WGT	5
CON_SRCE_FACIL_ID	ARGON		
CON_TARE_WGT	27.7	HDET_PKG_ID	OTP-LLW-WP-01
CON_TSD_ACCEPT_DT	02-27-95 00:00:00	HDET_CNTR_STATUS	F
CON_WASTE_WGT	125	HDET_DESIG_CD	RE
		HDET_DW_NUM	D008 D009
CONEXT_PKG_ID	OTP-LLW-WP-01	HDET_WASTE_VOL	.208
CONEXT_COMPLIANT_FLAG	Y	HDET_WASTE_STATUS	U
CONEXT_NDE_VER_FLAG	Y		
CONEXT_PROF_FLAG	N	HAZ_PKG_ID	OTP-LLW-WP-01
CONEXT_PROF_ID	NRLLW1	HAZ_COMP_ID	7439-97-6
CONEXT_USE_CD	PU	HAZ_COMP_TEXT	MERCURY
CONEXT_WRAP_STAT_CD	I	HAZ_COMP_WGT	.001
		HAZ_COMP_WGT_PCT	.0009
		HAZ_EPCRA_FLAG	N
RDET_PKG_ID	OTP-LLW-WP-01		
RDET_BG_DOSE_RATE	.1	HAZ_PKG_ID	OTP-LLW-WP-01
RDET_HANDLING	C	HAZ_COMP_ID	TEMP1985
RDET_RELOC_DT	01-SEP-96 00:00:00	HAZ_COMP_TEXT	LEAD
RDET_RSHWS_COUNT		HAZ_COMP_WGT	.085
RDET_SDAR_APPRV_NUM	60-1R-3YM-0401	HAZ_COMP_WGT_PCT	.068
RDET_SWIMS_CD	DD	HAZ_EPCRA_FLAG	N
RDET_SWTYP_CD	2A		
RDET_SWTYP_GROUP	LLW	PDW_PKG_ID	OTP-LLW-WP-01
RDET_THERMAL_POWER	3.53	PDW_NUM	D008
RDET_TOT_BG_CI	.00000254	PDW_LANDBAN	Y
RDET_TOT_DE_CI	.0000097	PDW_SORT_ORDER	808
RDET_WASTE_CAT	WC1		
RDET_WASTE_MAKEUP	F	PDW_PKG_ID	OTP-LLW-WP-01
RDET_WRAP_CAT	SQ	PDW_NUM	D009
		PDW_LANDBAN	Y
		PDW_SORT_ORDER	809
RAD_PKG_ID	OTP-LLW-WP-01		
RAD_ISO_NUM	104	NDA_PKG_ID	OTP-LLW-WP-01
RAD_QTY	.00000788	NDA_DT	SEP-12-96 13:13:25
		NDA_DT	3051522805
RAD_PKG_ID	OTP-LLW-WP-01	NDA_ASSAY_NUM	258
RAD_ISO_NUM	18	NDA_FUT_EVAL_READ	N
RAD_QTY	11	NDA_ISO_TOT	5
		NDA_PROF_ID	NRLLW1
RAD_PKG_ID	OTP-LLW-WP-01	NDA_RVST_FLAG	N
RAD_ISO_NUM	19	NDA_SWTYP_GROUP	LLW
RAD_QTY	.00000254	NDA_THERMAL_POWER	3.5
		NDA_TMU_ALPHA_CI	0
RAD_PKG_ID	OTP-LLW-WP-01	NDA_TMU_THERMAL_POWER	.035
RAD_ISO_NUM	202	NDA_TOT_ALPHA_CI	0
RAD_QTY	.0013	NDA_WASTE_CAT	WC1
RAD_PKG_ID	OTP-LLW-WP-01	NDAISO_PKG_ID	OTP-LLW-WP-01
RAD_ISO_NUM	203	NDAISO_NAME	TH-232
RAD_QTY	.19	NDAISO_ASSAY_NUM	258
		NDAISO_QTY	11
RAD_PKG_ID	OTP-LLW-WP-01	NDAISO_QTY_TMU	.11
RAD_ISO_NUM	206	NDAISO_CONFIDENCE_CK	T
RAD_QTY	25	NDAISO_MEAS_STATUS	ACT
		NDAISO_PAN_ACTIVE	B
RAD_PKG_ID	OTP-LLW-WP-01	NDAISO_PAN_PASSIVE	N
RAD_ISO_NUM	86	NDAISO_GEA	THIS IS ONLY A TEST
RAD_QTY	.00000254		
PHYS_PKG_ID	OTP-LLW-WP-01	NDAISO_PKG_ID	OTP-LLW-WP-01
PHYS_COMP_DESCR	DIRT/SOIL/DIATOMACEOUS	NDAISO_NAME	K-40
	EARTH	NDAISO_ASSAY_NUM	258
PHYS_COMP_VOL_PCT	86		

NDAISO_QTY	.00000254	CON_PHYS_STATE_CD	S
NDAISO_QTY_TMU	.0000000254	CON_PKG_DT	10-JUL-91 00:00:00
NDAISO_CONFIDENCE_CD	T	CON_PKG_STATUS	R
NDAISO_MEAS_STATUS	ACT	CON_PWTYP_CD	M
NDAISO_PAN_ACTIVE	B	CON_SAMPLE_FLAG	N
NDAISO_PAN_PASSIVE	NO	CON_SCAT_CD	FLC
NDAISO_GEA	THIS IS ONLY A TEST	CON_SIZE_DESCR	55 GALLON
NDAISO_PKG_ID	OTP-LLW-WP-01	CON_SRCE_CHRG_CD	WM4G0
NDAISO_NAME	U-234	CON_SRCE_CMPNY_ID	WHC
NDAISO_ASSAY_NUM	258	CON_SRCE_CMPNY_TYPE	GEN
NDAISO_QTY	.00013	CON_SRCE_FACIL_ID	324
NDAISO_QTY_TMU	.000013	CON_TARE_WGT	27
NDAISO_CONFIDENCE_CD	T	CON_TSD_ACCEPT_DT	07-10-91 00:00:00
NDAISO_MEAS_STATUS	ACT	CON_WASTE_WGT	139.34
NDAISO_PAN_ACTIVE	B	CONEXT_PKG_ID	OTP-LLW-WP-02
NDAISO_PAN_PASSIVE	NO	CONEXT_COMPLIANT_FLAG	N
NDAISO_GEA	THIS IS ONLY A TEST	CONEXT_NDE_VER_FLAG	Y
NDAISO_PKG_ID	OTP-LLW-WP-01	CONEXT_PROF_FLAG	N
NDAISO_NAME	U-235	CONEXT_PROF_ID	NRLLW1
NDAISO_ASSAY_NUM	258	CONEXT_ROUTE_CD	3
NDAISO_QTY	.19	CONEXT_USE_CD	WP
NDAISO_QTY_TMU	.0019	CONEXT_VER_GROSS_WGT	171.1
NDAISO_CONFIDENCE_CD	T	CONEXT_VER_GROSS_WGT_FLAG	Y
NDAISO_MEAS_STATUS	ACT	CONEXT_WRAP_STAT_CD	I
NDAISO_PAN_ACTIVE	B	RDET_PKG_ID	OTP-LLW-WP-02
NDAISO_PAN_PASSIVE	NO	RDET_BG_DOSE_RATE	50
NDAISO_GEA	THIS IS ONLY A TEST	RDET_HANDLING	C
NDAISO_PKG_ID	OTP-LLW-WP-01	RDET_RELOC_DT	25-NOV-91 00:00:00
NDAISO_NAME	U-238	RDET_RSWMNS_COUNT	1
NDAISO_ASSAY_NUM	258	RDET_SDAR_APPRV_NUM	7-1A-6LM-1
NDAISO_QTY	.25	RDET_SWMNS_CD	NC
NDAISO_QTY_TMU	.25	RDET_SWTYP_CD	2A
NDAISO_CONFIDENCE_CD	T	RDET_SWTYP_GROUP	LLW
NDAISO_MEAS_STATUS	ACT	RDET_THERMAL_POWER	3.53
NDAISO_PAN_ACTIVE	B	RDET_TOT_ALPHA_CI	0
NDAISO_PAN_PASSIVE	NO	RDET_TOT_BG_CI	0
NDAISO_GEA	THIS IS ONLY A TEST	RDET_TOT_DE_CI	0
NDE_PKG_ID	OTP-LLW-WP-01	RDET_TOT_PE_CI	0
NDE_DT	12-SEP-96 13:05:30	RDET_TOT_PU_FGE	0
NDE_COMMENTS	OTP-LLW-WP-01 1st image comments	RDET_WASTE_MAKEUP	F
NDE_OPER_ID	USER1	RDET_WRAP_CAT	CL
NDE_VDISK_FILE	WP05X	RAD_PKG_ID	OTP-LLW-WP-02
NDE_VDISK_NUM	P22V1	RAD_ISO_NUM	12
NDE_VTAPE_NUM	P22T1	RAD_QTY	.00033
NDE_VTAPE_START	200	RAD_PKG_ID	OTP-LLW-WP-02
NDE_PKG_ID	OTP-LLW-WP-01	RAD_ISO_NUM	152
NDE_DT	12-SEP-96 13:06:38	RAD_QTY	.000005
NDE_COMMENTS	OTP-LLW-WP-01 2nd image comments	RAD_PKG_ID	OTP-LLW-WP-02
NDE_OPER_ID	USER1	RAD_ISO_NUM	153
NDE_VDISK_FILE	WP05Y	RAD_QTY	.00018
NDE_VDISK_NUM	P22V1	RAD_PKG_ID	OTP-LLW-WP-02
NDE_VTAPE_NUM	P22T1	RAD_ISO_NUM	19
NDE_VTAPE_START	250	RAD_QTY	.035405
CONR_FROM_PKG_ID	OTP-LLW-WP-01	RAD_UNKNOWN	0
CONR_TO_PKG_ID	OTP-LLW-WP-01	RAD_PKG_ID	OTP-LLW-WP-02
CONR_DT	29-SEP-97 11:15:11	RAD_ISO_NUM	43
CONR_REL_CD	C	RAD_QTY	.00045
CON_PKG_ID	OTP-LLW-WP-02	RAD_PKG_ID	OTP-LLW-WP-02
CON_ACCUM_DT	10-JUL-91 00:00:00	RAD_ISO_NUM	53
CON_CHEM_NATURE_CD	10	RAD_QTY	.00014
CON_CNTR_VOL	.21	RAD_PKG_ID	OTP-LLW-WP-02
CON_CNTP_CD	DM	RAD_ISO_NUM	56
CON_DATA_QUAL_CD	AR	RAD_QTY	.0003
CON_GENER_WASTE_DESCR	INNER	RAD_PKG_ID	OTP-LLW-WP-02
CON_GGRP_ID	OTHER	RAD_ISO_NUM	91
CON_GROSS_WGT	170.1	RAD_QTY	.034
CON_LABPACK_FLAG	N		
CON_LOCN_FACIL_ID	2336W		

PHYS_PKG_ID	OTP-LLW-WP-02	CONLOC_DT	29-SEP-97 11:17:06
PHYS_COMP_DESCR	CONWEB PADS	CONLOC_LOCN_ID	LLW_SORT
PHYS_COMP_VOL_PCT	93		
PHYS_COMP_WGT	127.5	CON_PKG_ID	OTP-LLW-WP-03
		CON_ACCUM_DT	29-MAY-90 00:00:00
PHYS_PKG_ID	OTP-LLW-WP-02	CON_CNTR_VOL	.21
PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS	CON_CNTRY_CD	DM
PHYS_COMP_VOL_PCT	5	CON_DATA_QUAL_CD	AR
PHYS_COMP_WGT	.64	CON_GENER_WASTE_DESCR	INNER
		CON_GGRP_ID	OTHER
PHYS_PKG_ID	OTP-LLW-WP-02	CON_GROSS_WGT	163.02
PHYS_COMP_DESCR	WATER	CON_LABPACK_FLAG	N
PHYS_COMP_VOL_PCT	2	CON_LOCN_FACIL_ID	2336W
PHYS_COMP_WGT	3.9	CON_PHYS_STATE_CD	S
		CON_PKG_DT	29-MAY-90 00:00:00
HDET_PKG_ID	OTP-LLW-WP-02	CON_PKG_STATUS	T
HDET_DESTG_CD	RD	CON_PWTYP_CD	R
HDET_DW_NUM	D002	CON_SAMPLE_FLAG	N
HDET_WASTE_VOL	.21	CON_SIZE_DESCR	55 GALLON
		CON_SRCE_CHRG_CD	B80545
HAZ_PKG_ID	OTP-LLW-WP-02	CON_SRCE_CMPNY_ID	PNL
HAZ_COMP_ID	TEMP2091	CON_SRCE_CMPNY_TYPE	GEN
HAZ_COMP_TEXT	LIQUID WASTE	CON_SRCE_FACIL_ID	324
HAZ_COMP_WGT	.6	CON_TARE_WGT	27
		CON_ISD_ACCEPT_DT	05-29-90 00:00:00
HAZ_PKG_ID	OTP-LLW-WP-02	CON_WASTE_WGT	136
HAZ_COMP_ID	TEMP3413		
HAZ_COMP_TEXT	SODIUM CHLORIDE	CONEXT_PKG_ID	OTP-LLW-WP-03
HAZ_COMP_WGT	.04	CONEXT_COMPLIANT_FLAG	Y
		CONEXT_NDE_VER_FLAG	Y
NDA_PKG_ID	OTP-LLW-WP-02	CONEXT_PROF_FLAG	N
NDA_DT	SEP-12-96 13:47:13	CONEXT_PROF_ID	NRLLW1
NDA_DT	3051524833	CONEXT_USE_CD	WP
NDA_ASSAY_NUM	265	CONEXT_WRAP_STAT_CD	I
NDA_FUT_EVAL_REQD	N		
NDA_ISO_TOT	1	RDET_PKG_ID	OTP-LLW-WP-03
NDA_PROF_ID	NRLLW1	RDET_BG_DOSE_RATE	7
NDA_RVST_FLAG	N	RDET_HANDLING	C
NDA_SWTYP_GROUP	LLW	RDET_RELOC_DT	29-MAY-90 00:00:00
NDA_THERMAL_POWER	3.53	RDET_RSWIMS_COUNT	1
NDA_TMU_ALPHA_CI	0	RDET_SDAR_APPRV_NUM	2A-1A-1A-0
NDA_TMU_THERMAL_POWER	.0353	RDET_SWIMS_CD	CE
NDA_TOT_ALPHA_CI	0	RDET_SWTYP_CD	2A
NDA_WASTE_CAT	GTWC3	RDET_SWTYP_GROUP	LLW
		RDET_THERMAL_POWER	3.53
NDAISO_PKG_ID	OTP-LLW-WP-02	RDET_TOT_BG_CI	.01212
NDAISO_NAME	NA-22	RDET_TOT_DE_CI	1
NDAISO_ASSAY_NUM	265	RDET_WASTE_MAKEUP	F
NDAISO_QTY	.0003	RDET_WRAP_CAT	DM
NDAISO_QTY_TMU	.000003		
NDAISO_CONFIDENCE_CHK	T	RAD_PKG_ID	OTP-LLW-WP-03
NDAISO_MEAS_STATUS	ACT	RAD_ISO_NUM	19
NDAISO_PAN_ACTIVE	A	RAD_QTY	.01212
NDAISO_PAN_PASSIVE	NO	RAD_UNKNOWN	.000324
NDAISO_GEA	THIS IS ONLY A TEST		
NDE_PKG_ID	OTP-LLW-WP-02	RAD_PKG_ID	OTP-LLW-WP-03
NDE_DT	12-SEP-96 13:39:22	RAD_ISO_NUM	3
NDE_COMMENTS	OTP-LLW-WP-02 1st image	RAD_QTY	.00006
	comments		
NDE_OPER_ID	USER1	RAD_PKG_ID	OTP-LLW-WP-03
NDE_VDISK_FILE	WP11X	RAD_ISO_NUM	8
NDE_VDISK_NUM	P22V1	RAD_QTY	.006
NDE_VTAPE_NUM	P22T1		
NDE_VTAPE_START	200	PHYS_PKG_ID	OTP-LLW-WP-03
		PHYS_COMP_DESCR	CLOTH/RAGS/NYLON
NDE_PKG_ID	OTP-LLW-WP-02	PHYS_COMP_VOL_PCT	10
NDE_DT	12-SEP-96 13:40:09	PHYS_COMP_WGT	14
NDE_COMMENTS	OTP-LLW-WP-02 2nd image		
	comments	PHYS_PKG_ID	OTP-LLW-WP-03
NDE_OPER_ID	USER1	PHYS_COMP_DESCR	PAPER/CARDBOARD
NDE_VDISK_FILE	WP11Y	PHYS_COMP_VOL_PCT	30
NDE_VDISK_NUM	P22V1	PHYS_COMP_WGT	41
NDE_VTAPE_NUM	P22T1		
NDE_VTAPE_START	250	PHYS_PKG_ID	OTP-LLW-WP-03
		PHYS_COMP_DESCR	PLASTIC/POLYURATHANE
CONLOC_PKG_ID	OTP-LLW-WP-02	PHYS_COMP_VOL_PCT	60
		PHYS_COMP_WGT	81

NDA_PKG_ID	OTP-LLW-WP-03	CON_SCAT_CD	OMW
NDA_DT	SEP-12-96 13:34:22	CON_SIZE_DESCR	55 GALLON
NDA_DT	3051524062	CON_SRCE_CHRG_CD	B3314
NDA_ASSAY_NUM	262	CON_SRCE_CMPNY_ID	WMC
NDA_FUT_EVAL_REQD	N	CON_SRCE_CMPNY_TYP	GEN
NDA_ISO_TOT	2	CON_SRCE_FACIL_ID	324
NDA_PROF_ID	NRLLW1	CON_TARE_WGT	27
NDA_RVST_FLAG	N	CON_TSD_ACCEPT_DT	07-05-90 00:00:00
NDA_SWTYP_GROUP	LLW	CON_WASTE_WGT	32.1
NDA_THERMAL_POWER	5.45		
NDA_TMU_ALPHA_CI	0	CONEXT_PKG_ID	OTP-LLW-WP-04
NDA_TMU_THERMAL_POWER	.0545	CONEXT_COMPLIANT_FLAG	N
NDA_TOT_ALPHA_CI	0	CONEXT_NDE_VER_FLAG	Y
NDA_WASTE_CAT	GTWC3	CONEXT_PROF_FLAG	N
		CONEXT_PROF_ID	NRLLW1
NDAISO_PKG_ID	OTP-LLW-WP-03	CONEXT_USE_CD	WP
NDAISO_NAME	CS-137	CONEXT_WRAP_STAT_CD	I
NDAISO_ASSAY_NUM	262		
NDAISO_QTY	.006	RDET_PKG_ID	OTP-LLW-WP-04
NDAISO_QTY_TMU	.00006	RDET_ASSAY_DT	10-JUL-49 00:00:00
NDAISO_CONFIDENCE_CK	T	RDET_BG_DOSE_RATE	2
NDAISO_MEAS_STATUS	ACT	RDET_HANDLING	C
NDAISO_PAN_ACTIVE	B	RDET_RELOC_DT	10-AUG-93 00:00:00
NDAISO_PAN_PASSIVE	NO	RDET_RSWMIS_COUNT	1
NDAISO_GEA	THIS IS ONLY A TEST	RDET_SDAR_APPRV_NUM	4-1A-7VM-0
		RDET_SWIMS_CD	DS
NDAISO_PKG_ID	OTP-LLW-WP-03	RDET_SWTYP_CD	2A
NDAISO_NAME	SR-90	RDET_SWTYP_GROUP	LLW
NDAISO_ASSAY_NUM	262	RDET_THERMAL_POWER	3.53
NDAISO_QTY	.00006	RDET_TOT_ALPHA_CI	0
NDAISO_QTY_TMU	.0000006	RDET_TOT_BG_CI	0
NDAISO_CONFIDENCE_CK	T	RDET_TOT_DE_CI	0
NDAISO_MEAS_STATUS	ACT	RDET_TOT_PE_CI	0
NDAISO_PAN_ACTIVE	B	RDET_TOT_PU_FGE	0
NDAISO_PAN_PASSIVE	NO	RDET_WASTE_MAKEUP	F
NDAISO_GEA	THIS IS ONLY A TEST	RDET_WRAP_CAT	PB
NDE_PKG_ID	OTP-LLW-WP-03	RAD_PKG_ID	OTP-LLW-WP-04
NDE_DT	12-SEP-96 13:31:45	RAD_ISO_NUM	13
NDE_COMMENTS	OTP-LLW-WP-03 1st image comments	RAD_QTY	.000004
NDE_OPER_ID	USER1	RAD_PKG_ID	OTP-LLW-WP-04
NDE_VDISK_FILE	WP04X	RAD_ISO_NUM	19
NDE_VDISK_NUM	P22V1	RAD_QTY	.000233
NDE_VTAPE_NUM	P22T1	RAD_UNKNOWN	.0000007163
NDE_VTAPE_START	200		
		RAD_PKG_ID	OTP-LLW-WP-04
NDE_PKG_ID	OTP-LLW-WP-03	RAD_ISO_NUM	31
NDE_DT	12-SEP-96 13:33:16	RAD_QTY	.000032
NDE_COMMENTS	OTP-LLW-WP-03 2nd image comments		
		RAD_PKG_ID	OTP-LLW-WP-04
NDE_OPER_ID	USER1	RAD_ISO_NUM	4
NDE_VDISK_FILE	WP04X	RAD_QTY	.000083
NDE_VDISK_NUM	P22V1		
NDE_VTAPE_NUM	P22T1	RAD_PKG_ID	OTP-LLW-WP-04
NDE_VTAPE_START	250	RAD_ISO_NUM	40
		RAD_QTY	.000002
CONR_FROM_PKG_ID	OTP-LLW-WP-03	RAD_PKG_ID	OTP-LLW-WP-04
CONR_TO_PKG_ID	OTP-LLW-WP-03	RAD_ISO_NUM	53
CONR_DT	05-JAN-97 09:30:00	RAD_QTY	.000001
CONR_REL_CD	M		
		RAD_PKG_ID	OTP-LLW-WP-04
CON_PKG_ID	OTP-LLW-WP-04	RAD_ISO_NUM	8
CON_ACCUM_DT	05-JUL-90 00:00:00	RAD_QTY	.000013
CON_CNTR_VOL	.21		
CON_CNTR_CD	DM	RAD_PKG_ID	OTP-LLW-WP-04
CON_DATA_QUAL_CD	AR	RAD_ISO_NUM	9
CON_GEVER_WASTE_DESCR	INNER	RAD_QTY	.000001
CON_GGRP_ID	OTHER		
CON_GROSS_WGT	358.34	PHYS_PKG_ID	OTP-LLW-WP-04
CON_LABPACK_FLAG	N	PHYS_COMP_DESCR	CLOTH/RAGS/NYLON
CON_LOCN_FACIL_ID	2336W	PHYS_COMP_VOL_PCT	48
CON_PHYS_STATE_CD	S	PHYS_COMP_WGT	13.6
CON_PKG_DT	05-JUL-90 00:00:00		
CON_PKG_STATUS	T	PHYS_PKG_ID	OTP-LLW-WP-04
CON_PWTYP_CD	M	PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS
CON_SAMPLE_FLAG	N		

PHYS_COMP_VOL_PCT 5
 PHYS_COMP_WGT .64
 PHYS_PKG_ID OTP-LLW-WP-04
 PHYS_COMP_DESCR PLASTIC/POLYURATHANE
 PHYS_COMP_VOL_PCT 20
 PHYS_COMP_WGT 4.1

HDET_PKG_ID OTP-LLW-WP-04
 HDET_DESTG_CD RE
 HDET_DW_NUM D008 W101
 HDET_WASTE_VOL .07

HAZ_PKG_ID OTP-LLW-WP-04
 HAZ_COMP_ID TEMP0440
 HAZ_COMP_TEXT ACID
 HAZ_COMP_WGT 1.5
 HAZ_COMP_WGT_PCT 5

HAZ_PKG_ID OTP-LLW-WP-04
 HAZ_COMP_ID TEMP1985
 HAZ_COMP_TEXT LEAD
 HAZ_COMP_WGT 8.9
 HAZ_COMP_WGT_PCT 28

HAZ_PKG_ID OTP-LLW-WP-04
 HAZ_COMP_ID TEMP2628
 HAZ_COMP_TEXT OIL
 HAZ_COMP_WGT 1.9
 HAZ_COMP_WGT_PCT 6

HAZ_PKG_ID OTP-LLW-WP-04
 HAZ_COMP_ID TEMP3530
 HAZ_COMP_TEXT SOLVENTS
 HAZ_COMP_WGT 2.1
 HAZ_COMP_WGT_PCT 6

NDA_PKG_ID OTP-LLW-WP-04
 NDA_DT SEP-12-96 13:18:27
 NDA_DT 3051523107
 NDA_ASSAY_NUM 261
 NDA_FUT_EVAL_REQD N
 NDA_ISO_TOT 4
 NDA_PROF_ID NRLLW1
 NDA_RVST_FLAG N
 NDA_SWTYP_GROUP LLW
 NDA_THERMAL_POWER 5.45
 NDA_TMU_ALPHA_CI 0
 NDA_TMU_THERMAL_POWER .0545
 NDA_TOT_ALPHA_CI 0
 NDA_WASTE_CAT GTWC3

NDAISO_PKG_ID OTP-LLW-WP-04
 NDAISO_NAME CO-60
 NDAISO_ASSAY_NUM 261
 NDAISO_QTY .000004
 NDAISO_QTY_TMU .00000004
 NDAISO_CONFIDENCE CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE A
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-04
 NDAISO_NAME CS-137
 NDAISO_ASSAY_NUM 261
 NDAISO_QTY .000013
 NDAISO_QTY_TMU .00000013
 NDAISO_CONFIDENCE CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE A
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-04
 NDAISO_NAME EU-154
 NDAISO_ASSAY_NUM 261

NDAISO_QTY .000002
 NDAISO_QTY_TMU .00000002
 NDAISO_CONFIDENCE CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE A
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-04
 NDAISO_NAME EU-155
 NDAISO_ASSAY_NUM 261
 NDAISO_QTY .000032
 NDAISO_QTY_TMU .00000032
 NDAISO_CONFIDENCE CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE A
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDE_PKG_ID OTP-LLW-WP-04
 NDE_DT 12-SEP-96 13:11:35
 NDE_COMMENTS OTP-LLW-WP-04 1st image comments

NDE_OPER_ID USER1
 NDE_VDISK_FILE WP08X
 NDE_VDISK_NUM P22V1
 NDE_VTAPE_NUM P22T1
 NDE_VTAPE_START 200

NDE_PKG_ID OTP-LLW-WP-04
 NDE_DT 12-SEP-96 13:12:10
 NDE_COMMENTS OTP-LLW-WP-04 2nd image comments

NDE_OPER_ID USER1
 NDE_VDISK_FILE WP08Y
 NDE_VDISK_NUM P22V1
 NDE_VTAPE_NUM P22T1
 NDE_VTAPE_START 250

CONR_FROM_PKG_ID OTP-LLW-WP-04
 CONR_TO_PKG_ID OTP-LLW-WP-04
 CONR_DT 05-JAN-97 09:30:00
 CONR_REL_CD M

CON_PKG_ID OTP001
 CON_ACCUM_DT 19-OCT-93 00:00:00
 CON_CHEM_NATURE_CD I
 CON_CNTR_VOL .21
 CON_CNTRY_CD DM
 CON_GENER_WASTE_DESCR LOW LEVEL WASTE
 CON_GGRP_ID ANL
 CON_GROSS_WGT 150
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 19-OCT-93 00:00:00
 CON_PKG_STATUS R
 CON_PWTYP_CD M
 CON_SAMPLE_FLAG Y
 CON_SCAT_CD OMW
 CON_SEC_PKG_ID OTP-LLW-WP-01
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD TH233
 CON_SRCE_CMPNY_ID ANL
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID ARGON
 CON_TARE_WGT 27.7
 CON_TSD_ACCEPT_DT 02-27-95 00:00:00
 CON_WASTE_WGT 125

CONEXT_PKG_ID OTP001
 CONEXT_COMPLIANT_FLAG Y
 CONEXT_HEIGHT .5
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_USE_CD WP

CONEXT_WRAP_STAT_CD	I	HAZ_COMP_WGT	.001
RDET_PKG_ID	OTP001	HAZ_COMP_WGT_PCT	.0009
RDET_BG_DOSE_RATE	.1	HAZ_EPCRA_FLAG	N
RDET_HANDLING	C	HAZ_PKG_ID	OTP001
RDET_RELOC_DT	01-SEP-96 00:00:00	HAZ_COMP_ID	TEMP1985
RDET_RSWIMS_COUNT	1	HAZ_COMP_TEXT	LEAD
RDET_SDAR_APPRV_NUM	60-1R-3YM-0401	HAZ_COMP_WGT	.085
RDET_SWIMS_CD	DD	HAZ_COMP_WGT_PCT	.068
RDET_SWTYP_CD	2A	HAZ_EPCRA_FLAG	N
RDET_SWTYP_GROUP	LLW	CON_PKG_ID	<u>OTP-LLWR-TD-01</u>
RDET_THERMAL_POWER	3.53	CON_CNTP_CD	DM
RDET_TOT_BG_C1	.00000254	CON_LOCN_FACIL_ID	2336W
RDET_TOT_DE_C1	.0000097	CON_PKG_STATUS	G
RDET_WASTE_CAT	WC1	CON_SCAT_CD	ANY
RDET_WASTE_MAKEUP	F	CON_SIZE_DESCR	85 GALLON
RDET_WRAP_CAT	SO	CON_TARE_WGT	31
RAD_PKG_ID	OTP001	CONEXT_PKG_ID	OTP-LLWR-TD-01
RAD_ISO_NUM	104	CONEXT_CNTR_STATUS	E
RAD_QTY	.00000788	CONEXT_USE_CD	TD
RAD_PKG_ID	OTP001	CONEXT_WRAP_STAT_CD	I
RAD_ISO_NUM	18	CONLOC_PKG_ID	OTP-LLWR-TD-01
RAD_QTY	11	CONLOC_DT	29-SEP-97 08:49:34
RAD_PKG_ID	OTP001	CONLOC_LOCN_ID	LLW_RWMPRT
RAD_ISO_NUM	19	CON_PKG_ID	<u>OTP-LLWR-TD-02</u>
RAD_QTY	.00000254	CON_CNTP_CD	DM
RAD_PKG_ID	OTP001	CON_LOCN_FACIL_ID	2336W
RAD_ISO_NUM	202	CON_PKG_STATUS	G
RAD_QTY	.0013	CON_SCAT_CD	ANY
RAD_PKG_ID	OTP001	CON_SIZE_DESCR	85 GALLON
RAD_ISO_NUM	203	CON_TARE_WGT	31
RAD_QTY	.19	CONEXT_PKG_ID	OTP-LLWR-TD-02
RAD_PKG_ID	OTP001	CONEXT_CNTR_STATUS	E
RAD_ISO_NUM	206	CONEXT_USE_CD	TD
RAD_QTY	25	CONEXT_WRAP_STAT_CD	I
RAD_PKG_ID	OTP001	CONLOC_PKG_ID	OTP-LLWR-TD-02
RAD_ISO_NUM	86	CONLOC_DT	05-FEB-97 16:00:00
RAD_QTY	.00000254	CONLOC_LOCN_ID	RWM_CRSL
PHYS_PKG_ID	OTP001	CON_PKG_ID	<u>OTP6-97-300001</u>
PHYS_COMP_DESCR	DIRT/SOIL/DIATOMACEOUS	CONEXT_PKG_ID	OTP6-97-300001
PHYS_COMP_VOL_PCT	EARTH	CONEXT_USE_CD	PP
PHYS_COMP_WGT	86	CONR_FROM_PKG_ID	OTP6-97-300001
PHYS_PKG_ID	OTP001	CONR_TO_PKG_ID	OTP6-97-400001
PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS	CONR_DT	29-SEP-97 11:15:00
PHYS_COMP_VOL_PCT	.5	CONR_REL_CD	0
PHYS_COMP_WGT	0	CON_PKG_ID	<u>OTP6-97-400001</u>
PHYS_PKG_ID	OTP001	CON_PKG_DT	29-SEP-97 11:15:00
PHYS_COMP_DESCR	PAPER/CARDBOARD	CON_PKG_STATUS	G
PHYS_COMP_VOL_PCT	9.5	CONEXT_PKG_ID	OTP6-97-400001
PHYS_COMP_WGT	5	CONEXT_USE_CD	TP
PHYS_PKG_ID	OTP001	CONR_FROM_PKG_ID	OTP6-97-300001
PHYS_COMP_DESCR	PLASTIC/POLYURATHANE	CONR_TO_PKG_ID	OTP6-97-400001
PHYS_COMP_VOL_PCT	4	CONR_DT	29-SEP-97 11:15:00
PHYS_COMP_WGT	5	CONR_REL_CD	0
HDET_PKG_ID	OTP001	CONLOC_PKG_ID	OTP6-97-400001
HDET_CNTR_STATUS	F	CONLOC_DT	29-SEP-97 11:15:00
HDET_DESIG_CD	RE	CONLOC_LOCN_ID	LLW_PP
HDET_DW_NUM	D008 D009	CON_PKG_ID	PUCK289
HDET_WASTE_VOL	.208	CON_ACCUM_DT	10-JUL-91 00:00:00
HDET_WASTE_STATUS	U	CON_CHEM_NATURE_CD	IO
HAZ_PKG_ID	OTP001	CON_CNTR_VOL	.21
HAZ_COMP_ID	7439-97-6	CON_CNTP_CD	DM
HAZ_COMP_TEXT	MERCURY	CON_DATA_QUAL_CD	AR

CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 170.1
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 23364
 CON_PHYS_STATE_CD S
 CON_PKG_DT 10-JUL-91 00:00:00
 CON_PKG_STATUS R
 CON_PWTYP_CD (R) ETR 281
 CON_SAMPLE_FLAG N
 CON_SCAT_CD FLC
 CON_SEC_PKG_ID OTP-LLW-WP-02
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD WM4G0
 CON_SRCE_CMPNY_ID WMC
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 07-10-91 00:00:00
 CON_WASTE_WGT 139.34

CONEXT_PKG_ID PUCK289
 CONEXT_COMPLIANT_FLAG N
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_ROUTE_CD 3
 CONEXT_USE_CD WP
 CONEXT_VER_GROSS_WGT 171.1
 CONEXT_VER_GROSS_WGT_FLAG Y
 CONEXT_WRAP_STAT_CD I

RDET_PKG_ID PUCK289
 RDET_BG_DOSE_RATE 50
 RDET_HANDLING C
 RDET_RELOC_DT 25-NOV-91 00:00:00
 RDET_RSWIMS_COUNT 1
 RDET_SDAR_APPRV_NUM 7-1A-6LM-1
 RDET_SWIMS_CD NC
 RDET_SWTYP_CD 2A
 RDET_SWTYP_GROUP LLW
 RDET_THERMAL_POWER 3.53
 RDET_TOT_ALPHA_CI 0
 RDET_TOT_BG_CI 0
 RDET_TOT_DE_CI 0
 RDET_TOT_PE_CI 0
 RDET_TOT_PU_FGE 0
 RDET_WASTE_MAKEUP F
 RDET_WRAP_CAT CL

RAD_PKG_ID PUCK289
 RAD_ISO_NUM 12
 RAD_QTY .00033

RAD_PKG_ID PUCK289
 RAD_ISO_NUM 152
 RAD_QTY .000005

RAD_PKG_ID PUCK289
 RAD_ISO_NUM 153
 RAD_QTY .00018

RAD_PKG_ID PUCK289
 RAD_ISO_NUM 19
 RAD_QTY .035405
 RAD_UNKNOWN 0

RAD_PKG_ID PUCK289
 RAD_ISO_NUM 43
 RAD_QTY .00045

RAD_PKG_ID PUCK289
 RAD_ISO_NUM 53
 RAD_QTY .00014

RAD_PKG_ID PUCK289

RAD_ISO_NUM 56
 RAD_QTY .0003
 RAD_PKG_ID PUCK289
 RAD_ISO_NUM 91
 RAD_QTY .034

PHYS_PKG_ID PUCK289
 PHYS_COMP_DESCR CONWBE PADS
 PHYS_COMP_VOL_PCT 93
 PHYS_COMP_WGT 127.5

PHYS_PKG_ID PUCK289
 PHYS_COMP_DESCR HAZARDOUS CONSTITUENTS
 PHYS_COMP_VOL_PCT 5
 PHYS_COMP_WGT .64

PHYS_PKG_ID PUCK289
 PHYS_COMP_DESCR WATER
 PHYS_COMP_VOL_PCT 2
 PHYS_COMP_WGT 3.9

RADMAT_ID RADMAT_ID
 RADMAT_DESCR WRAP 1 FACILITY
 RADMAT_LIMIT 100
 RADMAT_RAD_TOT 10
 RADMAT_UNITS CI
 RADMAT_ALARM N

RADMAT_ID R
 RADMAT_DESCR TRU RWM GLOVEBOX
 RADMAT_LIMIT 200
 RADMAT_RAD_TOT 10
 RADMAT_UNITS FGE
 RADMAT_ALARM N

RADMAT_ID T
 RADMAT_DESCR TRU GLOVEBOX
 RADMAT_LIMIT 200
 RADMAT_RAD_TOT 10
 RADMAT_UNITS FGE
 RADMAT_ALARM N

SAM_SAMPLE_ID 97-00001
 SAM_CLOSED_FLAG N
 SAM_LOCN_ID LLW_SORT
 SAM_TAKEN_BY 62264
 SAM_TAKEN_DT 29-SEP-97 11:10:24
 SAM_TEMP (22) ETR 279
 SAM_PKG_ID OTP-LLW-WP-01

SAM_SAMPLE_ID 97-00002
 SAM_CLOSED_FLAG N
 SAM_LOCN_ID LLW_SORT
 SAM_PKG_ID OTP-LLW-WP-02

SAR_SAMPLE_ID 97-00001
 SAR_ANAL_CD AQLIQ

SAR_SAMPLE_ID 97-00001
 SAR_ANAL_CD COND

SAR_SAMPLE_ID 97-00001
 SAR_ANAL_CD SOLVENTS

SAR_SAMPLE_ID 97-00002
 SAR_ANAL_CD AQLIQ

BOT_BOTTLE_ID 97-00001-01L
 BOT_SAMPLE_ID 97-00001
 BOT_ANAL_CD AQLIQ

BOT_BOTTLE_ID 97-00001-02L
 BOT_SAMPLE_ID 97-00001
 BOT_ANAL_CD COND

BOT_BOTTLE_ID 97-00001-03L

BOT_SAMPLE_ID	97-00001
BOT_ANAL_CD	SOLVENTS
BOT_BOTTLE_ID	97-00002-01L
BOT_SAMPLE_ID	97-00002
BOT_ANAL_CD	AQLIQ
SAMREL_BOTTLE_ID	97-00001-01L
SAMREL_PKG_ID	OTP-LLW-WP-01
SAMREL_DT	29-SEP-97 00:00:00
SAMREL_USE_CD	WP
SAMREL_BOTTLE_ID	97-00001-01L
SAMREL_PKG_ID	OTP6-97-300001
SAMREL_DT	29-SEP-97 11:14:48
SAMREL_USE_CD	PP
SAMREL_BOTTLE_ID	97-00001-02L
SAMREL_PKG_ID	OTP-LLW-WP-01
SAMREL_DT	29-SEP-97 00:00:00
SAMREL_USE_CD	WP
SAMREL_BOTTLE_ID	97-00001-02L
SAMREL_PKG_ID	OTP6-97-300001
SAMREL_DT	29-SEP-97 11:14:58
SAMREL_USE_CD	PP
MSGLOG_DT	09-29-97 15:23:59
MSGLOG_ERROR_FLAG	N
MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	121819
MSGLOG_SPEC_TYPE	SPDP
MSGLOG_STRING1	PCSDMS~SPDP~875571842~LLW _SORT 97-00001-03L~OTP-LL W-WP-04~
MSGLOG_DT	09-29-97 15:24:52
MSGLOG_ERROR_FLAG	N
MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	121822
MSGLOG_SPEC_TYPE	SPDP
MSGLOG_STRING1	PCSDMS~SPDP~875571894~LLW _SORT 97-00002-01L~OTP-LL W-WP-04~
MSGLOG_DT	09-29-97 15:26:28
MSGLOG_ERROR_FLAG	N
MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	121829
MSGLOG_SPEC_TYPE	SPDP
MSGLOG_STRING1	PCSDMS~SPDP~875571991~LLW _SORT 97-00002-01L~OTP-LL W-WP-04~

CASE#18

LLW-1B.808 DMS DATABASE PRIOR TO THE START OF LLW GLOVEBOX OTP CASE 1 8/8/97

CON PKG ID OTP-LLW-OD-01
 CON CNTYP_CD DM
 CON_LOCN_FACIL_ID 2336W
 CON_PKG_STATUS M
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON PKG ID OTP-LLW-OD-02
 CON CNTYP_CD DM
 CON_LOCN_FACIL_ID 2336W
 CON_PKG_STATUS M
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON PKG ID OTP-LLW-OD-03
 CON CNTYP_CD DM
 CON_LOCN_FACIL_ID 2336W
 CON_PKG_STATUS M
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON PKG ID OTP-LLW-OD-04
 CON CNTYP_CD DM
 CON_LOCN_FACIL_ID 2336W
 CON_PKG_STATUS M
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON PKG ID OTP-LLW-WP-01
 CON_ACCUM_DT 19-OCT-93
 CON_CHEM_NATURE_CD I
 CON_CNTR_VOL .21
 CON_CNTR_CD DM
 CON_GENER_WASTE_DESCR LOW LEVEL WASTE
 CON_GGRP_ID ANL
 CON_GROSS_WGT 152.7
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 19-OCT-93
 CON_PKG_STATUS T
 CON_PWTP_CD M
 CON_SAMPLE_FLAG Y
 CON_SCAT_CD OMW
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD TH233
 CON_SRCE_CMPNY_ID ANL
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID ARGON
 CON_TARE_WGT 27.7
 CON_TSD_ACCEPT_DT 27-FEB-95
 CON_WASTE_WGT 125

CON PKG ID OTP-LLW-WP-02
 CON_ACCUM_DT 10-JUL-91
 CON_CHEM_NATURE_CD IO
 CON_CNTR_VOL .21
 CON_CNTR_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 170.1
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 10-JUL-91
 CON_PKG_STATUS T
 CON_PWTP_CD M
 CON_SAMPLE_FLAG N
 CON_SCAT_CD FLC
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD WM4GO
 CON_SRCE_CMPNY_ID WHC

CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 10-JUL-91
 CON_WASTE_WGT 139.34

CON PKG ID OTP-LLW-WP-03
 CON_ACCUM_DT 29-MAY-90
 CON_CNTR_VOL .21
 CON_CNTR_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 163.02
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 29-MAY-90
 CON_PKG_STATUS T
 CON_PWTP_CD R
 CON_SAMPLE_FLAG N
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD BB0545
 CON_SRCE_CMPNY_ID PNL
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 29-MAY-90
 CON_WASTE_WGT 136

CON PKG ID OTP-LLW-WP-04
 CON_ACCUM_DT 05-JUL-90
 CON_CNTR_VOL .21
 CON_CNTR_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 358.34
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 05-JUL-90
 CON_PKG_STATUS T
 CON_PWTP_CD M
 CON_SAMPLE_FLAG N
 CON_SCAT_CD OMW
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD B3314
 CON_SRCE_CMPNY_ID WHC
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 05-JUL-90
 CON_WASTE_WGT 32.1

CON PKG ID OTP-LLWR-TD-01
 CON_CNTR_CD DM
 CON_LOCN_FACIL_ID 2336W
 CON_PKG_STATUS G
 CON_SCAT_CD ANY
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON PKG ID OTP-LLWR-TD-02
 CON_CNTR_CD DM
 CON_LOCN_FACIL_ID 2336W
 CON_PKG_STATUS G
 CON_SCAT_CD ANY
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON PKG ID OTP6-97-300001

CON PKG ID

CON PKG ID
CON ACCUM_DT
CON_CNTR_VOL
CON_CNTP_CD
CON_DATA_QUAL_CD
CON_GGRP_ID
CON_GROSS_WGT
CON_LABPACK_FLAG
CON_LOCM_FACIL_ID
CON_PHYS_STATE_CD
CON_PKG_DT
CON_PKG_STATUS
CON_PWTYP_CD
CON_SCAT_CD
CON_SEC_PKG_ID
CON_SHIP_DT
CON_SIZE_DESCR
CON_SRCE_CHRG_CD
CON_SRCE_CMPNY_ID
CON_SRCE_CMPNY_TYPE
CON_SRCE_FACIL_ID
CON_TARE_WGT
CON_TSD_ACCEPT_DT
CON_WASTE_WGT

CON PKG ID

CON ACCUM_DT
CON_CNTR_VOL
CON_CNTP_CD
CON_DATA_QUAL_CD
CON_GGRP_ID
CON_GROSS_WGT
CON_LABPACK_FLAG
CON_LOCM_FACIL_ID
CON_PHYS_STATE_CD
CON_PKG_DT
CON_PKG_STATUS
CON_PWTYP_CD
CON_SCAT_CD
CON_SEC_PKG_ID
CON_SHIP_DT
CON_SIZE_DESCR
CON_SRCE_CHRG_CD
CON_SRCE_CMPNY_ID
CON_SRCE_CMPNY_TYPE
CON_SRCE_FACIL_ID
CON_TARE_WGT
CON_TSD_ACCEPT_DT
CON_WASTE_WGT

CONEXT_PKG_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

CONEXT_PKG_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

CONEXT_PKG_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

CONEXT_PKG_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

CONEXT_PKG_ID
CONEXT_COMPLIANT_FLAG
CONEXT_NDE_VER_FLAG
CONEXT_PROF_FLAG
CONEXT_PROF_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

OTP6-97-400001

RHZ-101-A13568
14-OCT-85
.21
DM
AR
PPF
72.98
N
2336W
S
14-OCT-85
T
R
TRU
A13568
14-OCT-85
55 GALLON
K6
WHC
GEN
2345Z
27
14-OCT-85
45.98

RHZ-103-A13561

14-OCT-85
.21
DM
AR
PPF
51.98
N
2336W
S
14-OCT-85
T
R
TRU
A13561
14-OCT-85
55 GALLON
K6
WHC
GEN
2345Z
27
14-OCT-85
24.98

OTP-LLW-00-01
OD
I

OTP-LLW-00-02
OD
I

OTP-LLW-00-03
OD
I

OTP-LLW-00-04
OD
I

OTP-LLW-WP-01
Y
Y
N
NRLLW1
WB
I

CONEXT_PKG_ID
CONEXT_COMPLIANT_FLAG
CONEXT_NDE_VER_FLAG
CONEXT_PROF_FLAG
CONEXT_PROF_ID
CONEXT_ROUTE_CD
CONEXT_USE_CD
CONEXT_VER_GROSS_WGT
CONEXT_VER_GROSS_WGT_FLAG

CONEXT_WRAP_STAT_CD

CONEXT_PKG_ID
CONEXT_COMPLIANT_FLAG
CONEXT_NDE_VER_FLAG
CONEXT_PROF_FLAG
CONEXT_PROF_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

CONEXT_PKG_ID
CONEXT_COMPLIANT_FLAG
CONEXT_NDE_VER_FLAG
CONEXT_PROF_FLAG
CONEXT_PROF_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

CONEXT_PKG_ID
CONEXT_CNTR_STATUS
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

CONEXT_PKG_ID
CONEXT_CNTR_STATUS
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

CONEXT_PKG_ID
CONEXT_USE_CD

CONEXT_PKG_ID
CONEXT_USE_CD

CONEXT_PKG_ID
CONEXT_NDA_DRUM_STATUS
CONEXT_PROF_ID
CONEXT_ROUTE_CD
CONEXT_USE_CD
CONEXT_VER_GROSS_WGT
CONEXT_VER_GROSS_WGT_FLAG

CONEXT_WRAP_STAT_CD

CONEXT_PKG_ID
CONEXT_NDA_DRUM_STATUS
CONEXT_PROF_ID
CONEXT_ROUTE_CD
CONEXT_USE_CD
CONEXT_VER_GROSS_WGT
CONEXT_VER_GROSS_WGT_FLAG

CONEXT_WRAP_STAT_CD

RDET_PKG_ID
RDET_BG_DOSE_RATE
RDET_HANDLING
RDET_RELOC_DT
RDET_RSWIMS_COUNT
RDET_SDAR_APPRV_NUM
RDET_SWIMS_CD
RDET_SWTYP_CD
RDET_SWTYP_GROUP
RDET_THERMAL_POWER
RDET_TOT_BG_C1
RDET_TOT_DE_C1

RDET_WASTE_CAT WC1
RDET_WASTE_MAKEUP F
RDET_WRAP_CAT SO

RDET_PKG_ID OTP-LLW-WP-02
RDET_BG_DOSE_RATE 50
RDET_HANDLING C
RDET_RELOC_DT 25-NOV-91
RDET_RSWIMS_COUNT 1
RDET_SDAR_APPRV_NUM 7-1A-6LM-1
RDET_SWIMS_CD NC
RDET_SWTYP_CD 2A
RDET_SWTYP_GROUP LLW
RDET_THERMAL_POWER 3.53
RDET_TOT_ALPHA_C1 0
RDET_TOT_BG_C1 0
RDET_TOT_DE_C1 0
RDET_TOT_PE_C1 0
RDET_TOT_PU_FGE 0
RDET_WASTE_MAKEUP F
RDET_WRAP_CAT CL

RDET_PKG_ID OTP-LLW-WP-03
RDET_BG_DOSE_RATE 7
RDET_HANDLING C
RDET_RELOC_DT 29-MAY-90
RDET_RSWIMS_COUNT 1
RDET_SDAR_APPRV_NUM 2A-1A-1A-0
RDET_SWIMS_CD CE
RDET_SWTYP_CD 2A
RDET_SWTYP_GROUP LLW
RDET_THERMAL_POWER 3.53
RDET_TOT_BG_C1 .01212
RDET_TOT_DE_C1 1
RDET_TOT_PE_C1 F
RDET_WASTE_MAKEUP F
RDET_WRAP_CAT DM

RDET_PKG_ID OTP-LLW-WP-04
RDET_ASSAY_DT 10-JUL-49
RDET_BG_DOSE_RATE 2
RDET_HANDLING C
RDET_RELOC_DT 10-AUG-93
RDET_RSWIMS_COUNT 1
RDET_SDAR_APPRV_NUM 4-1A-7VM-0
RDET_SWIMS_CD DS
RDET_SWTYP_CD 2A
RDET_SWTYP_GROUP LLW
RDET_THERMAL_POWER 3.53
RDET_TOT_ALPHA_C1 0
RDET_TOT_BG_C1 0
RDET_TOT_DE_C1 0
RDET_TOT_PE_C1 0
RDET_TOT_PU_FGE 0
RDET_WASTE_MAKEUP F
RDET_WRAP_CAT PB

RDET_PKG_ID RHZ-101-A13568
RDET_BG_DOSE_RATE 1
RDET_HANDLING C
RDET_RELOC_DT 15-MAY-97
RDET_RSWIMS_COUNT 1
RDET_SDAR_APPRV_NUM 1-1B-2C-0
RDET_SWIMS_CD DS
RDET_SWSR_NUM 860019
RDET_SWTYP_CD 1D
RDET_SWTYP_GROUP TRU
RDET_THERMAL_POWER .011454765
RDET_TOT_ALPHA_C1 .076259545
RDET_TOT_BG_C1 0
RDET_TOT_DE_C1 .086811043
RDET_TOT_PE_C1 .086799966
RDET_TOT_PU_FGE .950328438
RDET_WASTE_MAKEUP F

RDET_PKG_ID RHZ-103-A13561
RDET_BG_DOSE_RATE 1

RDET_HANDLING C
RDET_RELOC_DT 15-MAY-97
RDET_RSWIMS_COUNT 1
RDET_SDAR_APPRV_NUM 1-1B-2C-0
RDET_SWIMS_CD DS
RDET_SWSR_NUM 860021
RDET_SWTYP_CD 1D
RDET_SWTYP_GROUP TRU
RDET_THERMAL_POWER .011454765
RDET_TOT_ALPHA_C1 .076259545
RDET_TOT_BG_C1 0
RDET_TOT_DE_C1 .086811043
RDET_TOT_PE_C1 .086799966
RDET_TOT_PU_FGE .950328438
RDET_WASTE_MAKEUP F

RAD_PKG_ID OTP-LLW-WP-01
RAD_ISO_NUM 104
RAD_QTY .00000788

RAD_PKG_ID OTP-LLW-WP-01
RAD_ISO_NUM 18
RAD_QTY 11

RAD_PKG_ID OTP-LLW-WP-01
RAD_ISO_NUM 19
RAD_QTY .00000254

RAD_PKG_ID OTP-LLW-WP-01
RAD_ISO_NUM 202
RAD_QTY .0013

RAD_PKG_ID OTP-LLW-WP-01
RAD_ISO_NUM 203
RAD_QTY .19

RAD_PKG_ID OTP-LLW-WP-01
RAD_ISO_NUM 206
RAD_QTY 25

RAD_PKG_ID OTP-LLW-WP-01
RAD_ISO_NUM 86
RAD_QTY .00000254

RAD_PKG_ID OTP-LLW-WP-02
RAD_ISO_NUM 12
RAD_QTY .00033

RAD_PKG_ID OTP-LLW-WP-02
RAD_ISO_NUM 152
RAD_QTY .000005

RAD_PKG_ID OTP-LLW-WP-02
RAD_ISO_NUM 153
RAD_QTY .00018

RAD_PKG_ID OTP-LLW-WP-02
RAD_ISO_NUM 19
RAD_QTY .035405
RAD_UNKNOWN 0

RAD_PKG_ID OTP-LLW-WP-02
RAD_ISO_NUM 43
RAD_QTY .00045

RAD_PKG_ID OTP-LLW-WP-02
RAD_ISO_NUM 53
RAD_QTY .00014

RAD_PKG_ID OTP-LLW-WP-02
RAD_ISO_NUM 56
RAD_QTY .0003

RAD_PKG_ID OTP-LLW-WP-02
RAD_ISO_NUM 91
RAD_QTY .034

RAD_PKG_ID	OTP-LLW-WP-03	RAD_PU_FGE	.00129375
RAD_ISO_NUM	19	RAD_QTY	.0575
RAD_QTY	.01212		
RAD_UNKNOWN	.000324		
		RAD_PKG_ID	RHZ-101-A13568
RAD_PKG_ID	OTP-LLW-WP-03	RAD_ISO_NUM	98
RAD_ISO_NUM	3	RAD_ALPHA_CI	.0000133112
RAD_QTY	.00006	RAD_PE_CI	.010876488
		RAD_PU_FGE	.0126
		RAD_QTY	.0056
RAD_PKG_ID	OTP-LLW-WP-03		
RAD_ISO_NUM	8	RAD_PKG_ID	RHZ-101-A13568
RAD_QTY	.006	RAD_ISO_NUM	99
		RAD_ALPHA_CI	.0000007856
RAD_PKG_ID	OTP-LLW-WP-04	RAD_PE_CI	.00000071454474
RAD_ISO_NUM	13	RAD_PU_FGE	.0000015
RAD_QTY	.000004	RAD_QTY	.0002
RAD_PKG_ID	OTP-LLW-WP-04	RAD_PKG_ID	RHZ-103-A13561
RAD_ISO_NUM	19	RAD_ISO_NUM	100
RAD_QTY	.000233	RAD_ALPHA_CI	.0580886376
RAD_UNKNOWN	.0000007163	RAD_PE_CI	.05815044
		RAD_PU_FGE	.9364
RAD_PKG_ID	OTP-LLW-WP-04	RAD_QTY	.9364
RAD_ISO_NUM	31		
RAD_QTY	.000032	RAD_PKG_ID	RHZ-103-A13561
		RAD_ISO_NUM	19
RAD_PKG_ID	OTP-LLW-WP-04	RAD_QTY	.05
RAD_ISO_NUM	4	RAD_UNKNOWN	.05
RAD_QTY	.000083		
		RAD_PKG_ID	RHZ-103-A13561
RAD_PKG_ID	OTP-LLW-WP-04	RAD_ISO_NUM	26
RAD_ISO_NUM	40	RAD_ALPHA_CI	.00030897
RAD_QTY	.000002	RAD_PE_CI	.0003096
		RAD_PU_FGE	.0000016875
RAD_PKG_ID	OTP-LLW-WP-04	RAD_QTY	.00009
RAD_ISO_NUM	53		
RAD_QTY	.000001	RAD_PKG_ID	RHZ-103-A13561
		RAD_ISO_NUM	41
RAD_PKG_ID	OTP-LLW-WP-04	RAD_ALPHA_CI	.00479304
RAD_ISO_NUM	8	RAD_PE_CI	.00435272292
RAD_QTY	.000013	RAD_PU_FGE	.0000315
		RAD_QTY	.00028
RAD_PKG_ID	OTP-LLW-WP-04	RAD_PKG_ID	RHZ-103-A13561
RAD_ISO_NUM	9	RAD_ISO_NUM	97
RAD_QTY	.000001	RAD_ALPHA_CI	.0130548
		RAD_PE_CI	.01311
RAD_PKG_ID	RHZ-101-A13568	RAD_PU_FGE	.00129375
RAD_ISO_NUM	100	RAD_QTY	.0575
RAD_ALPHA_CI	.0580886376		
RAD_PE_CI	.05815044		
RAD_PU_FGE	.9364		
RAD_QTY	.9364		
		RAD_PKG_ID	RHZ-103-A13561
RAD_PKG_ID	RHZ-101-A13568	RAD_ISO_NUM	98
RAD_ISO_NUM	19	RAD_ALPHA_CI	.0000133112
RAD_QTY	.05	RAD_PE_CI	.010876488
RAD_UNKNOWN	.05	RAD_PU_FGE	.0126
		RAD_QTY	.0056
RAD_PKG_ID	RHZ-101-A13568	RAD_PKG_ID	RHZ-103-A13561
RAD_ISO_NUM	26	RAD_ISO_NUM	99
RAD_ALPHA_CI	.00030897	RAD_ALPHA_CI	.0000007856
RAD_PE_CI	.0003096	RAD_PE_CI	.00000071454474
RAD_PU_FGE	.0000016875	RAD_PU_FGE	.0000015
RAD_QTY	.00009	RAD_QTY	.0002
RAD_PKG_ID	RHZ-101-A13568	PHYS_PKG_ID	OTP-LLW-WP-01
RAD_ISO_NUM	41	PHYS_COMP_DESCR	DIRT/SOIL/DIATOMACEOUS
RAD_ALPHA_CI	.00479304		EARTH
RAD_PE_CI	.00435272292	PHYS_COMP_VOL_PCT	86
RAD_PU_FGE	.0000315	PHYS_COMP_WGT	115
RAD_QTY	.00028		
		PHYS_PKG_ID	OTP-LLW-WP-01
RAD_PKG_ID	RHZ-101-A13568	PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS
RAD_ISO_NUM	97	PHYS_COMP_VOL_PCT	.5
RAD_ALPHA_CI	.0130548	PHYS_COMP_WGT	0
RAD_PE_CI	.01311	PHYS_PKG_ID	OTP-LLW-WP-01

PHYS_COMP_DESCR	PAPER/CARDBOARD	PHYS_COMP_VOL_PCT	40
PHYS_COMP_VOL_PCT	9.5	PHYS_PKG_ID	RHZ-103-A13561
PHYS_COMP_WGT	5	PHYS_COMP_DESCR	PLASTIC/POLYURATHANE
		PHYS_COMP_VOL_PCT	30
PHYS_PKG_ID	OTP-LLW-WP-01	PHYS_PKG_ID	RHZ-103-A13561
PHYS_COMP_DESCR	PLASTIC/POLYURATHANE	PHYS_COMP_DESCR	RUBBER
PHYS_COMP_VOL_PCT	4	PHYS_COMP_VOL_PCT	15
PHYS_COMP_WGT	5		
PHYS_PKG_ID	OTP-LLW-WP-02	HDET_PKG_ID	OTP-LLW-WP-01
PHYS_COMP_DESCR	CONNEX PADS	HDET_CNTR STATUS	F
PHYS_COMP_VOL_PCT	93	HDET_DESIG_CD	RE
PHYS_COMP_WGT	127.5	HDET_DW_NUM	D008 D009
		HDET_WASTE_VOL	.208
PHYS_PKG_ID	OTP-LLW-WP-02	HDET_WASTE_STATUS	U
PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS		
PHYS_COMP_VOL_PCT	5	HDET_PKG_ID	OTP-LLW-WP-02
PHYS_COMP_WGT	.64	HDET_DESIG_CD	RD
		HDET_DW_NUM	D002
PHYS_PKG_ID	OTP-LLW-WP-02	HDET_WASTE_VOL	.21
PHYS_COMP_DESCR	WATER		
PHYS_COMP_VOL_PCT	2	HDET_PKG_ID	OTP-LLW-WP-04
PHYS_COMP_WGT	3.9	HDET_DESIG_CD	RE
		HDET_DW_NUM	D008 WT01
PHYS_PKG_ID	OTP-LLW-WP-03	HDET_WASTE_VOL	.07
PHYS_COMP_DESCR	CLOTH/RAGS/NYLON		
PHYS_COMP_VOL_PCT	10	HAZ_PKG_ID	OTP-LLW-WP-01
PHYS_COMP_WGT	14	HAZ_COMP_ID	7439-97-6
		HAZ_COMP_TEXT	MERCURY
PHYS_PKG_ID	OTP-LLW-WP-03	HAZ_COMP_WGT	.001
PHYS_COMP_DESCR	PAPER/CARDBOARD	HAZ_COMP_WGT_PCT	.0009
PHYS_COMP_VOL_PCT	30	HAZ_EPCRA_FLAG	N
PHYS_COMP_WGT	41		
PHYS_PKG_ID	OTP-LLW-WP-03	HAZ_PKG_ID	OTP-LLW-WP-01
PHYS_COMP_DESCR	PLASTIC/POLYURATHANE	HAZ_COMP_ID	TEMP1985
PHYS_COMP_VOL_PCT	60	HAZ_COMP_TEXT	LEAD
PHYS_COMP_WGT	81	HAZ_COMP_WGT	.085
		HAZ_COMP_WGT_PCT	.068
PHYS_PKG_ID	OTP-LLW-WP-04	HAZ_EPCRA_FLAG	N
PHYS_COMP_DESCR	CLOTH/RAGS/NYLON		
PHYS_COMP_VOL_PCT	48	HAZ_PKG_ID	OTP-LLW-WP-02
PHYS_COMP_WGT	13.6	HAZ_COMP_ID	TEMP2091
		HAZ_COMP_TEXT	LIQUID WASTE
PHYS_PKG_ID	OTP-LLW-WP-04	HAZ_COMP_WGT	.6
PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS		
PHYS_COMP_VOL_PCT	5	HAZ_PKG_ID	OTP-LLW-WP-02
PHYS_COMP_WGT	.64	HAZ_COMP_ID	TEMP3413
		HAZ_COMP_TEXT	SODIUM CHLORIDE
PHYS_PKG_ID	OTP-LLW-WP-04	HAZ_COMP_WGT	.04
PHYS_COMP_DESCR	PLASTIC/POLYURATHANE		
PHYS_COMP_VOL_PCT	20	HAZ_PKG_ID	OTP-LLW-WP-04
PHYS_COMP_WGT	4.1	HAZ_COMP_ID	TEMP0440
		HAZ_COMP_TEXT	ACID
PHYS_PKG_ID	RHZ-101-A13568	HAZ_COMP_WGT	1.5
PHYS_COMP_DESCR	CLOTH/RAGS/NYLON	HAZ_COMP_WGT_PCT	5
PHYS_COMP_VOL_PCT	15		
PHYS_PKG_ID	RHZ-101-A13568	HAZ_PKG_ID	OTP-LLW-WP-04
PHYS_COMP_DESCR	PAPER/CARDBOARD	HAZ_COMP_ID	TEMP1985
PHYS_COMP_VOL_PCT	30	HAZ_COMP_TEXT	LEAD
		HAZ_COMP_WGT	8.9
PHYS_PKG_ID	RHZ-101-A13568	HAZ_COMP_WGT_PCT	28
PHYS_COMP_DESCR	PLASTIC/POLYURATHANE		
PHYS_COMP_VOL_PCT	40	HAZ_PKG_ID	OTP-LLW-WP-04
PHYS_PKG_ID	RHZ-101-A13568	HAZ_COMP_ID	TEMP2628
PHYS_COMP_DESCR	RUBBER	HAZ_COMP_TEXT	OIL
PHYS_COMP_VOL_PCT	15	HAZ_COMP_WGT	1.9
		HAZ_COMP_WGT_PCT	6
PHYS_PKG_ID	RHZ-103-A13561	HAZ_PKG_ID	OTP-LLW-WP-04
PHYS_COMP_DESCR	CLOTH/RAGS/NYLON	HAZ_COMP_ID	TEMP3530
PHYS_COMP_VOL_PCT	15	HAZ_COMP_TEXT	SOLVENTS
		HAZ_COMP_WGT	2.1
PHYS_PKG_ID	RHZ-103-A13561	HAZ_COMP_WGT_PCT	6
PHYS_COMP_DESCR	PAPER/CARDBOARD	PDW_PKG_ID	OTP-LLW-WP-01

PDW_NUM
PDW_LANBAN
PDW_SORT_ORDER

PDW_PKG_ID
PDW_NUM
PDW_LANBAN
PDW_SORT_ORDER

NDA_PKG_ID
NDA_DT
NDA_ASSAY_NUM
NDA_FUT_EVAL_REQD
NDA_ISO_TOT
NDA_PROF_ID
NDA_RVST_FLAG
NDA_SWTYP_GROUP
NDA_THERMAL_POWER
NDA_TMU_ALPHA_CI
NDA_TMU_THERMAL_POWER
NDA_TOT_ALPHA_CI
NDA_WASTE_CAT

NDA_PKG_ID
NDA_DT
NDA_ASSAY_NUM
NDA_FUT_EVAL_REQD
NDA_ISO_TOT
NDA_PROF_ID
NDA_RVST_FLAG
NDA_SWTYP_GROUP
NDA_THERMAL_POWER
NDA_TMU_ALPHA_CI
NDA_TMU_THERMAL_POWER
NDA_TOT_ALPHA_CI
NDA_WASTE_CAT

NDA_PKG_ID
NDA_DT
NDA_ASSAY_NUM
NDA_FUT_EVAL_REQD
NDA_ISO_TOT
NDA_PROF_ID
NDA_RVST_FLAG
NDA_SWTYP_GROUP
NDA_THERMAL_POWER
NDA_TMU_ALPHA_CI
NDA_TMU_THERMAL_POWER
NDA_TOT_ALPHA_CI
NDA_WASTE_CAT

NDA_PKG_ID
NDA_DT
NDA_ASSAY_NUM
NDA_FUT_EVAL_REQD
NDA_ISO_TOT
NDA_PROF_ID
NDA_RVST_FLAG
NDA_SWTYP_GROUP
NDA_THERMAL_POWER
NDA_TMU_ALPHA_CI
NDA_TMU_THERMAL_POWER
NDA_TOT_ALPHA_CI
NDA_WASTE_CAT

NDAISO_PKG_ID
NDAISO_ASSAY_NUM
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

D008
Y
808

OTP-LLW-WP-01
D009
Y
809

OTP-LLW-WP-01
12-SEP-96
258

N
5
NRLLW1
N
LLW
3.5
0
.035
0
WC1

OTP-LLW-WP-02
12-SEP-96
265

N
1
NRLLW1
N
LLW
3.53
0
.0353
0
GTWC3

OTP-LLW-WP-03
12-SEP-96
262

N
2
NRLLW1
N
LLW
5.45
0
.0545
0
GTWC3

OTP-LLW-WP-04
12-SEP-96
261

N
4
NRLLW1
N
LLW
5.45
0
.0545
0
GTWC3

OTP-LLW-WP-01
258
K-60

258
.00000254
.0000000254
T
ACT
B
NO
THIS IS ONLY A TEST

NDAISO_PKG_ID
NDAISO_ASSAY_NUM
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

NDAISO_PKG_ID
NDAISO_ASSAY_NUM
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

NDAISO_PKG_ID
NDAISO_ASSAY_NUM
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

NDAISO_PKG_ID
NDAISO_ASSAY_NUM
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

NDAISO_PKG_ID
NDAISO_ASSAY_NUM
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

NDAISO_PKG_ID
NDAISO_ASSAY_NUM
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

NDAISO_PKG_ID
NDAISO_ASSAY_NUM
NDAISO_NAME
NDAISO_ASSAY_NUM

OTP-LLW-WP-01
258
TH-232
258
11
.11
T
ACT
B
NO
THIS IS ONLY A TEST

OTP-LLW-WP-01
258
U-234
258
.0013
.000013
T
ACT
B
NO
THIS IS ONLY A TEST

OTP-LLW-WP-01
258
U-235
258
.19
.0019
T
ACT
B
NO
THIS IS ONLY A TEST

OTP-LLW-WP-01
258
U-238
258
25
.25
T
ACT
B
NO
THIS IS ONLY A TEST

OTP-LLW-WP-02
265
NA-22
265
.0003
.000003
T
ACT
A
NO
THIS IS ONLY A TEST

OTP-LLW-WP-03
262
CS-137
262
.006
.00006
T
ACT
B
NO
THIS IS ONLY A TEST

OTP-LLW-WP-03
262
SR-90
262

NDAISO_QTY .00006
 NDAISO_QTY_TMU .0000006
 NDAISO_CONFIDENCE_CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE B
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-04
 NDAISO_ASSAY_NUM 261
 NDAISO_NAME CO-60
 NDAISO_ASSAY_NUM 261
 NDAISO_QTY .000004
 NDAISO_QTY_TMU .0000004
 NDAISO_CONFIDENCE_CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE A
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-04
 NDAISO_ASSAY_NUM 261
 NDAISO_NAME CS-137
 NDAISO_ASSAY_NUM 261
 NDAISO_QTY .000013
 NDAISO_QTY_TMU .00000013
 NDAISO_CONFIDENCE_CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE A
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-04
 NDAISO_ASSAY_NUM 261
 NDAISO_NAME EU-154
 NDAISO_ASSAY_NUM 261
 NDAISO_QTY .000002
 NDAISO_QTY_TMU .00000002
 NDAISO_CONFIDENCE_CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE A
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-04
 NDAISO_ASSAY_NUM 261
 NDAISO_NAME EU-155
 NDAISO_ASSAY_NUM 261
 NDAISO_QTY .000032
 NDAISO_QTY_TMU .00000032
 NDAISO_CONFIDENCE_CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE A
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDE_PKG_ID OTP-LLW-WP-01
 NDE_DT 12-SEP-96
 NDE_COMMENTS OTP-LLW-WP-01 1ST IMAGE COMMENTS

NDE_OPER_ID USER1
 NDE_VDISK_FILE WP05X
 NDE_VDISK_NUM P22V1
 NDE_VTAPE_NUM P22T1
 NDE_VTAPE_START 200

NDE_PKG_ID OTP-LLW-WP-01
 NDE_DT 12-SEP-96
 NDE_COMMENTS OTP-LLW-WP-01 2ND IMAGE COMMENTS

NDE_OPER_ID USER1
 NDE_VDISK_FILE WP05Y
 NDE_VDISK_NUM P22V1
 NDE_VTAPE_NUM P22T1
 NDE_VTAPE_START 250

NDE_PKG_ID
 NDE_DT
 NDE_COMMENTS
 NDE_OPER_ID
 NDE_VDISK_FILE
 NDE_VDISK_NUM
 NDE_VTAPE_NUM
 NDE_VTAPE_START

NDE_PKG_ID
 NDE_DT
 NDE_COMMENTS
 NDE_OPER_ID
 NDE_VDISK_FILE
 NDE_VDISK_NUM
 NDE_VTAPE_NUM
 NDE_VTAPE_START

NDE_PKG_ID
 NDE_DT
 NDE_COMMENTS
 NDE_OPER_ID
 NDE_VDISK_FILE
 NDE_VDISK_NUM
 NDE_VTAPE_NUM
 NDE_VTAPE_START

NDE_PKG_ID
 NDE_DT
 NDE_COMMENTS
 NDE_OPER_ID
 NDE_VDISK_FILE
 NDE_VDISK_NUM
 NDE_VTAPE_NUM
 NDE_VTAPE_START

NDE_PKG_ID
 NDE_DT
 NDE_COMMENTS
 NDE_OPER_ID
 NDE_VDISK_FILE
 NDE_VDISK_NUM
 NDE_VTAPE_NUM
 NDE_VTAPE_START

NDE_PKG_ID
 NDE_DT
 NDE_COMMENTS
 NDE_OPER_ID
 NDE_VDISK_FILE
 NDE_VDISK_NUM
 NDE_VTAPE_NUM
 NDE_VTAPE_START

CONLOC_PKG_ID
 CONLOC_DT
 CONLOC_LOCN_ID

CONLOC_PKG_ID
 CONLOC_DT
 CONLOC_LOCN_ID

CONLOC_PKG_ID
 CONLOC_DT
 CONLOC_LOCN_ID

CONLOC_PKG_ID
 CONLOC_DT
 CONLOC_LOCN_ID

OTP-LLW-WP-02
 12-SEP-96
 OTP-LLW-WP-02 1ST IMAGE COMMENTS
 USER1
 WP11X
 P22V1
 P22T1
 200

OTP-LLW-WP-02
 12-SEP-96
 OTP-LLW-WP-02 2ND IMAGE COMMENTS
 USER1
 WP11Y
 P22V1
 P22T1
 250

OTP-LLW-WP-03
 12-SEP-96
 OTP-LLW-WP-03 1ST IMAGE COMMENTS
 USER1
 WP04X
 P22V1
 P22T1
 200

OTP-LLW-WP-03
 12-SEP-96
 OTP-LLW-WP-03 2ND IMAGE COMMENTS
 USER1
 WP04Y
 P22V1
 P22T1
 250

OTP-LLW-WP-04
 12-SEP-96
 OTP-LLW-WP-04 1ST IMAGE COMMENTS
 USER1
 WP08X
 P22V1
 P22T1
 200

OTP-LLW-WP-04
 12-SEP-96
 OTP-LLW-WP-04 2ND IMAGE COMMENTS
 USER1
 WP08Y
 P22V1
 P22T1
 250

OTP-LLW-00-01
 15-JAN-97
 AIRCVYR_A3

OTP-LLW-00-02
 15-JAN-97
 AIRCVYR_A3

OTP-LLW-00-03
 15-JAN-97
 AIRCVYR_A3

OTP-LLW-00-04
 15-JAN-97
 AIRCVYR_A3

CONLOC_PKG_ID	OTP-LLWR-TD-01
CONLOC_DT	05-FEB-97
CONLOC_LOCN_ID	RWM_CRSL
CONLOC_PKG_ID	OTP-LLWR-TD-02
CONLOC_DT	05-FEB-97
CONLOC_LOCN_ID	RWM_CRSL
CONLOC_PKG_ID	OTP6-97-300001
CONLOC_DT	04-FEB-97
CONLOC_LOCN_ID	SAMPLE_MGT
CONLOC_PKG_ID	OTP6-97-400001
CONLOC_DT	04-FEB-97
CONLOC_LOCN_ID	SAMPLE_MGT
CONLOC_PKG_ID	RHZ-101-A13568
CONLOC_DT	09-AUG-27
CONLOC_LOCN_ID	AGVPANC_A
CONLOC_PKG_ID	RHZ-103-A13561
CONLOC_DT	09-AUG-27
CONLOC_LOCN_ID	INFDCVYRW
CONR_FROM_PKG_ID	OTP-LLW-WP-01
CONR_TO_PKG_ID	OTP-LLW-OD-01
CONR_DT	05-JAN-97
CONR_REL_CD	M
CONR_FROM_PKG_ID	OTP-LLW-WP-02
CONR_TO_PKG_ID	OTP-LLW-OD-02
CONR_DT	05-JAN-97
CONR_REL_CD	M
CONR_FROM_PKG_ID	OTP-LLW-WP-03
CONR_TO_PKG_ID	OTP-LLW-OD-03
CONR_DT	05-JAN-97
CONR_REL_CD	M
CONR_FROM_PKG_ID	OTP-LLW-WP-04
CONR_TO_PKG_ID	OTP-LLW-OD-04
CONR_DT	05-JAN-97
CONR_REL_CD	M
RADMAT_ID	F
RADMAT_DESCR	WRAP 1 FACILITY
RADMAT_LIMIT	100
RADMAT_RAD_TOT	10
RADMAT_UNITS	CI
RADMAT_ALARM	N
RADMAT_ID	R
RADMAT_DESCR	TRU RWM GLOVEBOX
RADMAT_LIMIT	200
RADMAT_RAD_TOT	10
RADMAT_UNITS	FGE
RADMAT_ALARM	N
RADMAT_ID	T
RADMAT_DESCR	TRU GLOVEBOX
RADMAT_LIMIT	200
RADMAT_RAD_TOT	10
RADMAT_UNITS	FGE
RADMAT_ALARM	N

CASE 1A.813

8/13/97

DMS DATABASE FOLLOWING THE LLW GLOVEBOX OTP SORTING OF OTP-LLW-WP-01 (CASE 1)

CON_PKG_ID OTP-LLW-OD-01
 CON_CNTP_CD DM
 CON_PKG_STATUS 85 GALLON
 CON_SIZE_DESCR 31
 CON_TARE_WGT

CON_PKG_ID OTP-LLW-OD-02
 CON_CNTP_CD DM
 CON_LOCN_FACIL_ID 2336W
 CON_PKG_STATUS M
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON_PKG_ID OTP-LLW-OD-03
 CON_CNTP_CD DM
 CON_LOCN_FACIL_ID 2336W
 CON_PKG_STATUS M
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON_PKG_ID OTP-LLW-OD-04
 CON_CNTP_CD DM
 CON_LOCN_FACIL_ID 2336W
 CON_PKG_STATUS M
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON_PKG_ID OTP-LLW-WP-01
 CON_ACCUM_DT 19-OCT-93
 CON_CHEM_NATURE_CD I
 CON_CNTR_VOL .21
 CON_CNTP_CD DM
 CON_GENER_WASTE_DESCR LOW LEVEL WASTE
 CON_GGRP_ID ANL
 CON_GROSS_WGT 152.7
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 19-OCT-93
 CON_PKG_STATUS R
 CON_PWTYP_CD M
 CON_SAMPLE_FLAG Y
 CON_SCAT_CD OMW
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD TH233
 CON_SRCE_CMPNY_ID ANL
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID ARGON
 CON_TARE_WGT 27.7
 CON_TSD_ACCEPT_DT 27-FEB-95
 CON_WASTE_WGT 125

CON_PKG_ID OTP-LLW-WP-02
 CON_ACCUM_DT 10-JUL-91
 CON_CHEM_NATURE_CD IO
 CON_CNTR_VOL .21
 CON_CNTP_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 170.1
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 10-JUL-91
 CON_PKG_STATUS T
 CON_PWTYP_CD M
 CON_SAMPLE_FLAG N
 CON_SCAT_CD FLC
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD WM4G0
 CON_SRCE_CMPNY_ID WHC
 CON_SRCE_CMPNY_TYPE GEN

CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 10-JUL-91
 CON_WASTE_WGT 139.34

CON_PKG_ID OTP-LLW-WP-03
 CON_ACCUM_DT 29-MAY-90
 CON_CNTR_VOL .21
 CON_CNTP_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 163.02
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 29-MAY-90
 CON_PKG_STATUS T
 CON_PWTYP_CD R
 CON_SAMPLE_FLAG N
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD B80545
 CON_SRCE_CMPNY_ID PNL
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 29-MAY-90
 CON_WASTE_WGT 136

CON_PKG_ID OTP-LLW-WP-04
 CON_ACCUM_DT 05-JUL-90
 CON_CNTR_VOL .21
 CON_CNTP_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 358.34
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 05-JUL-90
 CON_PKG_STATUS T
 CON_PWTYP_CD M
 CON_SAMPLE_FLAG N
 CON_SCAT_CD OMW
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD B3314
 CON_SRCE_CMPNY_ID WHC
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 05-JUL-90
 CON_WASTE_WGT 32.1

CON_PKG_ID OTP-LLWR-TD-01
 CON_CNTP_CD DM
 CON_LOCN_FACIL_ID 2336W
 CON_PKG_STATUS G
 CON_SCAT_CD ANY
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON_PKG_ID OTP-LLWR-TD-02
 CON_CNTP_CD DM
 CON_LOCN_FACIL_ID 2336W
 CON_PKG_STATUS G
 CON_SCAT_CD ANY
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON_PKG_ID OTP6-97-300001

CON_PKG_ID OTP6-97-400001

CON_PKG_DT 13-AUG-27
 CON_PKG_STATUS G
 CON_PKG_ID PUCK278
 CON_ACCUM_DT 19-OCT-93
 CON_CHEM_NATURE_CD I
 CON_CNTR_VOL .21
 CON_CNTP_CD DM
 CON_GENER_WASTE_DESCR LOW LEVEL WASTE
 CON_GGRP_ID ANL
 CON_GROSS_WGT 152.7
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 19-OCT-93
 CON_PKG_STATUS R
 CON_PWTYP_CD M
 CON_SAMPLE_FLAG Y
 CON_SCAT_CD OMW
 CON_SEC_PKG_ID OTP-LLW-WP-01
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD TH233
 CON_SRCE_CMPNY_ID ANL
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID ARGON
 CON_TARE_WGT 27.7
 CON_TSD_ACCEPT_DT 27-FEB-95
 CON_WASTE_WGT 125

CON_PKG_ID PUCK279
 CON_CNTP_CD DM
 CON_PKG_STATUS R
 CON_SEC_PKG_ID OTP-LLW-OD-01
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON_PKG_ID RHZ-101-A13568
 CON_ACCUM_DT 14-OCT-85
 CON_CNTR_VOL .21
 CON_CNTP_CD DM
 CON_DATA_QUAL_CD AR
 CON_GGRP_ID PFP
 CON_GROSS_WGT 72.98
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 14-OCT-85
 CON_PKG_STATUS T
 CON_PWTYP_CD R
 CON_SCAT_CD TRU
 CON_SEC_PKG_ID A13568
 CON_SHIP_DT 14-OCT-85
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD K6
 CON_SRCE_CMPNY_ID WHC
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 2345Z
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 14-OCT-85
 CON_WASTE_WGT 45.98

CON_PKG_ID RHZ-103-A13561
 CON_ACCUM_DT 14-OCT-85
 CON_CNTR_VOL .21
 CON_CNTP_CD DM
 CON_DATA_QUAL_CD AR
 CON_GGRP_ID PFP
 CON_GROSS_WGT 51.98
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 14-OCT-85
 CON_PKG_STATUS T
 CON_PWTYP_CD R
 CON_SCAT_CD TRU
 CON_SEC_PKG_ID A13561
 CON_SHIP_DT 14-OCT-85

CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD K6
 CON_SRCE_CMPNY_ID WHC
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 2345Z
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 14-OCT-85
 CON_WASTE_WGT 24.98

CONEXT_PKG_ID OTP-LLW-OD-01
 CONEXT_USE_CD WV
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID OTP-LLW-OD-02
 CONEXT_USE_CD OD
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID OTP-LLW-OD-03
 CONEXT_USE_CD OD
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID OTP-LLW-OD-04
 CONEXT_USE_CD OD
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID OTP-LLW-WP-01
 CONEXT_COMPLIANT_FLAG Y
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_USE_CD WV
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID OTP-LLW-WP-02
 CONEXT_COMPLIANT_FLAG N
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_ROUTE_CD 3
 CONEXT_USE_CD WP
 CONEXT_VER_GROSS_WGT 171.1
 CONEXT_VER_GROSS_WGT_FLAG Y
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID OTP-LLW-WP-03
 CONEXT_COMPLIANT_FLAG Y
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_USE_CD WP
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID OTP-LLW-WP-04
 CONEXT_COMPLIANT_FLAG N
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_USE_CD WP
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID OTP-LLWR-TD-01
 CONEXT_CNTR_STATUS E
 CONEXT_USE_CD TD
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID OTP-LLWR-TD-02
 CONEXT_CNTR_STATUS E
 CONEXT_USE_CD TD
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID OTP6-97-300001
 CONEXT_USE_CD PP

CONEXT_PKG_ID OTP6-97-400001
 CONEXT_USE_CD TP

CONEXT_PKG_ID PUCK278
 CONEXT_COMPLIANT_FLAG Y
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_USE_CD WP
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID PUCK279
 CONEXT_USE_CD EC
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID RHZ-101-A13568
 CONEXT_NDA_DRUM_STATUS PROC
 CONEXT_PROF_ID TEST
 CONEXT_RADMAT_ID F
 CONEXT_ROUTE_CD 1
 CONEXT_TO_PU_FGE .141960683549683
 CONEXT_USE_CD WP
 CONEXT_VER_GROSS_WGT 66.4
 CONEXT_VER_GROSS_WGT_FLAG Y
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID RHZ-103-A13561
 CONEXT_NDA_DRUM_STATUS PROC
 CONEXT_PROF_ID TEST
 CONEXT_RADMAT_ID F
 CONEXT_ROUTE_CD 1
 CONEXT_TO_PU_FGE .84683609729712
 CONEXT_USE_CD WP
 CONEXT_VER_GROSS_WGT 48.35
 CONEXT_VER_GROSS_WGT_FLAG Y
 CONEXT_WRAP_STAT_CD I

RDET_PKG_ID OTP-LLW-WP-01
 RDET_BG_DOSE_RATE .1
 RDET_HANDLING C
 RDET_RELOC_DT 01-SEP-96
 RDET_RSWIMS_COUNT 1
 RDET_SDAR_APPRV_NUM 60-1R-3YM-0401
 RDET_SWIMS_CD DD
 RDET_SWTYP_CD 2A
 RDET_SWTYP_GROUP LLW
 RDET_THERMAL_POWER 3.53
 RDET_TOT_BG_CI .00000254
 RDET_TOT_DE_CI .0000097
 RDET_WASTE_CAT WC1
 RDET_WASTE_MAKEUP F
 RDET_WRAP_CAT SO

RDET_PKG_ID OTP-LLW-WP-02
 RDET_BG_DOSE_RATE 50
 RDET_HANDLING C
 RDET_RELOC_DT 25-NOV-91
 RDET_RSWIMS_COUNT 1
 RDET_SDAR_APPRV_NUM 7-1A-6LM-1
 RDET_SWIMS_CD NC
 RDET_SWTYP_CD 2A
 RDET_SWTYP_GROUP LLW
 RDET_THERMAL_POWER 3.53
 RDET_TOT_ALPHA_CI 0
 RDET_TOT_BG_CI 0
 RDET_TOT_DE_CI 0
 RDET_TOT_PE_CI 0
 RDET_TOT_PU_FGE 0
 RDET_WASTE_MAKEUP F
 RDET_WRAP_CAT CL

RDET_PKG_ID OTP-LLW-WP-03
 RDET_BG_DOSE_RATE 7
 RDET_HANDLING C
 RDET_RELOC_DT 29-MAY-90
 RDET_RSWIMS_COUNT 1
 RDET_SDAR_APPRV_NUM 2A-1A-1A-0
 RDET_SWIMS_CD CE

RDET_SWTYP_CD 2A
 RDET_SWTYP_GROUP LLW
 RDET_THERMAL_POWER 3.53
 RDET_TOT_BG_CI .01212
 RDET_TOT_DE_CI 1
 RDET_WASTE_MAKEUP F
 RDET_WRAP_CAT DM

RDET_PKG_ID OTP-LLW-WP-04
 RDET_ASSAY_DT 10-JUL-49
 RDET_BG_DOSE_RATE 2
 RDET_HANDLING C
 RDET_RELOC_DT 10-AUG-93
 RDET_RSWIMS_COUNT 1
 RDET_SDAR_APPRV_NUM 4-1A-7VM-0
 RDET_SWIMS_CD DS
 RDET_SWTYP_CD 2A
 RDET_SWTYP_GROUP LLW
 RDET_THERMAL_POWER 3.53
 RDET_TOT_ALPHA_CI 0
 RDET_TOT_BG_CI 0
 RDET_TOT_DE_CI 0
 RDET_TOT_PE_CI 0
 RDET_TOT_PU_FGE 0
 RDET_WASTE_MAKEUP F
 RDET_WRAP_CAT PB

RDET_PKG_ID PUCK278
 RDET_BG_DOSE_RATE .1
 RDET_HANDLING C
 RDET_RELOC_DT 01-SEP-96
 RDET_RSWIMS_COUNT 1
 RDET_SDAR_APPRV_NUM 60-1R-3YM-0401
 RDET_SWIMS_CD DD
 RDET_SWTYP_CD 2A
 RDET_SWTYP_GROUP LLW
 RDET_THERMAL_POWER 3.53
 RDET_TOT_BG_CI .00000254
 RDET_TOT_DE_CI .0000097
 RDET_WASTE_CAT WC1
 RDET_WASTE_MAKEUP F
 RDET_WRAP_CAT SO

RDET_PKG_ID RHZ-101-A13568
 RDET_BG_DOSE_RATE 1
 RDET_HANDLING C
 RDET_RELOC_DT 15-MAY-97
 RDET_RSWIMS_COUNT 1
 RDET_SDAR_APPRV_NUM 1-1B-2C-0
 RDET_SWIMS_CD DS
 RDET_SWSDR_NUM 860019
 RDET_SWTYP_CD 1D
 RDET_SWTYP_GROUP TRU
 RDET_THERMAL_POWER .011454765
 RDET_TOT_ALPHA_CI .076259545
 RDET_TOT_BG_CI 0
 RDET_TOT_DE_CI .086811043
 RDET_TOT_PE_CI .086799966
 RDET_TOT_PU_FGE .950328438
 RDET_WASTE_MAKEUP F

RDET_PKG_ID RHZ-103-A13561
 RDET_BG_DOSE_RATE 1
 RDET_HANDLING C
 RDET_RELOC_DT 15-MAY-97
 RDET_RSWIMS_COUNT 1
 RDET_SDAR_APPRV_NUM 1-1B-2C-0
 RDET_SWIMS_CD DS
 RDET_SWSDR_NUM 860021
 RDET_SWTYP_CD 1D
 RDET_SWTYP_GROUP TRU
 RDET_THERMAL_POWER .011454765
 RDET_TOT_ALPHA_CI .076259545
 RDET_TOT_BG_CI 0
 RDET_TOT_DE_CI .086811043
 RDET_TOT_PE_CI .086799966
 RDET_TOT_PU_FGE .950328438

RDET_WASTE_MAKEUP

F

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-01
104
.00000788RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-01
18
11RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-01
19
.00000254RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-01
202
.0013RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-01
203
.19RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-01
206
25RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-01
86
.00000254RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-02
12
.00033RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-02
152
.000005RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-02
153
.00018RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY
RAD_UNKNOWNOTP-LLW-WP-02
19
.035405
0RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-02
43
.00045RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-02
53
.00014RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-02
56
.0003RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-02
91
.034RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY
RAD_UNKNOWNOTP-LLW-WP-03
19
.01212
.000324RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-03
3
.00006RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-03
8
.006

RAD_PKG_ID

OTP-LLW-WP-04

RAD_ISO_NUM
RAD_QTY13
.000004RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY
RAD_UNKNOWNOTP-LLW-WP-04
19
.000233
.0000007163RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-04
31
.000032RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-04
4
.000083RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-04
40
.000002RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-04
53
.000001RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-04
8
.000013RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYOTP-LLW-WP-04
9
.000001RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYPUCK278
104
.00000788RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYPUCK278
18
11RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYPUCK278
19
.00000254RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYPUCK278
202
.0013RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYPUCK278
203
.19RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYPUCK278
206
25RAD_PKG_ID
RAD_ISO_NUM
RAD_QTYPUCK278
86
.00000254RAD_PKG_ID
RAD_ISO_NUM
RAD_ALPHA_CI
RAD_PE_CI
RAD_PU_FGE
RAD_QTYRHZ-101-A13568
100
.0580886376
.05815044
.9364
.9364RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY
RAD_UNKNOWNRHZ-101-A13568
19
.05
.05RAD_PKG_ID
RAD_ISO_NUM
RAD_ALPHA_CI
RAD_PE_CI
RAD_PU_FGERHZ-101-A13568
26
.00030897
.0003096
.0000016875

RAD_QTY	.00009	PHYS_PKG_ID	OTP-LLW-WP-01
RAD_PKG_ID	RHZ-101-A13568	PHYS_COMP_DESCR	DIRT/SOIL/DIATOMACEOUS
RAD_ISO_NUM	41	PHYS_COMP_VOL_PCT	EARTH
RAD_ALPHA_CI	.00479304	PHYS_COMP_WGT	86
RAD_PE_CI	.00435272292		115
RAD_PU_FGE	.0000315	PHYS_PKG_ID	OTP-LLW-WP-01
RAD_QTY	.00028	PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS
		PHYS_COMP_VOL_PCT	.5
		PHYS_COMP_WGT	0
RAD_PKG_ID	RHZ-101-A13568	PHYS_PKG_ID	OTP-LLW-WP-01
RAD_ISO_NUM	97	PHYS_COMP_DESCR	PAPER/CARDBOARD
RAD_ALPHA_CI	.0130548	PHYS_COMP_VOL_PCT	9.5
RAD_PE_CI	.01311	PHYS_COMP_WGT	5
RAD_PU_FGE	.00129375		
RAD_QTY	.0575		
		PHYS_PKG_ID	OTP-LLW-WP-01
RAD_PKG_ID	RHZ-101-A13568	PHYS_COMP_DESCR	PLASTIC/POLYURATHANE
RAD_ISO_NUM	98	PHYS_COMP_VOL_PCT	4
RAD_ALPHA_CI	.0000133112	PHYS_COMP_WGT	5
RAD_PE_CI	.010876488		
RAD_PU_FGE	.0126		
RAD_QTY	.0056		
		PHYS_PKG_ID	OTP-LLW-WP-02
RAD_PKG_ID	RHZ-101-A13568	PHYS_COMP_DESCR	CONWEB PADS
RAD_ISO_NUM	99	PHYS_COMP_VOL_PCT	93
RAD_ALPHA_CI	.0000007856	PHYS_COMP_WGT	127.5
RAD_PE_CI	.00000071454474		
RAD_PU_FGE	.00000015	PHYS_PKG_ID	OTP-LLW-WP-02
RAD_QTY	.0002	PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS
		PHYS_COMP_VOL_PCT	5
		PHYS_COMP_WGT	.64
RAD_PKG_ID	RHZ-103-A13561	PHYS_PKG_ID	OTP-LLW-WP-02
RAD_ISO_NUM	100	PHYS_COMP_DESCR	WATER
RAD_ALPHA_CI	.0580886376	PHYS_COMP_VOL_PCT	2
RAD_PE_CI	.05815044	PHYS_COMP_WGT	3.9
RAD_PU_FGE	.9364		
RAD_QTY	.9364		
		PHYS_PKG_ID	OTP-LLW-WP-03
RAD_PKG_ID	RHZ-103-A13561	PHYS_COMP_DESCR	CLOTH/RAGS/NYLON
RAD_ISO_NUM	19	PHYS_COMP_VOL_PCT	10
RAD_QTY	.05	PHYS_COMP_WGT	14
RAD_UNKNOWN	.05		
		PHYS_PKG_ID	OTP-LLW-WP-03
RAD_PKG_ID	RHZ-103-A13561	PHYS_COMP_DESCR	PAPER/CARDBOARD
RAD_ISO_NUM	26	PHYS_COMP_VOL_PCT	30
RAD_ALPHA_CI	.00030897	PHYS_COMP_WGT	41
RAD_PE_CI	.0003096		
RAD_PU_FGE	.0000016875	PHYS_PKG_ID	OTP-LLW-WP-03
RAD_QTY	.00009	PHYS_COMP_DESCR	PLASTIC/POLYURATHANE
		PHYS_COMP_VOL_PCT	60
		PHYS_COMP_WGT	81
RAD_PKG_ID	RHZ-103-A13561	PHYS_PKG_ID	OTP-LLW-WP-04
RAD_ISO_NUM	41	PHYS_COMP_DESCR	CLOTH/RAGS/NYLON
RAD_ALPHA_CI	.00479304	PHYS_COMP_VOL_PCT	48
RAD_PE_CI	.00435272292	PHYS_COMP_WGT	13.6
RAD_PU_FGE	.0000315		
RAD_QTY	.00028		
		PHYS_PKG_ID	OTP-LLW-WP-04
RAD_PKG_ID	RHZ-103-A13561	PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS
RAD_ISO_NUM	97	PHYS_COMP_VOL_PCT	5
RAD_ALPHA_CI	.0130548	PHYS_COMP_WGT	.64
RAD_PE_CI	.01311		
RAD_PU_FGE	.00129375	PHYS_PKG_ID	OTP-LLW-WP-04
RAD_QTY	.0575	PHYS_COMP_DESCR	PLASTIC/POLYURATHANE
		PHYS_COMP_VOL_PCT	20
		PHYS_COMP_WGT	4.1
RAD_PKG_ID	RHZ-103-A13561	PHYS_PKG_ID	PUCK278
RAD_ISO_NUM	98	PHYS_COMP_DESCR	DIRT/SOIL/DIATOMACEOUS
RAD_ALPHA_CI	.0000133112	PHYS_COMP_VOL_PCT	86
RAD_PE_CI	.010876488	PHYS_COMP_WGT	115
RAD_PU_FGE	.0126		
RAD_QTY	.0056		
		PHYS_PKG_ID	PUCK278
RAD_PKG_ID	RHZ-103-A13561	PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS
RAD_ISO_NUM	99	PHYS_COMP_VOL_PCT	.5
RAD_ALPHA_CI	.0000007856	PHYS_COMP_WGT	0
RAD_PE_CI	.00000071454474		
RAD_PU_FGE	.00000015		
RAD_QTY	.0002		

PHYS_PKG_ID	PUCK278	HAZ_COMP_WGT_PCT	.068
PHYS_COMP_DESCR	PAPER/CARDBOARD	HAZ_EPCRA_FLAG	N
PHYS_COMP_VOL_PCT	9.5		
PHYS_COMP_WGT	5	HAZ_PKG_ID	OTP-LLW-WP-02
		HAZ_COMP_ID	TEMP2091
PHYS_PKG_ID	PUCK278	HAZ_COMP_TEXT	LIQUID WASTE
PHYS_COMP_DESCR	PLASTIC/POLYURATHANE	HAZ_COMP_WGT	.6
PHYS_COMP_VOL_PCT	4		
PHYS_COMP_WGT	5	HAZ_PKG_ID	OTP-LLW-WP-02
		HAZ_COMP_ID	TEMP3413
PHYS_PKG_ID	RHZ-101-A13568	HAZ_COMP_TEXT	SODIUM CHLORIDE
PHYS_COMP_DESCR	CLOTH/RAGS/NYLON	HAZ_COMP_WGT	.04
PHYS_COMP_VOL_PCT	15		
		HAZ_PKG_ID	OTP-LLW-WP-04
PHYS_PKG_ID	RHZ-101-A13568	HAZ_COMP_ID	TEMP0440
PHYS_COMP_DESCR	PAPER/CARDBOARD	HAZ_COMP_TEXT	ACID
PHYS_COMP_VOL_PCT	30	HAZ_COMP_WGT	1.5
		HAZ_COMP_WGT_PCT	5
PHYS_PKG_ID	RHZ-101-A13568		
PHYS_COMP_DESCR	PLASTIC/POLYURATHANE	HAZ_PKG_ID	OTP-LLW-WP-04
PHYS_COMP_VOL_PCT	40	HAZ_COMP_ID	TEMP1985
		HAZ_COMP_TEXT	LEAD
PHYS_PKG_ID	RHZ-101-A13568	HAZ_COMP_WGT	8.9
PHYS_COMP_DESCR	RUBBER	HAZ_COMP_WGT_PCT	28
PHYS_COMP_VOL_PCT	15		
		HAZ_PKG_ID	OTP-LLW-WP-04
PHYS_PKG_ID	RHZ-103-A13561	HAZ_COMP_ID	TEMP2628
PHYS_COMP_DESCR	CLOTH/RAGS/NYLON	HAZ_COMP_TEXT	OIL
PHYS_COMP_VOL_PCT	15	HAZ_COMP_WGT	1.9
		HAZ_COMP_WGT_PCT	6
PHYS_PKG_ID	RHZ-103-A13561		
PHYS_COMP_DESCR	PAPER/CARDBOARD	HAZ_PKG_ID	OTP-LLW-WP-04
PHYS_COMP_VOL_PCT	40	HAZ_COMP_ID	TEMP3530
		HAZ_COMP_TEXT	SOLVENTS
PHYS_PKG_ID	RHZ-103-A13561	HAZ_COMP_WGT	2.1
PHYS_COMP_DESCR	PLASTIC/POLYURATHANE	HAZ_COMP_WGT_PCT	6
PHYS_COMP_VOL_PCT	30		
PHYS_PKG_ID	RHZ-103-A13561	HAZ_PKG_ID	PUCK278
PHYS_COMP_DESCR	RUBBER	HAZ_COMP_ID	7439-97-6
PHYS_COMP_VOL_PCT	15	HAZ_COMP_TEXT	MERCURY
		HAZ_COMP_WGT	.001
		HAZ_COMP_WGT_PCT	.0009
HDET_PKG_ID	OTP-LLW-WP-01	HAZ_EPCRA_FLAG	N
HDET_CNTR_STATUS	F		
HDET_DESIG_CD	RE	HAZ_PKG_ID	PUCK278
HDET_DW_NUM	D008 D009	HAZ_COMP_ID	TEMP1985
HDET_WASTE_VOL	.208	HAZ_COMP_TEXT	LEAD
HDET_WASTE_STATUS	U	HAZ_COMP_WGT	.085
		HAZ_COMP_WGT_PCT	.068
HDET_PKG_ID	OTP-LLW-WP-02	HAZ_EPCRA_FLAG	N
HDET_DESIG_CD	RD		
HDET_DW_NUM	D002	PDW_PKG_ID	OTP-LLW-WP-01
HDET_WASTE_VOL	.21	PDW_NUM	D008
		PDW_LANBAN	Y
HDET_PKG_ID	OTP-LLW-WP-04	PDW_SORT_ORDER	808
HDET_DESIG_CD	RE		
HDET_DW_NUM	D008 WT01	PDW_PKG_ID	OTP-LLW-WP-01
HDET_WASTE_VOL	.07	PDW_NUM	D009
		PDW_LANBAN	Y
HDET_PKG_ID	PUCK278	PDW_SORT_ORDER	809
HDET_CNTR_STATUS	F		
HDET_DESIG_CD	RE	NDA_PKG_ID	OTP-LLW-WP-01
HDET_DW_NUM	D008 D009	NDA_DT	SEP-12-96 13:13:25
HDET_WASTE_VOL	.208	NDA_DT	3051522805
HDET_WASTE_STATUS	U	NDA_ASSAY_NUM	258
		NDA_FUT_EVAL_REQD	N
HAZ_PKG_ID	OTP-LLW-WP-01	NDA_ISO_TOT	5
HAZ_COMP_ID	7439-97-6	NDA_PROF_ID	NRLLW1
HAZ_COMP_TEXT	MERCURY	NDA_RVST_FLAG	N
HAZ_COMP_WGT	.001	NDA_SWTYP_GROUP	LLW
HAZ_COMP_WGT_PCT	.0009	NDA_THERMAL_POWER	3.5
HAZ_EPCRA_FLAG	N	NDA_TMU_ALPHA_CI	0
		NDA_TMU_THERMAL_POWER	.035
HAZ_PKG_ID	OTP-LLW-WP-01	NDA_TOT_ALPHA_CI	0
HAZ_COMP_ID	TEMP1985	NDA_WASTE_CAT	WC1
HAZ_COMP_TEXT	LEAD		
HAZ_COMP_WGT	.085	NDA_PKG_ID	OTP-LLW-WP-02

NDA_DT SEP-12-96 13:47:13
 NDA_DT 3051524833
 NDA_ASSAY_NUM 265
 NDA_FUT_EVAL_REQD N
 NDA_ISO_TOT 1
 NDA_PROF_ID NRLLW1
 NDA_RVST_FLAG N
 NDA_SWTYP_GROUP LLW
 NDA_THERMAL_POWER 3.53
 NDA_TMU_ALPHA_CI 0
 NDA_TMU_THERMAL_POWER .0353
 NDA_TOT_ALPHA_CI 0
 NDA_WASTE_CAT GTWC3

NDA_PKG_ID OTP-LLW-WP-03
 NDA_DT SEP-12-96 13:34:22
 NDA_DT 3051524062
 NDA_ASSAY_NUM 262
 NDA_FUT_EVAL_REQD N
 NDA_ISO_TOT 2
 NDA_PROF_ID NRLLW1
 NDA_RVST_FLAG N
 NDA_SWTYP_GROUP LLW
 NDA_THERMAL_POWER 5.45
 NDA_TMU_ALPHA_CI 0
 NDA_TMU_THERMAL_POWER .0545
 NDA_TOT_ALPHA_CI 0
 NDA_WASTE_CAT GTWC3

NDA_PKG_ID OTP-LLW-WP-04
 NDA_DT SEP-12-96 13:18:27
 NDA_DT 3051523107
 NDA_ASSAY_NUM 261
 NDA_FUT_EVAL_REQD N
 NDA_ISO_TOT 4
 NDA_PROF_ID NRLLW1
 NDA_RVST_FLAG N
 NDA_SWTYP_GROUP LLW
 NDA_THERMAL_POWER 5.45
 NDA_TMU_ALPHA_CI 0
 NDA_TMU_THERMAL_POWER .0545
 NDA_TOT_ALPHA_CI 0
 NDA_WASTE_CAT GTWC3

NDA_PKG_ID RHZ-101-A13568
 NDA_DT AUG-08-97 18:42:20
 NDA_DT 3080054540
 NDA_ASSAY_NUM 1
 NDA_FUT_EVAL_REQD Y
 NDA_ISO_TOT 60
 NDA_PROF_ID TEST
 NDA_RVST_FLAG N
 NDA_TOT_ALPHA_CI .000663124491192445
 NDA_TOT_ALPHA_CI_TMU .000027472306898023

NDA_PKG_ID RHZ-101-A13568
 NDA_DT AUG-08-97 22:48:00
 NDA_DT 3080069280
 NDA_ASSAY_NUM 4
 NDA_FUT_EVAL_REQD Y
 NDA_ISO_TOT 60
 NDA_PROF_ID TEST
 NDA_RVST_FLAG N
 NDA_TOT_ALPHA_CI .00307933704290451
 NDA_TOT_ALPHA_CI_TMU .000132092725764085

NDA_PKG_ID RHZ-103-A13561
 NDA_DT AUG-08-97 18:44:21
 NDA_DT 3080054661
 NDA_ASSAY_NUM 2
 NDA_FUT_EVAL_REQD Y
 NDA_ISO_TOT 60
 NDA_PROF_ID TEST
 NDA_RVST_FLAG N
 NDA_TOT_ALPHA_CI .0734832895599637
 NDA_TOT_ALPHA_CI_TMU .00278999978807915

NDA_PKG_ID RHZ-103-A13561
 NDA_DT AUG-08-97 22:56:27
 NDA_DT 3080069787
 NDA_ASSAY_NUM 3
 NDA_FUT_EVAL_REQD Y
 NDA_ISO_TOT 60
 NDA_PROF_ID TEST
 NDA_RVST_FLAG N
 NDA_TOT_ALPHA_CI .000969349554775447
 NDA_TOT_ALPHA_CI_TMU .0000306829454603492

NDA_PKG_ID RHZ-103-A13561
 NDA_DT AUG-09-97 01:14:00
 NDA_DT 3080078040
 NDA_ASSAY_NUM 5
 NDA_FUT_EVAL_REQD Y
 NDA_ISO_TOT 60
 NDA_PROF_ID TEST
 NDA_RVST_FLAG N
 NDA_TOT_ALPHA_CI .0711790870036994
 NDA_TOT_ALPHA_CI_TMU .00283427410788774

NDAISO_PKG_ID OTP-LLW-WP-01
 NDAISO_ASSAY_NUM 258
 NDAISO_NAME K-40
 NDAISO_ASSAY_NUM 258
 NDAISO_QTY .000000254
 NDAISO_QTY_TMU .0000000254
 NDAISO_CONFIDENCE CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE B
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-01
 NDAISO_ASSAY_NUM 258
 NDAISO_NAME TH-232
 NDAISO_ASSAY_NUM 258
 NDAISO_QTY 11
 NDAISO_QTY_TMU .11
 NDAISO_CONFIDENCE CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE B
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-01
 NDAISO_ASSAY_NUM 258
 NDAISO_NAME U-234
 NDAISO_ASSAY_NUM 258
 NDAISO_QTY .0013
 NDAISO_QTY_TMU .000013
 NDAISO_CONFIDENCE CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE B
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-01
 NDAISO_ASSAY_NUM 258
 NDAISO_NAME U-235
 NDAISO_ASSAY_NUM 258
 NDAISO_QTY .19
 NDAISO_QTY_TMU .00019
 NDAISO_CONFIDENCE CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE B
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-01
 NDAISO_ASSAY_NUM 258
 NDAISO_NAME U-238
 NDAISO_ASSAY_NUM 258
 NDAISO_QTY 25
 NDAISO_QTY_TMU .25
 NDAISO_CONFIDENCE CK T

NDAISO_MEAS_STATUS ACT
NDAISO_PAN_ACTIVE B
NDAISO_PAN_PASSIVE NO
NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-02
NDAISO_ASSAY_NUM 265
NDAISO_NAME NA-22
NDAISO_ASSAY_NUM 265
NDAISO_QTY .0003
NDAISO_QTY_TMU .000003
NDAISO_CONFIDENCE_CHK T
NDAISO_MEAS_STATUS ACT
NDAISO_PAN_ACTIVE A
NDAISO_PAN_PASSIVE NO
NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-03
NDAISO_ASSAY_NUM 262
NDAISO_NAME CS-137
NDAISO_ASSAY_NUM 262
NDAISO_QTY .006
NDAISO_QTY_TMU .00006
NDAISO_CONFIDENCE_CHK T
NDAISO_MEAS_STATUS ACT
NDAISO_PAN_ACTIVE B
NDAISO_PAN_PASSIVE NO
NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-03
NDAISO_ASSAY_NUM 262
NDAISO_NAME SR-90
NDAISO_ASSAY_NUM 262
NDAISO_QTY .00006
NDAISO_QTY_TMU .000006
NDAISO_CONFIDENCE_CHK T
NDAISO_MEAS_STATUS ACT
NDAISO_PAN_ACTIVE B
NDAISO_PAN_PASSIVE NO
NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-04
NDAISO_ASSAY_NUM 261
NDAISO_NAME CO-60
NDAISO_ASSAY_NUM 261
NDAISO_QTY .000004
NDAISO_QTY_TMU .00000004
NDAISO_CONFIDENCE_CHK T
NDAISO_MEAS_STATUS ACT
NDAISO_PAN_ACTIVE A
NDAISO_PAN_PASSIVE NO
NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-04
NDAISO_ASSAY_NUM 261
NDAISO_NAME CS-137
NDAISO_ASSAY_NUM 261
NDAISO_QTY .000013
NDAISO_QTY_TMU .00000013
NDAISO_CONFIDENCE_CHK T
NDAISO_MEAS_STATUS ACT
NDAISO_PAN_ACTIVE A
NDAISO_PAN_PASSIVE NO
NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-04
NDAISO_ASSAY_NUM 261
NDAISO_NAME EU-154
NDAISO_ASSAY_NUM 261
NDAISO_QTY .000002
NDAISO_QTY_TMU .00000002
NDAISO_CONFIDENCE_CHK T
NDAISO_MEAS_STATUS ACT
NDAISO_PAN_ACTIVE A
NDAISO_PAN_PASSIVE NO
NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID OTP-LLW-WP-04
NDAISO_ASSAY_NUM 261
NDAISO_NAME EU-155
NDAISO_ASSAY_NUM 261
NDAISO_QTY .000032
NDAISO_QTY_TMU .00000032
NDAISO_CONFIDENCE_CHK T
NDAISO_MEAS_STATUS ACT
NDAISO_PAN_ACTIVE A
NDAISO_PAN_PASSIVE NO
NDAISO_GEA THIS IS ONLY A TEST

NDAISO_PKG_ID RHZ-101-A13568
NDAISO_ASSAY_NUM 1
NDAISO_NAME BE-10
NDAISO_ASSAY_NUM 1
NDAISO_QTY 0
NDAISO_QTY_TMU 0
NDAISO_CONFIDENCE_CHK NA
NDAISO_MEAS_STATUS NP
NDAISO_PAN_ACTIVE NO
NDAISO_PAN_PASSIVE NO
NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
NDAISO_ASSAY_NUM 1
NDAISO_NAME C-14
NDAISO_ASSAY_NUM 1
NDAISO_QTY 0
NDAISO_QTY_TMU 0
NDAISO_CONFIDENCE_CHK NA
NDAISO_MEAS_STATUS NP
NDAISO_PAN_ACTIVE NO
NDAISO_PAN_PASSIVE NO
NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
NDAISO_ASSAY_NUM 1
NDAISO_NAME CO-113M
NDAISO_ASSAY_NUM 1
NDAISO_QTY 0
NDAISO_QTY_TMU 0
NDAISO_CONFIDENCE_CHK NA
NDAISO_MEAS_STATUS NP
NDAISO_PAN_ACTIVE NO
NDAISO_PAN_PASSIVE NO
NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
NDAISO_ASSAY_NUM 1
NDAISO_NAME CL-36
NDAISO_ASSAY_NUM 1
NDAISO_QTY 0
NDAISO_QTY_TMU 0
NDAISO_CONFIDENCE_CHK NA
NDAISO_MEAS_STATUS NP
NDAISO_PAN_ACTIVE NO
NDAISO_PAN_PASSIVE NO
NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
NDAISO_ASSAY_NUM 1
NDAISO_NAME CO-60
NDAISO_ASSAY_NUM 1
NDAISO_QTY .0000000608653537929058
NDAISO_QTY_TMU .00000000191544050421885
NDAISO_CONFIDENCE_CHK NA
NDAISO_MEAS_STATUS ACT
NDAISO_PAN_ACTIVE NO
NDAISO_PAN_PASSIVE NO
NDAISO_GEA LOD

NDAISO_PKG_ID RHZ-101-A13568
NDAISO_ASSAY_NUM 1
NDAISO_NAME H-3
NDAISO_ASSAY_NUM 1
NDAISO_QTY 0

NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME I-129
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE N

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME K-40
 NDAISO_ASSAY_NUM .000000300446420907974
 NDAISO_QTY .0000000172930626309153
 NDAISO_QTY_TMU NA
 NDAISO_CONFIDENCE_CK ACT
 NDAISO_MEAS_STATUS NO
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA LOD

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME MO-93
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME NB-94
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME NI-59
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME NI-63
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME PD-107
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME SE-79
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME SN-121M
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME SN-126
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME SR-90
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME TC-99
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 1
 NDAISO_NAME ZR-93
 NDAISO_ASSAY_NUM 1
 NDAISO_QTY 0

NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME BE-10
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME C-14
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME CD-113M
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME CL-36
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME CO-60
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY .0000000646429136395454
 NDAISO_QTY_TMU .00000000150498808764362
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA LOD

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME H-3
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO

NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME I-129
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE N

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME K-40
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY .000000516251444816589
 NDAISO_QTY_TMU .0000000218220007845962
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA LOD

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME MO-93
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME NB-94
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME NI-59
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME NI-63
 NDAISO_ASSAY_NUM 4
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-101-A13568
 NDAISO_ASSAY_NUM 4
 NDAISO_NAME PD-107
 NDAISO_ASSAY_NUM 4

NDAISO_QTY	0	NDAISO_PAN_PASSIVE	NO
NDAISO_QTY_TMJ	0	NDAISO_GEA	NONE
NDAISO_CONFIDENCE_CK	NA		
NDAISO_MEAS_STATUS	NP	NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_PAN_ACTIVE	NO	NDAISO_ASSAY_NUM	2
NDAISO_PAN_PASSIVE	NO	NDAISO_NAME	BE-10
NDAISO_GEA	NONE	NDAISO_ASSAY_NUM	2
		NDAISO_QTY	0
NDAISO_PKG_ID	RHZ-101-A13568	NDAISO_QTY_TMJ	0
NDAISO_ASSAY_NUM	4	NDAISO_CONFIDENCE_CK	NA
NDAISO_NAME	SE-79	NDAISO_MEAS_STATUS	NP
NDAISO_ASSAY_NUM	4	NDAISO_PAN_ACTIVE	NO
NDAISO_QTY	0	NDAISO_PAN_PASSIVE	NO
NDAISO_QTY_TMJ	0	NDAISO_GEA	NONE
NDAISO_CONFIDENCE_CK	NA		
NDAISO_MEAS_STATUS	NP	NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_PAN_ACTIVE	NO	NDAISO_ASSAY_NUM	2
NDAISO_PAN_PASSIVE	NO	NDAISO_NAME	C-14
NDAISO_GEA	NONE	NDAISO_ASSAY_NUM	2
		NDAISO_QTY	0
NDAISO_PKG_ID	RHZ-101-A13568	NDAISO_QTY_TMJ	0
NDAISO_ASSAY_NUM	4	NDAISO_CONFIDENCE_CK	NA
NDAISO_NAME	SN-121M	NDAISO_MEAS_STATUS	NP
NDAISO_ASSAY_NUM	4	NDAISO_PAN_ACTIVE	NO
NDAISO_QTY	0	NDAISO_PAN_PASSIVE	NO
NDAISO_QTY_TMJ	0	NDAISO_GEA	NONE
NDAISO_CONFIDENCE_CK	NA		
NDAISO_MEAS_STATUS	NP	NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_PAN_ACTIVE	NO	NDAISO_ASSAY_NUM	2
NDAISO_PAN_PASSIVE	NO	NDAISO_NAME	CD-113M
NDAISO_GEA	NONE	NDAISO_ASSAY_NUM	2
		NDAISO_QTY	0
NDAISO_PKG_ID	RHZ-101-A13568	NDAISO_QTY_TMJ	0
NDAISO_ASSAY_NUM	4	NDAISO_CONFIDENCE_CK	NA
NDAISO_NAME	SN-126	NDAISO_MEAS_STATUS	NP
NDAISO_ASSAY_NUM	4	NDAISO_PAN_ACTIVE	NO
NDAISO_QTY	0	NDAISO_PAN_PASSIVE	NO
NDAISO_QTY_TMJ	0	NDAISO_GEA	NONE
NDAISO_CONFIDENCE_CK	NA		
NDAISO_MEAS_STATUS	NP	NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_PAN_ACTIVE	NO	NDAISO_ASSAY_NUM	2
NDAISO_PAN_PASSIVE	NO	NDAISO_NAME	CL-36
NDAISO_GEA	NONE	NDAISO_ASSAY_NUM	2
		NDAISO_QTY	0
NDAISO_PKG_ID	RHZ-101-A13568	NDAISO_QTY_TMJ	0
NDAISO_ASSAY_NUM	4	NDAISO_CONFIDENCE_CK	NA
NDAISO_NAME	SR-90	NDAISO_MEAS_STATUS	NP
NDAISO_ASSAY_NUM	4	NDAISO_PAN_ACTIVE	NO
NDAISO_QTY	0	NDAISO_PAN_PASSIVE	NO
NDAISO_QTY_TMJ	0	NDAISO_GEA	NONE
NDAISO_CONFIDENCE_CK	NA		
NDAISO_MEAS_STATUS	NP	NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_PAN_ACTIVE	NO	NDAISO_ASSAY_NUM	2
NDAISO_PAN_PASSIVE	NO	NDAISO_NAME	CO-60
NDAISO_GEA	NONE	NDAISO_ASSAY_NUM	2
		NDAISO_QTY	.00000000665036588907262
NDAISO_PKG_ID	RHZ-101-A13568	NDAISO_QTY_TMJ	.0000000017466502985813
NDAISO_ASSAY_NUM	4	NDAISO_CONFIDENCE_CK	NA
NDAISO_NAME	TC-99	NDAISO_MEAS_STATUS	ACT
NDAISO_ASSAY_NUM	4	NDAISO_PAN_ACTIVE	NO
NDAISO_QTY	0	NDAISO_PAN_PASSIVE	NO
NDAISO_QTY_TMJ	0	NDAISO_GEA	LOD
NDAISO_CONFIDENCE_CK	NA		
NDAISO_MEAS_STATUS	NP	NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_PAN_ACTIVE	NO	NDAISO_ASSAY_NUM	2
NDAISO_PAN_PASSIVE	NO	NDAISO_NAME	H-3
NDAISO_GEA	NONE	NDAISO_ASSAY_NUM	2
		NDAISO_QTY	0
NDAISO_PKG_ID	RHZ-101-A13568	NDAISO_QTY_TMJ	0
NDAISO_ASSAY_NUM	4	NDAISO_CONFIDENCE_CK	NA
NDAISO_NAME	ZR-93	NDAISO_MEAS_STATUS	NP
NDAISO_ASSAY_NUM	4	NDAISO_PAN_ACTIVE	NO
NDAISO_QTY	0	NDAISO_PAN_PASSIVE	NO
NDAISO_QTY_TMJ	0	NDAISO_GEA	NONE
NDAISO_CONFIDENCE_CK	NA		
NDAISO_MEAS_STATUS	NP	NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_PAN_ACTIVE	NO	NDAISO_ASSAY_NUM	2
NDAISO_PAN_PASSIVE	NO		
NDAISO_GEA	NO		

NDAISO_NAME	I-129
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	N
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	K-40
NDAISO_ASSAY_NUM	2
NDAISO_QTY	.000000627851963043213
NDAISO_QTY_TMJ	.0000000299940485083089
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	ACT
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	LOO
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	MO-93
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	NONE
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	NB-94
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	NONE
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	NI-59
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	NONE
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	NI-63
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	NONE
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	PD-107
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP

NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	NONE
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	SE-79
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	NONE
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	SN-121M
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	NONE
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	SN-126
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	NONE
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	SR-90
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	NONE
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	TC-99
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	NONE
NDAISO_PKG_ID	RHZ-103-A13561
NDAISO_ASSAY_NUM	2
NDAISO_NAME	ZR-93
NDAISO_ASSAY_NUM	2
NDAISO_QTY	0
NDAISO_QTY_TMJ	0
NDAISO_CONFIDENCE_CK	NA
NDAISO_MEAS_STATUS	NP
NDAISO_PAN_ACTIVE	NO
NDAISO_PAN_PASSIVE	NO
NDAISO_GEA	NONE
NDAISO_PKG_ID	RHZ-103-A13561

NDAISO_ASSAY_NUM 3
 NDAISO_NAME BE-10
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME C-14
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME CD-113M
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME CL-36
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME CO-60
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY .0000000583489090204239
 NDAISO_QTY_TMU .00000000154896691983814
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA LOD

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME H-3
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME I-129
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0

NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE N

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME K-40
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY .0000000396498471498489
 NDAISO_QTY_TMU .0000000187943022787267
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA LOD

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME MO-93
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME NB-94
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME NI-59
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME NI-63
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME PD-107
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME SE-79
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME SN-121M
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME SN-126
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME SR-90
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME TC-99
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 3
 NDAISO_NAME ZR-93
 NDAISO_ASSAY_NUM 3
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME BE-10
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0

NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME C-14
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME CD-113M
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME CL-36
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME CO-60
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY .00000000616426940526485
 NDAISO_QTY_TMU .0000000016189767151073
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA LOD

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME H-3
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME I-129
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE N

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME K-40
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY .000000627062678337097
 NDAISO_QTY_TMU .0000000299563412827646
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA LOD

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME MO-93
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME NB-94
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME NI-59
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME NI-63
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME PD-107
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME SE-79
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0

NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME SN-121M
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME SN-126
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME SR-90
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME TC-99
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDAISO_PKG_ID RHZ-103-A13561
 NDAISO_ASSAY_NUM 5
 NDAISO_NAME ZR-93
 NDAISO_ASSAY_NUM 5
 NDAISO_QTY 0
 NDAISO_QTY_TMU 0
 NDAISO_CONFIDENCE_CK NA
 NDAISO_MEAS_STATUS NP
 NDAISO_PAN_ACTIVE NO
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA NONE

NDE_PKG_ID OTP-LLW-WP-01
 NDE_DT 12-SEP-96
 NDE_COMMENTS OTP-LLW-WP-01 1ST IMAGE COMMENTS
 NDE_OPER_ID USER1
 NDE_VDISK_FILE WP05X
 NDE_VDISK_NUM P22V1
 NDE_VTAPE_NUM P22T1
 NDE_VTAPE_START 200

NDE_PKG_ID	OTP-LLW-WP-01	SAM_TEMP	22
NDE_DT	12-SEP-96	SAM_PKG_ID	OTP-LLW-WP-01
NDE_COMMENTS	OTP-LLW-WP-01 2ND IMAGE	SAR_SAMPLE_ID	97-00001
	COMMENTS	SAR_ANAL_CD	SOILS
NDE_OPER_ID	USER1		
NDE_VDISK_FILE	WP05Y	SAR_SAMPLE_ID	97-00001
NDE_VDISK_NUM	P22V1	SAR_ANAL_CD	TCLP
NDE_VTAPE_NUM	P22T1		
NDE_VTAPE_START	250	BOT_BOTTLE_ID	97-00001-01L
		BOT_SAMPLE_ID	97-00001
		BOT_ANAL_CD	TCLP
NDE_PKG_ID	OTP-LLW-WP-02		
NDE_DT	12-SEP-96	BOT_BOTTLE_ID	97-00001-02L
NDE_COMMENTS	OTP-LLW-WP-02 1ST IMAGE	BOT_SAMPLE_ID	97-00001
	COMMENTS	BOT_ANAL_CD	SOILS
NDE_OPER_ID	USER1		
NDE_VDISK_FILE	WP11X	SAMREL_BOTTLE_ID	97-00001-01L
NDE_VDISK_NUM	P22V1	SAMREL_PKG_ID	OTP-LLW-WP-01
NDE_VTAPE_NUM	P22T1	SAMREL_DT	12-AUG-97
NDE_VTAPE_START	200	SAMREL_USE_CD	WV
NDE_PKG_ID	OTP-LLW-WP-02	SAMREL_BOTTLE_ID	97-00001-01L
NDE_DT	12-SEP-96	SAMREL_PKG_ID	OTP6-97-3000001
NDE_COMMENTS	OTP-LLW-WP-02 2ND IMAGE	SAMREL_DT	13-AUG-27
	COMMENTS	SAMREL_USE_CD	PP
NDE_OPER_ID	USER1		
NDE_VDISK_FILE	WP11Y	SAMREL_BOTTLE_ID	97-00001-02L
NDE_VDISK_NUM	P22V1	SAMREL_PKG_ID	OTP-LLW-WP-01
NDE_VTAPE_NUM	P22T1	SAMREL_DT	12-AUG-97
NDE_VTAPE_START	250	SAMREL_USE_CD	WV
NDE_PKG_ID	OTP-LLW-WP-03	SAMREL_BOTTLE_ID	97-00001-02L
NDE_DT	12-SEP-96	SAMREL_PKG_ID	OTP6-97-3000001
NDE_COMMENTS	OTP-LLW-WP-03 1ST IMAGE	SAMREL_DT	13-AUG-27
	COMMENTS	SAMREL_USE_CD	PP
NDE_OPER_ID	USER1		
NDE_VDISK_FILE	WP04X	CONLOC_PKG_ID	OTP-LLW-0D-01
NDE_VDISK_NUM	P22V1	CONLOC_DT	13-AUG-27
NDE_VTAPE_NUM	P22T1	CONLOC_LOCN_ID	LLW_ENTRY
NDE_VTAPE_START	200		
		CONLOC_PKG_ID	OTP-LLW-0D-02
NDE_PKG_ID	OTP-LLW-WP-03	CONLOC_DT	15-JAN-97
NDE_DT	12-SEP-96	CONLOC_LOCN_ID	AIRCVR_A3
NDE_COMMENTS	OTP-LLW-WP-03 2ND IMAGE		
	COMMENTS	CONLOC_PKG_ID	OTP-LLW-0D-03
NDE_OPER_ID	USER1	CONLOC_DT	15-JAN-97
NDE_VDISK_FILE	WP04Y	CONLOC_LOCN_ID	AIRCVR_A3
NDE_VDISK_NUM	P22V1		
NDE_VTAPE_NUM	P22T1	CONLOC_PKG_ID	OTP-LLW-0D-04
NDE_VTAPE_START	250	CONLOC_DT	15-JAN-97
		CONLOC_LOCN_ID	AIRCVR_A3
NDE_PKG_ID	OTP-LLW-WP-04	CONLOC_PKG_ID	OTP-LLW-WP-01
NDE_DT	12-SEP-96	CONLOC_DT	13-AUG-27
NDE_COMMENTS	OTP-LLW-WP-04 1ST IMAGE	CONLOC_LOCN_ID	LLW_SORT
	COMMENTS		
NDE_OPER_ID	USER1	CONLOC_PKG_ID	OTP-LLWR-TD-01
NDE_VDISK_FILE	WP08X	CONLOC_DT	13-AUG-27
NDE_VDISK_NUM	P22V1	CONLOC_LOCN_ID	LLW_RWMPRT
NDE_VTAPE_NUM	P22T1		
NDE_VTAPE_START	200	CONLOC_PKG_ID	OTP-LLWR-TD-02
		CONLOC_DT	05-FEB-97
		CONLOC_LOCN_ID	RWM_CRSL
NDE_PKG_ID	OTP-LLW-WP-04		
NDE_DT	12-SEP-96	CONLOC_PKG_ID	OTP6-97-400001
NDE_COMMENTS	OTP-LLW-WP-04 2ND IMAGE	CONLOC_DT	13-AUG-27
	COMMENTS	CONLOC_LOCN_ID	LLW_PP
NDE_OPER_ID	USER1		
NDE_VDISK_FILE	WP08Y	CONLOC_PKG_ID	RHZ-101-A13568
NDE_VDISK_NUM	P22V1	CONLOC_DT	10-AUG-27
NDE_VTAPE_NUM	P22T1	CONLOC_LOCN_ID	INFDCVVRW
NDE_VTAPE_START	250		
		CONLOC_PKG_ID	RHZ-103-A13561
		CONLOC_DT	10-AUG-27
		CONLOC_LOCN_ID	AGVPANC_A
SAM_SAMPLE_ID	97-00001		
SAM_CLOSED_FLAG	N		
SAM_COMMENTS	aaaaa		
SAM_LOCN_ID	LLW_SORT		
SAM_MATRIX_CD	SO		
SAM_TAKEN_BY	62264		
SAM_TAKEN_DT	12-AUG-97		

CONR_FROM_PKG_ID CONR_TO_PKG_ID CONR_DT CONR_REL_CD	OTP-LLW-WP-01 OTP-LLW-OD-01 12-AUG-97 M	MSGLOG_SPEC_TYPE MSGLOG_STRING1	DD DMS5IE"DD"RHZ-103-A13561" 55"21.35"409.091"PROC"CHA
CONR_FROM_PKG_ID CONR_TO_PKG_ID CONR_DT CONR_REL_CD	OTP-LLW-WP-02 OTP-LLW-OD-02 05-JAN-97 M	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 Y PCSDMS 59112 CL PCSDMS"CL"871069005"NDE_B --"1"COLDRUN-BACK-1"
CONR_FROM_PKG_ID CONR_TO_PKG_ID CONR_DT CONR_REL_CD	OTP-LLW-WP-03 OTP-LLW-OD-03 05-JAN-97 M	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N PCSDMS 59208 CL PCSDMS"CL"871071150"AGVPA NC_A""1"RHZ-101-A13568"
CONR_FROM_PKG_ID CONR_TO_PKG_ID CONR_DT CONR_REL_CD	OTP-LLW-WP-04 OTP-LLW-OD-04 05-JAN-97 M	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N DMSRSIE 59209 SDP DMSRSIE"SDP"RHZ-101-A1356 8"A"
CONR_FROM_PKG_ID CONR_TO_PKG_ID CONR_DT CONR_REL_CD	OTP6-97-300001 OTP6-97-400001 13-AUG-27 O	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N DMSRSIE 59209 SDP DMSRSIE"SDP"RHZ-101-A1356 8"A"
RADMAT_ID RADMAT_DESCR RADMAT_LIMIT RADMAT_RAD_TOT RADMAT_UNITS RADMAT_ALARM	F WRAP 1 FACILITY 100 10 CI N	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N PCSDMS 59228 CL PCSDMS"CL"871071546"AGVPA NC_A""1"RHZ-101-A13568"
RADMAT_ID RADMAT_DESCR RADMAT_LIMIT RADMAT_RAD_TOT RADMAT_UNITS RADMAT_ALARM	R TRU RWM GLOVEBOX 200 10 FGE N	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N DMSRSIE 59229 SDP DMSRSIE"SDP"RHZ-101-A1356 8"A"
RADMAT_ID RADMAT_DESCR RADMAT_LIMIT RADMAT_RAD_TOT RADMAT_UNITS RADMAT_ALARM	T TRU GLOVEBOX 200 10 FGE N	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N PCSDMS 59282 CL PCSDMS"CL"871072652"AGVPA NC_A""1"RHZ-101-A13568"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N PCSDMS 58962 CLW PCSDMS"CLW"871065736"INFD CVYRW"1"RHZ-101-A13568"O"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N DMSRSIE 59283 SDP DMSRSIE"SDP"RHZ-101-A1356 8"A"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N DMS5IE 58963 DD DMS5IE"DD"RHZ-101-A13568" 55"-27"409.091"PROC"CHAD"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N PCSDMS 59318 CL PCSDMS"CL"871073307"AGVPA NC_A""1"RHZ-101-A13568"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N PCSDMS 58970 CLW PCSDMS"CLW"871065860"INFD CVYRW"1"RHZ-103-A13561"48	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-AUG-97 N DMSRSIE 59319 SDP DMSRSIE"SDP"RHZ-101-A1356 8"A"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM	08-AUG-97 N DMS5IE 58971		

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE

08-AUG-97
N
PCSDMS
59334
CL
PCSDMS"CL"871073501"AGVPA
NC_A""1"RHZ-101-A13568"

08-AUG-97
N
DMSRSIE
59335
SDP
DMSRSIE"SDP"RHZ-101-A1356
8"A"

08-AUG-97
N
PCSDMS
59338
CL
PCSDMS"CL"871073544"PAN_A
""1"RHZ-101-A13568"

08-AUG-97
N
PCSDMS
59345
CL
PCSDMS"CL"871073708"NDE_B
""1"RHZ-101-A13568"

08-AUG-97
N
PCSDMS
59392
CL
PCSDMS"CL"871074731"LLW_E
NTRY""1"OTP-LLW-00-01"

08-AUG-97
N
DMSPCS
59393
CL
DMSPCS"CL"LLW_ENTRY"1"OTP
-LLW-WP-01"

08-AUG-97
N
PCSDMS
59400
CL
PCSDMS"CL"871074842"AGVGE
AC_B""1"RHZ-101-A13568"

08-AUG-97
N
DMSRSIE
59401
SDG
DMSRSIE"SDG"RHZ-101-A1356
8"B"

08-AUG-97
N
PCSDMS
59404
CL
PCSDMS"CL"871074905"GEA_B
""1"RHZ-101-A13568"

08-AUG-97
Y
PCSDMS
59413
CL

MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_SEQ_NUM
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT

PCSDMS"CL"871075070"AS_RS
"43S"1"EMPTY101"

08-AUG-97
Y
PCSDMS
59421
CL
PCSDMS"CL"871075242"AS_RS
"93S"1"EMPTY099"

08-AUG-97
N
PCSDMS
59427
CL
PCSDMS"CL"871075316"AGVPA
NC_A""1"RHZ-103-A13561"

08-AUG-97
N
DMSRSIE
59428
SDP
DMSRSIE"SDP"RHZ-103-A1356
1"A"

08-AUG-97
N
PCSDMS
59431
CL
PCSDMS"CL"871075371"PAN_A
""1"RHZ-103-A13561"

08-AUG-97
Y
STEDMS
59444
RESS
STEDMS"RESS"RHZ-101-A1356
8"TT3080054540"1"LLW""0"8.

08-AUG-97
Y
DMSPCS
59445
SDMS
DMSPCS"SDMS"00400000"1012
"ERROR ORA-1400 SEQ#-5944

08-AUG-97
Y
59446
O"LONG RAW DATA ELEMENT
(msglog_string2) HAS
ENTIR

08-AUG-97
N
PCSDMS
59488
CL
PCSDMS"CL"871076500"AGVGE
AC_A""1"RHZ-103-A13561"

08-AUG-97
N
DMSRSIE
59489
SDG
DMSRSIE"SDG"RHZ-103-A1356
1"A"

08-AUG-97

CASE4X

LLW-4X.814 LLW GLOVEBOX OTP DMS DATABASE PRIOR TO THE FOUR FEED DRUMS GOING TO THE SUPERCOMPACTOR.

CON_PKG_ID OTP-LLW-0D-01
CON_CNTP_CD DM
CON_PKG_STATUS (R)
CON_SIZE_DESCR 85 GALLON
CON_TARE_WGT 31

CONEXT_PKG_ID OTP-LLW-0D-01
CONEXT_USE_CD (WV)
CONEXT_WRAP_STAT_CD I

CONR_FROM_PKG_ID OTP-LLW-WP-01
CONR_TO_PKG_ID OTP-LLW-0D-01
CONR_DT 08-12-97 10:08:07
CONR_REL_CD M

CON_PKG_ID OTP-LLW-0D-02
CON_CNTP_CD DM
CON_PKG_STATUS (U)
CON_SIZE_DESCR 85 GALLON
CON_TARE_WGT 31

CONEXT_PKG_ID OTP-LLW-0D-02
CONEXT_CONTAM_FLAG Y
CONEXT_USE_CD (EC)
CONEXT_WRAP_STAT_CD I

CON_PKG_ID OTP-LLW-0D-03
CON_CNTP_CD DM
CON_PKG_STATUS (R)
CON_SIZE_DESCR 85 GALLON
CON_TARE_WGT 31

CONEXT_PKG_ID OTP-LLW-0D-03
CONEXT_USE_CD (WV)
CONEXT_WRAP_STAT_CD I

CON_PKG_ID OTP-LLW-0D-04
CON_CNTP_CD DM
CON_PKG_STATUS (R)
CON_SIZE_DESCR 85 GALLON
CON_TARE_WGT 31

CONEXT_PKG_ID OTP-LLW-0D-04
CONEXT_USE_CD (WV)
CONEXT_WRAP_STAT_CD I

CONR_FROM_PKG_ID OTP-LLW-WP-04
CONR_TO_PKG_ID OTP-LLW-0D-04
CONR_DT 08-14-97 09:07:47
CONR_REL_CD M

NDE_PKG_ID OTP-LLW-0D-04
NDE_DT 09-12-96 13:11:35
NDE_COMMENTS OTP-LLW-WP-04 1ST IMAGE
COMMENTS

NDE_OPER_ID USER1
NDE_VDISK_FILE WP08X
NDE_VDISK_NUM P22V1
NDE_VTAPE_NUM P22T1
NDE_VTAPE_START 200

NDE_PKG_ID OTP-LLW-0D-04
NDE_DT 09-12-96 13:12:10
NDE_COMMENTS OTP-LLW-WP-04 2ND IMAGE
COMMENTS

NDE_OPER_ID USER1
NDE_VDISK_FILE WP08X
NDE_VDISK_NUM P22V1
NDE_VTAPE_NUM P22T1
NDE_VTAPE_START 250

CON_PKG_ID OTP-LLW-WP-01
CON_ACCUM_DT 10-19-93 00:00:00
CON_CHEM_NATURE_CD I
CON_CNTR_VOL .21
CON_CNTP_CD DM
CON_GENER_WASTE_DESCR LOW LEVEL WASTE
CON_GGRP_ID ANL
CON_GROSS_WGT 152.7
CON_LABPACK_FLAG N
CON_LOCN_FACIL_ID 2336W
CON_PHYS_STATE_CD S
CON_PKG_DT 10-19-93 00:00:00
CON_PKG_STATUS (R)
CON_PWTYP_CD M
CON_SAMPLE_FLAG Y
CON_SCAT_CD OMW
CON_SIZE_DESCR 55 GALLON
CON_SRCE_CHRG_CD TH233
CON_SRCE_CMPNY_ID ANL
CON_SRCE_CMPNY_TYPE GEN
CON_SRCE_FACIL_ID ARGON
CON_TARE_WGT 27.7
CON_TSD_ACCEPT_DT 02-27-95 00:00:00
CON_WASTE_WGT 125

CONEXT_PKG_ID OTP-LLW-WP-01
CONEXT_COMPLIANT_FLAG Y
CONEXT_NDE_VER_FLAG Y
CONEXT_PROF_FLAG N
CONEXT_PROF_ID NRLWL1
CONEXT_USE_CD (WV)
CONEXT_WRAP_STAT_CD I

HDET_PKG_ID OTP-LLW-WP-01
HDET_CNTR_STATUS F
HDET_DESIG_CD RE
HDET_DW_NUM D008 D009
HDET_WASTE_VOL .208
HDET_WASTE_STATUS U

RDET_PKG_ID OTP-LLW-WP-01
RDET_BG_DOSE_RATE .1
RDET_HANDLING C
RDET_RELOC_DT 09-01-96 00:00:00
RDET_RSWIMS COUNT 1
RDET_SDAR_APPRV_NUM 60-1R-3YM-0401
RDET_SWIMS_CD DD
RDET_SWIYP_CD 2A
RDET_SWIYP_GROUP LLW
RDET_THERMAL_POWER 3.53
RDET_TOT_BG_C1 .00000254
RDET_TOT_DE_C1 .0000097
RDET_WASTE_CAT WC1
RDET_WASTE_MAKEUP F
RDET_WRAP_CAT SO

HAZ_PKG_ID OTP-LLW-WP-01
HAZ_COMP_ID 7439-97-6
HAZ_COMP_TEXT MERCURY
HAZ_COMP_WGT .001
HAZ_COMP_WGT_PCT .0009
HAZ_EPCRA_FLAG N

HAZ_PKG_ID OTP-LLW-WP-01
HAZ_COMP_ID TEMP1985
HAZ_COMP_TEXT LEAD
HAZ_COMP_WGT .085
HAZ_COMP_WGT_PCT .068
HAZ_EPCRA_FLAG N

PHYS_PKG_ID OTP-LLW-WP-01

PHYS_COMP_DESCR	DIRT/SOIL/DIATOMACEOUS	NDAISO_PKG_ID	OTP-LLW-WP-01
PHYS_COMP_VOL_PCT	EARTH	NDAISO_DT	K-40
PHYS_COMP_WGT	86	NDAISO_NAME	258
	115	NDAISO_ASSAY_NUM	0.0000254
		NDAISO_QTY	.000000254
PHYS_PKG_ID	OTP-LLW-WP-01	NDAISO_QTY_TMJ	T
PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS	NDAISO_CONFIDENCE_CK	ACT
PHYS_COMP_VOL_PCT	.5	NDAISO_MEAS_STATUS	B
PHYS_COMP_WGT	0	NDAISO_PAN_ACTIVE	NO
		NDAISO_PAN_PASSIVE	THIS IS ONLY A TEST
		NDAISO_GEA	
PHYS_PKG_ID	OTP-LLW-WP-01	NDAISO_PKG_ID	OTP-LLW-WP-01
PHYS_COMP_DESCR	PAPER/CARDBOARD	NDAISO_DT	TH-232
PHYS_COMP_VOL_PCT	9.5	NDAISO_NAME	258
PHYS_COMP_WGT	5	NDAISO_ASSAY_NUM	11
		NDAISO_QTY	.11
PHYS_PKG_ID	OTP-LLW-WP-01	NDAISO_QTY_TMJ	T
PHYS_COMP_DESCR	PLASTIC/POLYURATHANE	NDAISO_CONFIDENCE_CK	ACT
PHYS_COMP_VOL_PCT	4	NDAISO_MEAS_STATUS	B
PHYS_COMP_WGT	5	NDAISO_PAN_ACTIVE	NO
		NDAISO_PAN_PASSIVE	THIS IS ONLY A TEST
		NDAISO_GEA	
PDW_PKG_ID	OTP-LLW-WP-01	NDAISO_PKG_ID	OTP-LLW-WP-01
PDW_NUM	D008	NDAISO_DT	U-234
PDW_LANBAN	Y	NDAISO_NAME	258
PDW_SORT_ORDER	809	NDAISO_ASSAY_NUM	.0013
		NDAISO_QTY	.000013
		NDAISO_QTY_TMJ	T
RAD_PKG_ID	OTP-LLW-WP-01	NDAISO_CONFIDENCE_CK	ACT
RAD_ISO_NUM	104	NDAISO_MEAS_STATUS	B
RAD_QTY	.00000788	NDAISO_PAN_ACTIVE	NO
		NDAISO_PAN_PASSIVE	THIS IS ONLY A TEST
		NDAISO_GEA	
RAD_PKG_ID	OTP-LLW-WP-01	NDAISO_PKG_ID	OTP-LLW-WP-01
RAD_ISO_NUM	18	NDAISO_DT	U-235
RAD_QTY	11	NDAISO_NAME	258
		NDAISO_ASSAY_NUM	.19
RAD_PKG_ID	OTP-LLW-WP-01	NDAISO_QTY	.0019
RAD_ISO_NUM	19	NDAISO_QTY_TMJ	T
RAD_QTY	.00000254	NDAISO_CONFIDENCE_CK	ACT
		NDAISO_MEAS_STATUS	B
RAD_PKG_ID	OTP-LLW-WP-01	NDAISO_PAN_ACTIVE	NO
RAD_ISO_NUM	202	NDAISO_PAN_PASSIVE	THIS IS ONLY A TEST
RAD_QTY	.0013	NDAISO_GEA	
RAD_PKG_ID	OTP-LLW-WP-01	NDAISO_PKG_ID	OTP-LLW-WP-01
RAD_ISO_NUM	203	NDAISO_DT	U-238
RAD_QTY	.19	NDAISO_NAME	258
		NDAISO_ASSAY_NUM	25
RAD_PKG_ID	OTP-LLW-WP-01	NDAISO_QTY	.25
RAD_ISO_NUM	206	NDAISO_QTY_TMJ	T
RAD_QTY	25	NDAISO_CONFIDENCE_CK	ACT
		NDAISO_MEAS_STATUS	B
RAD_PKG_ID	OTP-LLW-WP-01	NDAISO_PAN_ACTIVE	NO
RAD_ISO_NUM	86	NDAISO_PAN_PASSIVE	THIS IS ONLY A TEST
RAD_QTY	.00000254	NDAISO_GEA	
CONR_FROM_PKG_ID	OTP-LLW-WP-01	NDE_PKG_ID	OTP-LLW-WP-01
CONR_TO_PKG_ID	OTP-LLW-00-01	NDE_DT	09-12-96 13:05:30
CONR_DT	08-12-97 10:08:07	NDE_COMMENTS	OTP-LLW-WP-01 1ST IMAGE
CONR_REL_CD	M		COMMENTS
			USER1
NDA_PKG_ID	OTP-LLW-WP-01	NDE_OPER_ID	WP05X
NDA_DT	SEP-12-96 13:13:25	NDE_VDISK_FILE	P22V1
NDA_DT	3051522805	NDE_VDISK_NUM	P22T1
NDA_ASSAY_NUM	258	NDE_VTAPE_NUM	200
NDA_FUT_EVAL_REQD	N	NDE_VTAPE_START	
NDA_ISO_TOT	5		
NDA_PROF_ID	NRLW1		
NDA_RVST_FLAG	N		
NDA_SWTYP_GROUP	LLW	NDE_PKG_ID	OTP-LLW-WP-01
NDA_THERMAL_POWER	3.5	NDE_DT	09-12-96 13:06:38
NDA_TMU_ALPHA_CI	0	NDE_COMMENTS	OTP-LLW-WP-01 2ND IMAGE
NDA_TMU_THERMAL_POWER	.035		COMMENTS
NDA_TOT_ALPHA_CI	0		USER1
NDA_WASTE_CAT	WC1		WP05Y
			P22V1

NDE_VTAPE_NUM P22T1
 NDE_VTAPE_START 250
 CON_PKG_ID OTP-LLW-WP-02
 CON_ACCUM_DT 07-10-91 00:00:00
 CON_CHEM_NATURE_CD IO
 CON_CNTR_VOL .21
 CON_CNTRY_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 170.1
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 07-10-91 00:00:00
 CON_PKG_STATUS R
 CON_PWTYP_CD M
 CON_SAMPLE_FLAG N
 CON_SCAT_CD FLC
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD WM4G0
 CON_SRCE_CMPNY_ID WHC
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 07-10-91 00:00:00
 CON_WASTE_WGT 139.34

CONEXT_PKG_ID OTP-LLW-WP-02
 CONEXT_COMPLIANT_FLAG N
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_ROUTE_CD 3
 CONEXT_USE_CD W
 CONEXT_VER_GROSS_WGT 171.1
 CONEXT_VER_GROSS_WGT_FLAG Y
 CONEXT_WRAP_STAT_CD I

HDET_PKG_ID OTP-LLW-WP-02
 HDET_DESTG_CD RD
 HDET_DW_NUM D002
 HDET_WASTE_VOL .21
 RDET_PKG_ID OTP-LLW-WP-02
 RDET_BG_DOSE_RATE 50
 RDET_HANDLING C
 RDET_RELOC_DT 11-25-91 00:00:00
 RDET_RSWINS_COUNT 1
 RDET_SDAR_APPRV_NUM 7-1A-6LM-1
 RDET_SWINS_CD NC
 RDET_SWTYP_CD 2A
 RDET_SWTYP_GROUP LLW
 RDET_THERMAL_POWER 3.53
 RDET_TOT_ALPHA_CI 0
 RDET_TOT_BG_CI 0
 RDET_TOT_DE_CI 0
 RDET_TOT_PE_CI 0
 RDET_TOT_PU_FGE 0
 RDET_WASTE_MAKEUP F
 RDET_WRAP_CAT CL

HAZ_PKG_ID OTP-LLW-WP-02
 HAZ_COMP_ID TEMP2091
 HAZ_COMP_TEXT LIQUID WASTE
 HAZ_COMP_WGT .6
 HAZ_PKG_ID OTP-LLW-WP-02
 HAZ_COMP_ID TEMP3413
 HAZ_COMP_TEXT SODIUM CHLORIDE
 HAZ_COMP_WGT .04

PHYS_PKG_ID OTP-LLW-WP-02
 PHYS_COMP_DESCR CONWEB PADS
 PHYS_COMP_VOL_PCT 93

PHYS_COMP_WGT 127.5
 PHYS_PKG_ID OTP-LLW-WP-02
 PHYS_COMP_DESCR HAZARDOUS CONSTITUENTS
 PHYS_COMP_VOL_PCT 5
 PHYS_COMP_WGT .64

PHYS_PKG_ID OTP-LLW-WP-02
 PHYS_COMP_DESCR WATER
 PHYS_COMP_VOL_PCT 2
 PHYS_COMP_WGT 3.9

RAD_PKG_ID OTP-LLW-WP-02
 RAD_ISO_NUM 12
 RAD_QTY .00033

RAD_PKG_ID OTP-LLW-WP-02
 RAD_ISO_NUM 152
 RAD_QTY .000005

RAD_PKG_ID OTP-LLW-WP-02
 RAD_ISO_NUM 153
 RAD_QTY .00018

RAD_PKG_ID OTP-LLW-WP-02
 RAD_ISO_NUM 19
 RAD_QTY .035405
 RAD_UNKNOWN 0

RAD_PKG_ID OTP-LLW-WP-02
 RAD_ISO_NUM 43
 RAD_QTY .00045

RAD_PKG_ID OTP-LLW-WP-02
 RAD_ISO_NUM 53
 RAD_QTY .00014

RAD_PKG_ID OTP-LLW-WP-02
 RAD_ISO_NUM 56
 RAD_QTY .0003

RAD_PKG_ID OTP-LLW-WP-02
 RAD_ISO_NUM 91
 RAD_QTY .034

CONR_FROM_PKG_ID OTP-LLW-WP-02
 CONR_TO_PKG_ID OTP6-97-000001
 CONR_DT 08-14-27 17:26:29
 CONR_REL_CD S

CONR_FROM_PKG_ID OTP-LLW-WP-02
 CONR_TO_PKG_ID OTP6-97-000002
 CONR_DT 08-14-27 17:26:00
 CONR_REL_CD S

CONR_FROM_PKG_ID OTP-LLW-WP-02
 CONR_TO_PKG_ID OTP6-97-000003
 CONR_DT 08-14-27 17:27:06
 CONR_REL_CD S

NDA_PKG_ID OTP-LLW-WP-02
 NDA_DT SEP-12-96 13:47:13
 NDA_DT 3051524833
 NDA_ASSAY_NUM 265
 NDA_FUT_EVAL_REQD N
 NDA_ISO_TOT 1
 NDA_PROF_ID NRLLW1
 NDA_RVST_FLAG N
 NDA_SWTYP_GROUP LLW
 NDA_THERMAL_POWER 3.53
 NDA_TMU_ALPHA_CI 0
 NDA_TMU_THERMAL_POWER .0353
 NDA_TOT_ALPHA_CI 0
 NDA_WASTE_CAT GTWC3

NDAISO_PKG_ID OTP-LLW-WP-02
 NDAISO_DT

NDAISO_NAME NA-22
 NDAISO_ASSAY_NUM 265
 NDAISO_QTY .0003
 NDAISO_QTY_TMU .000003
 NDAISO_CONFIDENCE CK T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE A
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

NDE_PKG_ID OTP-LLW-WP-02
 NDE_DT 09-12-96 13:29:22
 NDE_COMMENTS OTP-LLW-WP-02 1ST IMAGE COMMENTS

NDE_OPER_ID USER1
 NDE_VDISK_FILE WP11X
 NDE_VDISK_NUM P22V1
 NDE_VTAPE_NUM P22T1
 NDE_VTAPE_START 200

NDE_PKG_ID OTP-LLW-WP-02
 NDE_DT 09-12-96 13:40:09
 NDE_COMMENTS OTP-LLW-WP-02 2ND IMAGE COMMENTS

NDE_OPER_ID USER1
 NDE_VDISK_FILE WP11Y
 NDE_VDISK_NUM P22V1
 NDE_VTAPE_NUM P22T1
 NDE_VTAPE_START 250

CON_PKG_ID OTP-LLW-WP-03
 CON_ACCUM_DT 05-29-90 00:00:00
 CON_CNTR_VOL .21
 CON_CNTPY_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GRP_ID OTHER
 CON_GROSS_WGT 163.02
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 05-29-90 00:00:00
 CON_PKG_STATUS (B)
 CON_PWTYP_CD R
 CON_SAMPLE_FLAG N
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD B80545
 CON_SRCE_CMPNY_ID PNL
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 05-29-90 00:00:00
 CON_WASTE_WGT 136

CONEXT_PKG_ID OTP-LLW-WP-03
 CONEXT_COMPLIANT_FLAG Y
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLWL1
 CONEXT_USE_CD (WV)
 CONEXT_WRAP_STAT_CD I

RDET_PKG_ID OTP-LLW-WP-03
 RDET_BG_DOSE_RATE 7
 RDET_HANDLING C
 RDET_RELOC_DT 05-29-90 00:00:00
 RDET_RSWIMS_COUNT 1
 RDET_SDAR_APPRV_NUM 2A-1A-1A-0
 RDET_SWIMS_CD CE
 RDET_SWTYP_CD 2A
 RDET_SWTYP_GROUP LLW
 RDET_THERMAL_POWER 3.53
 RDET_TOT_BG_CI .01212
 RDET_TOT_DE_CI 1
 RDET_WASTE_MAKEUP F
 RDET_WRAP_CAT DM

PHYS_PKG_ID
 PHYS_COMP_DESCR
 PHYS_COMP_VOL_PCT
 PHYS_COMP_WGT

PHYS_PKG_ID
 PHYS_COMP_DESCR
 PHYS_COMP_VOL_PCT
 PHYS_COMP_WGT

PHYS_PKG_ID
 PHYS_COMP_DESCR
 PHYS_COMP_VOL_PCT
 PHYS_COMP_WGT

RAD_PKG_ID
 RAD_ISO_NUM
 RAD_QTY
 RAD_UNKNOWN

RAD_PKG_ID
 RAD_ISO_NUM
 RAD_QTY

RAD_PKG_ID
 RAD_ISO_NUM
 RAD_QTY

NDA_PKG_ID
 NDA_DT
 NDA_DT
 NDA_ASSAY_NUM
 NDA_FUT_EVAL_READ
 NDA_ISO_TOT
 NDA_PROF_ID
 NDA_RVST_FLAG
 NDA_SWTYP_GROUP
 NDA_THERMAL_POWER
 NDA_TMU_ALPHA_CI
 NDA_TMU_THERMAL_POWER
 NDA_TOT_ALPHA_CI
 NDA_WASTE_CAT

NDAISO_PKG_ID
 NDAISO_DT
 NDAISO_NAME
 NDAISO_ASSAY_NUM
 NDAISO_QTY
 NDAISO_QTY_TMU
 NDAISO_CONFIDENCE CK
 NDAISO_MEAS_STATUS
 NDAISO_PAN_ACTIVE
 NDAISO_PAN_PASSIVE
 NDAISO_GEA

NDAISO_PKG_ID
 NDAISO_DT
 NDAISO_NAME
 NDAISO_ASSAY_NUM
 NDAISO_QTY
 NDAISO_QTY_TMU
 NDAISO_CONFIDENCE CK
 NDAISO_MEAS_STATUS
 NDAISO_PAN_ACTIVE
 NDAISO_PAN_PASSIVE
 NDAISO_GEA

NDE_PKG_ID
 NDE_DT
 NDE_COMMENTS

NDE_OPER_ID
 NDE_VDISK_FILE
 NDE_VDISK_NUM
 NDE_VTAPE_NUM
 NDE_VTAPE_START

OTP-LLW-WP-03
 CLOTH/RAGS/NYLON
 10
 14

OTP-LLW-WP-03
 PAPER/CARDBOARD
 30
 41

OTP-LLW-WP-03
 PLASTIC/POLYURATHANE
 60
 81

OTP-LLW-WP-03
 .01212
 .000324

OTP-LLW-WP-03
 3
 .00006

OTP-LLW-WP-03
 8
 .006

OTP-LLW-WP-03
 SEP-12-96 13:34:22
 3051524062
 262
 N
 2
 NRLWL1
 N
 LLW
 5.45
 0
 .0545
 0
 GWC3

OTP-LLW-WP-03
 CS-137
 262
 .006
 .00006
 T
 ACT
 B
 NO
 THIS IS ONLY A TEST

OTP-LLW-WP-03
 SR-90
 262
 .00006
 .0000006
 T
 ACT
 B
 NO
 THIS IS ONLY A TEST

OTP-LLW-WP-03
 09-12-96 13:31:45
 OTP-LLW-WP-03 1ST IMAGE
 COMMENTS
 USER1
 WP04X
 P22V1
 P22T1
 200

NDE_PKG_ID
NDE_DT
NDE_COMMENTS

NDE_OPER_ID
NDE_VDISK_FILE
NDE_VDISK_NUM
NDE_VTAPE_NUM
NDE_VTAPE_START

CON_PKG_ID
CON_ACCUM_DT
CON_CNTR_VOL
CON_CNTR_CD
CON_DATA_QUAL_CD
CON_GENER_WASTE_DESCR
CON_GRP_ID
CON_GROSS_WGT
CON_LABPACK_FLAG
CON_LOCN_FACIL_ID
CON_PHYS_STATE_CD
CON_PKG_DT
CON_PKG_STATUS
CON_PWTYP_CD
CON_SAMPLE_FLAG
CON_SCAT_CD
CON_SIZE_DESCR
CON_SRCE_CHRG_CD
CON_SRCE_CMPNY_ID
CON_SRCE_CMPNY_TYPE
CON_SRCE_FACIL_ID
CON_TARE_WGT
CON_TSD_ACCEPT_DT
CON_WASTE_WGT

CONEXT_PKG_ID
CONEXT_COMPLIANT_FLAG
CONEXT_NDE_VER_FLAG
CONEXT_PROF_FLAG
CONEXT_PROF_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

HDET_PKG_ID
HDET_DESIG_CD
HDET_DW_NUM
HDET_WASTE_VOL

RDET_PKG_ID
RDET_ASSAY_DT
RDET_BG_DOSE_RATE
RDET_HANDLING
RDET_RELOC_DT
RDET_RSHWS_COUNT
RDET_SDR_APPRV_NUM
RDET_SWIMS_CD
RDET_SWTYP_CD
RDET_SWTYP_GROUP
RDET_THERMAL_POWER
RDET_TOT_ALPHA_CI
RDET_TOT_BG_CI
RDET_TOT_DE_CI
RDET_TOT_PE_CI
RDET_TOT_PU_FGE
RDET_WASTE_MAKEUP
RDET_WRAP_CAT

HAZ_PKG_ID
HAZ_COMP_ID
HAZ_COMP_TEXT
HAZ_COMP_WGT
HAZ_COMP_WGT_PCT

HAZ_PKG_ID
HAZ_COMP_ID
HAZ_COMP_TEXT
HAZ_COMP_WGT

OTP-LLW-WP-03
09-12-96 13:33:16
OTP-LLW-WP-03 2ND IMAGE
COMMENTS
USER1
WP04Y
P22V1
P22T1
250

OTP-LLW-WP-04
07-05-90 00:00:00
.21
DM
AR
INNER
OTHER
358.34
N
2336W
S
07-05-90 00:00:00
R
M
N
OMW
55 GALLON
B3314
WHC
GEN
324
27
07-05-90 00:00:00
32.1

OTP-LLW-WP-04
N
Y
N
NRLLW1
WV
I

OTP-LLW-WP-04
RE
D008 WT01
.07

OTP-LLW-WP-04
07-10-49 00:00:00
2
C
08-10-93 00:00:00
1
4-1A-7VM-0
DS
2A
LLW
3.53
0
0
0
0
0
0
F
PB

OTP-LLW-WP-04
TEMP0440
ACID
1.5
5

OTP-LLW-WP-04
TEMP1985
LEAD
8.9

HAZ_COMP_WGT_PCT

HAZ_PKG_ID
HAZ_COMP_ID
HAZ_COMP_TEXT
HAZ_COMP_WGT
HAZ_COMP_WGT_PCT

HAZ_PKG_ID
HAZ_COMP_ID
HAZ_COMP_TEXT
HAZ_COMP_WGT
HAZ_COMP_WGT_PCT

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY
RAD_UNKNOWN

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

28

OTP-LLW-WP-04
TEMP2628
OIL
1.9
6

OTP-LLW-WP-04
TEMP3530
SOLVENTS
2.1
6

OTP-LLW-WP-04
CLOTH/RAGS/NYLON
48
13.6

OTP-LLW-WP-04
HAZARDOUS CONSTITUENTS
5
.64

OTP-LLW-WP-04
PLASTIC/POLYURATHANE
20
4.1

OTP-LLW-WP-04
13
.000004

OTP-LLW-WP-04
19
.000233
.0000007163

OTP-LLW-WP-04
31
.000032

OTP-LLW-WP-04
4
.000083

OTP-LLW-WP-04
40
.000002

OTP-LLW-WP-04
53
.000001

OTP-LLW-WP-04
8
.000013

OTP-LLW-WP-04
9
.000001

OTP-LLW-WP-04
OTP-LLW-04-04
08-14-97 09:07:47
M

OTP-LLW-WP-04
OTP6-97-000004
08-15-27 17:56:20
S

OTP-LLW-WP-04
OTP6-97-000005
08-15-27 17:56:08
S

RDET_PKG_ID	OTP6-97-000002	CON_PKG_ID	OTP6-97-000006
RDET_SWTYP_CD	2A	CON_GENER_WASTE_DESCR	BOTTLE OF ACID
RDET_SWTYP_GROUP	LLW		
CONR_FROM_PKG_ID	OTP-LLW-WP-02	CONEXT_PKG_ID	OTP6-97-000006
CONR_TO_PKG_ID	OTP6-97-000002	CONEXT_MAT_GRP_CD	LQ
CONR_DT	08-14-27 17:26:00	CONEXT_USE_CD	PK
CONR_REL_CD	S		
CONR_FROM_PKG_ID	OTP6-97-000002	RDET_PKG_ID	OTP6-97-000006
CONR_TO_PKG_ID	OTP-LLWR-TD-01	RDET_SWTYP_CD	2A
CONR_DT	08-14-27 17:26:00	RDET_SWTYP_GROUP	LLW
CONR_REL_CD	O		
CON_PKG_ID	OTP6-97-000003	CONR_FROM_PKG_ID	OTP-LLW-WP-04
CON_GENER_WASTE_DESCR	AEROSOL CAN OF UNKNOWN	CONR_TO_PKG_ID	OTP6-97-000006
		CONR_DT	08-15-27 17:57:37
CONEXT_PKG_ID	OTP6-97-000003	CONR_REL_CD	S
CONEXT_MAT_GRP_CD	AC		
CONEXT_USE_CD	PK	CONR_FROM_PKG_ID	OTP6-97-000006
		CONR_TO_PKG_ID	OTP-LLWR-TD-02
RDET_PKG_ID	OTP6-97-000003	CONR_DT	08-15-27 17:57:38
RDET_SWTYP_CD	2A	CONR_REL_CD	O
RDET_SWTYP_GROUP	LLW	CON_PKG_ID	OTP6-97-300001
CONR_FROM_PKG_ID	OTP-LLW-WP-02	CONEXT_PKG_ID	OTP6-97-300001
CONR_TO_PKG_ID	OTP6-97-000003	CONEXT_USE_CD	PP
CONR_DT	08-14-27 17:27:06	CONR_FROM_PKG_ID	OTP6-97-300001
CONR_REL_CD	S	CONR_TO_PKG_ID	OTP6-97-400001
		CONR_DT	08-13-27 21:57:45
CONR_FROM_PKG_ID	OTP6-97-000003	CONR_REL_CD	O
CONR_TO_PKG_ID	OTP-LLWR-TD-01		
CONR_DT	08-14-27 17:27:07	CON_PKG_ID	OTP6-97-400001
CONR_REL_CD	O	CON_PKG_DT	08-13-27 21:57:45
		CON_PKG_STATUS	G
CON_PKG_ID	OTP6-97-000004	CONEXT_PKG_ID	OTP6-97-400001
CON_GENER_WASTE_DESCR	LEAD BRICK	CONEXT_USE_CD	TP
		CONR_FROM_PKG_ID	OTP6-97-300001
CONEXT_PKG_ID	OTP6-97-000004	CONR_TO_PKG_ID	OTP6-97-400001
CONEXT_MAT_GRP_CD	PB	CONR_DT	08-13-27 21:57:45
CONEXT_USE_CD	PK	CONR_REL_CD	O
RDET_PKG_ID	OTP6-97-000004	CON_PKG_ID	PUCK278
RDET_SWTYP_CD	2A	CON_ACCUM_DT	10-19-93 00:00:00
RDET_SWTYP_GROUP	LLW	CON_CHEM_NATURE_CD	I
CONR_FROM_PKG_ID	OTP-LLW-WP-04	CON_CNTR_VOL	.21
CONR_TO_PKG_ID	OTP6-97-000004	CON_CNTPY_CD	DM
CONR_DT	08-15-27 17:56:20	CON_GENER_WASTE_DESCR	LOW LEVEL WASTE
CONR_REL_CD	S	CON_GRP_ID	ANL
		CON_GROSS_WGT	152.7
CONR_FROM_PKG_ID	OTP6-97-000004	CON_LABPACK_FLAG	N
CONR_TO_PKG_ID	OTP-LLWR-TD-02	CON_LOCN_FACIL_ID	2336W
CONR_DT	08-15-27 17:56:21	CON_PHYS_STATE_CD	S
CONR_REL_CD	O	CON_PKG_DT	10-19-93 00:00:00
		CON_PKG_STATUS	R
CON_PKG_ID	OTP6-97-000005	CON_PWTYP_CD	M
CON_GENER_WASTE_DESCR	BOTTLE OF OIL & BOTTLE OF SOLVENT	CON_SAMPLE_FLAG	Y
		CON_SCAT_CD	OMW
CONEXT_PKG_ID	OTP6-97-000005	CON_SEC_PKG_ID	OTP-LLW-WP-01
CONEXT_MAT_GRP_CD	LQ	CON_SIZE_DESCR	55 GALLON
CONEXT_USE_CD	PK	CON_SRCE_CHRG_CD	TH233
		CON_SRCE_CMPNT_ID	ANL
RDET_PKG_ID	OTP6-97-000005	CON_SRCE_CMPNT_TYPE	GEN
RDET_SWTYP_CD	2A	CON_SRCE_FACIL_ID	ARGON
RDET_SWTYP_GROUP	LLW	CON_TARE_WGT	27.7
CONR_FROM_PKG_ID	OTP-LLW-WP-04	CON_TSD_ACCEPT_DT	02-27-95 00:00:00
CONR_TO_PKG_ID	OTP6-97-000005	CON_WASTE_WGT	125
CONR_DT	08-15-27 17:57:08		
CONR_REL_CD	S	CON_PKG_ID	PUCK279
		CON_CNTPY_CD	DM
CONR_FROM_PKG_ID	OTP6-97-000005	CON_PKG_STATUS	R
CONR_TO_PKG_ID	OTP-LLWR-TD-02	CON_SEC_PKG_ID	OTP-LLW-WP-01
CONR_DT	08-15-27 17:57:08	CON_SIZE_DESCR	85 GALLON
CONR_REL_CD	O	CON_TARE_WGT	31
		CON_PKG_ID	PUCK281

CON_ACCUM_DT 07-10-91 00:00:00
 CON_CHEM_NATURE_CD IO
 CON_CNTR_VOL .21
 CON_CNTP_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 170.1
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 07-10-91 00:00:00
 CON_PKG_STATUS R
 CON_PWTYP_CD M
 CON_SAMPLE_FLAG N
 CON_SCAT_CD FLC
 CON_SEC_PKG_ID OTP-LLW-WP-02
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD WM4G0
 CON_SRCE_CMPNY_ID WHC
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 07-10-91 00:00:00
 CON_WASTE_WGT 139.34

CON_PKG_ID PUCK282
 CON_ACCUM_DT 05-29-90 00:00:00
 CON_CNTR_VOL .21
 CON_CNTP_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 163.02
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 05-29-90 00:00:00
 CON_PKG_STATUS R
 CON_PWTYP_CD R
 CON_SAMPLE_FLAG N
 CON_SEC_PKG_ID OTP-LLW-WP-03
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD B80545
 CON_SRCE_CMPNY_ID PNL
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 05-29-90 00:00:00
 CON_WASTE_WGT 136

CON_PKG_ID PUCK283
 CON_CNTP_CD DM
 CON_PKG_STATUS R
 CON_SEC_PKG_ID OTP-LLW-OD-03
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CON_PKG_ID PUCK284
 CON_ACCUM_DT 07-05-90 00:00:00
 CON_CNTR_VOL .21
 CON_CNTP_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 358.34
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 07-05-90 00:00:00
 CON_PKG_STATUS R
 CON_PWTYP_CD M
 CON_SAMPLE_FLAG N
 CON_SCAT_CD OMW
 CON_SEC_PKG_ID OTP-LLW-WP-04
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD 83314

CON_SRCE_CMPNY_ID WHC
 CON_SRCE_CMPNY_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 07-05-90 00:00:00
 CON_WASTE_WGT 32.1

CON_PKG_ID PUCK285
 CON_CNTP_CD DM
 CON_PKG_STATUS R
 CON_SEC_PKG_ID OTP-LLW-OD-04
 CON_SIZE_DESCR 85 GALLON
 CON_TARE_WGT 31

CONEXT_PKG_ID PUCK278
 CONEXT_COMPLIANT_FLAG Y
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_USE_CD WP
 CONEXT_WRAP_STAT_CD I
 CONEXT_PKG_ID PUCK279
 CONEXT_USE_CD EC
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID PUCK281
 CONEXT_COMPLIANT_FLAG N
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_ROUTE_CD 3
 CONEXT_USE_CD WP
 CONEXT_VER_GROSS_WGT 171.1
 CONEXT_VER_GROSS_WGT_FLAG Y
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID PUCK282
 CONEXT_COMPLIANT_FLAG Y
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_USE_CD WP
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID PUCK283
 CONEXT_USE_CD EC
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID PUCK284
 CONEXT_COMPLIANT_FLAG N
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_USE_CD WP
 CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID PUCK285
 CONEXT_USE_CD EC
 CONEXT_WRAP_STAT_CD I

HDET_PKG_ID PUCK278
 HDET_CNTR_STATUS F
 HDET_DESIG_CD RE
 HDET_DW_NUM D008 D009
 HDET_WASTE_VOL .208
 HDET_WASTE_STATUS U

HDET_PKG_ID PUCK281
 HDET_DESIG_CD RD
 HDET_DW_NUM D002
 HDET_WASTE_VOL .21

HDET_PKG_ID PUCK284
 HDET_DESIG_CD RE
 HDET_DW_NUM D008 W701

HDET_WASTE_VOL	.07	HAZ_PKG_ID	PUCK278
RDET_PKG_ID	PUCK278	HAZ_COMP_ID	TEMP1985
RDET_BG_DOSE_RATE	.1	HAZ_COMP_TEXT	LEAD
RDET_HANDLING	C	HAZ_COMP_WGT	.085
RDET_RELOC_DT	09-01-96 00:00:00	HAZ_COMP_WGT_PCT	.068
RDET_RSWIMS_COUNT	1	HAZ_EPCRA_FLAG	N
RDET_SDAR_APPRV_NUM	60-1R-3YM-0401	PHYS_PKG_ID	PUCK278
RDET_SWIMS_CD	DD	PHYS_COMP_DESCR	DIRT/SOIL/DIATOMACEOUS
RDET_SWTYP_CD	2A		EARTH
RDET_SWTYP_GROUP	LLW	PHYS_COMP_VOL_PCT	86
RDET_THERMAL_POWER	3.53	PHYS_COMP_WGT	115
RDET_TOT_BG_CI	.00000254	PHYS_PKG_ID	PUCK278
RDET_TOT_DE_CI	.0000097	PHYS_COMP_DESCR	HAZARDOUS CONSTITUENTS
RDET_WASTE_CAT	WC1	PHYS_COMP_VOL_PCT	.5
RDET_WASTE_MAKEUP	F	PHYS_COMP_WGT	0
RDET_WRAP_CAT	SO		
RDET_PKG_ID	PUCK281	PHYS_PKG_ID	PUCK278
RDET_BG_DOSE_RATE	50	PHYS_COMP_DESCR	PAPER/CARDBOARD
RDET_HANDLING	C	PHYS_COMP_VOL_PCT	9.5
RDET_RELOC_DT	11-25-91 00:00:00	PHYS_COMP_WGT	5
RDET_RSWIMS_COUNT	1	PHYS_PKG_ID	PUCK278
RDET_SDAR_APPRV_NUM	7-1A-6LM-1	PHYS_COMP_DESCR	PLASTIC/POLYURATHANE
RDET_SWIMS_CD	NC	PHYS_COMP_VOL_PCT	4
RDET_SWTYP_CD	2A	PHYS_COMP_WGT	5
RDET_SWTYP_GROUP	LLW		
RDET_THERMAL_POWER	3.53	PHYS_PKG_ID	PUCK281
RDET_TOT_ALPHA_CI	0	PHYS_COMP_DESCR	COWEB PADS
RDET_TOT_BG_CI	0	PHYS_COMP_VOL_PCT	98
RDET_TOT_DE_CI	0	PHYS_COMP_WGT	127.5
RDET_TOT_PE_CI	0		
RDET_TOT_PU_FGE	0	PHYS_PKG_ID	PUCK281
RDET_WASTE_MAKEUP	F	PHYS_COMP_DESCR	WATER
RDET_WRAP_CAT	CL	PHYS_COMP_VOL_PCT	2
		PHYS_COMP_WGT	3.9
RDET_PKG_ID	PUCK282	PHYS_PKG_ID	PUCK282
RDET_BG_DOSE_RATE	7	PHYS_COMP_DESCR	CLOTH/RAGS/NYLON
RDET_HANDLING	C	PHYS_COMP_VOL_PCT	10
RDET_RELOC_DT	05-29-90 00:00:00	PHYS_COMP_WGT	14
RDET_RSWIMS_COUNT	1	PHYS_PKG_ID	PUCK282
RDET_SDAR_APPRV_NUM	2A-1A-1A-0	PHYS_COMP_DESCR	PAPER/CARDBOARD
RDET_SWIMS_CD	CE	PHYS_COMP_VOL_PCT	30
RDET_SWTYP_CD	2A	PHYS_COMP_WGT	41
RDET_SWTYP_GROUP	LLW		
RDET_THERMAL_POWER	3.53	PHYS_PKG_ID	PUCK282
RDET_TOT_BG_CI	.01212	PHYS_COMP_DESCR	PLASTIC/POLYURATHANE
RDET_TOT_DE_CI	1	PHYS_COMP_VOL_PCT	60
RDET_WASTE_MAKEUP	F	PHYS_COMP_WGT	81
RDET_WRAP_CAT	DM		
RDET_PKG_ID	PUCK284	PHYS_PKG_ID	PUCK284
RDET_ASSAY_DT	07-10-49 00:00:00	PHYS_COMP_DESCR	CLOTH/RAGS/NYLON
RDET_BG_DOSE_RATE	2	PHYS_COMP_VOL_PCT	70
RDET_HANDLING	C	PHYS_COMP_WGT	13.6
RDET_RELOC_DT	08-10-93 00:00:00	PHYS_PKG_ID	PUCK284
RDET_RSWIMS_COUNT	1	PHYS_COMP_DESCR	PLASTIC/POLYURATHANE
RDET_SDAR_APPRV_NUM	4-1A-7VM-0	PHYS_COMP_VOL_PCT	30
RDET_SWIMS_CD	DS	PHYS_COMP_WGT	4.1
RDET_SWTYP_CD	2A		
RDET_SWTYP_GROUP	LLW	RAD_PKG_ID	PUCK278
RDET_THERMAL_POWER	3.53	RAD_ISO_NUM	104
RDET_TOT_ALPHA_CI	0	RAD_QTY	.00000788
RDET_TOT_BG_CI	0		
RDET_TOT_DE_CI	0	PUCK278	18
RDET_TOT_PE_CI	0		11
RDET_TOT_PU_FGE	0		
RDET_WASTE_MAKEUP	F		
RDET_WRAP_CAT	PB		
HAZ_PKG_ID	PUCK278		
HAZ_COMP_ID	7439-97-6		
HAZ_COMP_TEXT	MERCURY		
HAZ_COMP_WGT	.001		
HAZ_COMP_WGT_PCT	.0009		
HAZ_EPCRA_FLAG	N		

RAD_QTY	.0013	RAD_PKG_ID	PUCK284
RAD_PKG_ID	PUCK278	RAD_ISO_NUM	40
RAD_ISO_NUM	203	RAD_QTY	.000002
RAD_QTY	.19		
RAD_PKG_ID	PUCK278	RAD_PKG_ID	PUCK284
RAD_ISO_NUM	206	RAD_ISO_NUM	53
RAD_QTY	25	RAD_QTY	.000001
RAD_PKG_ID	PUCK278	RAD_PKG_ID	PUCK284
RAD_ISO_NUM	86	RAD_ISO_NUM	8
RAD_QTY	.00000254	RAD_QTY	.000013
RAD_PKG_ID	PUCK281	RAD_PKG_ID	PUCK284
RAD_ISO_NUM	12	RAD_ISO_NUM	9
RAD_QTY	.00033	RAD_QTY	.000001
RAD_PKG_ID	PUCK281	CONLOC_PKG_ID	OTP-LLW-OD-01
RAD_ISO_NUM	152	CONLOC_DT	08-13-27 17:01:00
RAD_QTY	.000005	CONLOC_LOCN_ID	LLW_ENTRY
RAD_PKG_ID	PUCK281	CONLOC_PKG_ID	OTP-LLW-OD-02
RAD_ISO_NUM	153	CONLOC_DT	08-13-27 23:50:10
RAD_QTY	.00018	CONLOC_LOCN_ID	LLW_ENTRY
RAD_PKG_ID	PUCK281	CONLOC_PKG_ID	OTP-LLW-OD-03
RAD_ISO_NUM	19	CONLOC_DT	08-15-27 15:38:27
RAD_QTY	.035405	CONLOC_LOCN_ID	LLW_ENTRY
RAD_UNKNOWN	0	CONLOC_PKG_ID	OTP-LLW-OD-04
RAD_PKG_ID	PUCK281	CONLOC_DT	08-15-27 16:06:40
RAD_ISO_NUM	43	CONLOC_LOCN_ID	LLW_ENTRY
RAD_QTY	.00045	CONLOC_PKG_ID	OTP-LLW-WP-01
RAD_PKG_ID	PUCK281	CONLOC_DT	08-14-27 01:42:44
RAD_ISO_NUM	53	CONLOC_LOCN_ID	LLW_SORT
RAD_QTY	.00014	CONLOC_PKG_ID	OTP-LLW-WP-02
RAD_PKG_ID	PUCK281	CONLOC_DT	08-14-27 01:55:59
RAD_ISO_NUM	56	CONLOC_LOCN_ID	LLW_SORT
RAD_QTY	.0003	CONLOC_PKG_ID	OTP-LLW-WP-03
RAD_PKG_ID	PUCK281	CONLOC_DT	08-13-97 13:25:13
RAD_ISO_NUM	91	CONLOC_LOCN_ID	LLW_ENTRY
RAD_QTY	.034	CONLOC_PKG_ID	OTP-LLW-WP-04
RAD_PKG_ID	PUCK282	CONLOC_DT	08-15-27 22:10:48
RAD_ISO_NUM	19	CONLOC_LOCN_ID	LLW_CMPCT
RAD_QTY	.01212	CONLOC_PKG_ID	OTP-LLWR-TD-01
RAD_UNKNOWN	.000324	CONLOC_DT	08-13-27 16:29:26
RAD_PKG_ID	PUCK282	CONLOC_LOCN_ID	LLW_RWMPRT
RAD_ISO_NUM	3	CONLOC_PKG_ID	OTP-LLWR-TD-02
RAD_QTY	.00006	CONLOC_DT	08-15-27 15:38:57
RAD_PKG_ID	PUCK282	CONLOC_LOCN_ID	LLW_RWMPRT
RAD_ISO_NUM	8	CONLOC_PKG_ID	OTP6-97-400001
RAD_QTY	.006	CONLOC_DT	08-13-27 21:57:45
RAD_PKG_ID	PUCK284	CONLOC_LOCN_ID	LLW_PP
RAD_ISO_NUM	13	CONLOC_PKG_ID	RHZ-101-A13568
RAD_QTY	.000004	CONLOC_DT	08-10-27 01:55:56
RAD_PKG_ID	PUCK284	CONLOC_LOCN_ID	INFDCVYRW
RAD_ISO_NUM	19	CONLOC_PKG_ID	RHZ-103-A13561
RAD_QTY	.000233	CONLOC_DT	08-10-27 02:02:46
RAD_UNKNOWN	.0000007163	CONLOC_LOCN_ID	AGVPANC_A
RAD_PKG_ID	PUCK284	RADMAT_ID	F
RAD_ISO_NUM	31	RADMAT_DESCR	WRAP 1 FACILITY
RAD_QTY	.000032	RADMAT_LIMIT	1433
RAD_PKG_ID	PUCK284	RADMAT_RAD_TOT	20
RAD_ISO_NUM	4	RADMAT_UNITS	CI
RAD_QTY	.000083	RADMAT_ALARM	N
		RADMAT_ID	R
		RADMAT_DESCR	TRU RWM GLOVEBOX

RADMAT_LIMIT 177
 RADMAT_RAD TOT 10
 RADMAT_UNITS FGE
 RADMAT_ALARM N

 RADMAT_ID T
 RADMAT_DESCR TRU GLOVEBOX
 RADMAT_LIMIT 177
 RADMAT_RAD TOT 10
 RADMAT_UNITS FGE
 RADMAT_ALARM N

 MSGLOG_DT 08-11-97 16:16:34
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 62523
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871340844"LLW_E
 XIT""1"TEST DRUM "

 MSGLOG_DT 08-11-97 16:53:56
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 62625
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871343085"LLW_S
 TORE2""1"BTST PIN #2 "

 MSGLOG_DT 08-12-97 08:35:29
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 63927
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871399578"LLW_S
 TORE2""1"BTST PIN #3 "

 MSGLOG_DT 08-12-97 08:37:48
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 63935
 MSGLOG_SPEC_TYPE CLW
 MSGLOG_STRING1 PCSDMS"CLW"871399716"LLW_
 PUCK"1"BTST PIN #3 "503"

 MSGLOG_DT 08-12-97 08:38:55
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 63941
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871399783"LLW_S
 TORE2""1"BTST PIN #3 "

 MSGLOG_DT 08-12-97 08:39:13
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 63943
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871399801"LLW_S
 TORE2""1"BTST PIN #3 "

 MSGLOG_DT 08-12-97 08:43:46
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 63957
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871400075"LLW_S
 TORE2""1"BTST PIN #3 "

 MSGLOG_DT 08-12-97 08:54:34
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 63989
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871400723"LLW_S
 TORE2""1"BTST PIN #3 "

 MSGLOG_DT 08-12-97 08:59:05

MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 64003
 MSGLOG_SPEC_TYPE PPL
 MSGLOG_STRING1 PCSDMS"PPL"871400993"LLW_
 PP"OTP6-97-300001"

 MSGLOG_DT 08-12-97 09:00:50
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 64008
 MSGLOG_SPEC_TYPE PPL
 MSGLOG_STRING1 PCSDMS"PPL"871401099"LLW_
 PP"OTP6-97-300001"

 MSGLOG_DT 08-12-97 09:06:37
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 64025
 MSGLOG_SPEC_TYPE POPD
 MSGLOG_STRING1 PCSDMS"POPD"871401446"LLW_
 _EXIT"BTST PIN #3 "TEST"

 MSGLOG_DT 08-12-97 09:09:53
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 64034
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871401641"LLW_R
 WMPRT""1"OTP-LLWR-TD-01"

 MSGLOG_DT 08-12-97 09:38:38
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 64113
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871403366"LLW_R
 WMPRT""1"OTP-LLWR-TD-01"

 MSGLOG_DT 08-12-97 10:01:19
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 64174
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871404727"LLW_E
 NTRY""1"OTP-LLW-OD-01"

 MSGLOG_DT 08-12-97 10:01:31
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE DMSPCS
 MSGLOG_SEQ_NUM 64175
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 DMSPCS"CL"LLW_ENTRY"1"OTP
 -LLW-OD-01"

 MSGLOG_DT 08-12-97 10:10:12
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 64200
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871405260"LLW_E
 NTRY""1"OTP-LLW-OD-01"

 MSGLOG_DT 08-12-97 10:10:18
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE DMSPCS
 MSGLOG_SEQ_NUM 64202
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 DMSPCS"CL"LLW_ENTRY"1"OTP
 -LLW-WP-01"

 MSGLOG_DT 08-12-97 10:20:06
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 64229
 MSGLOG_SPEC_TYPE CL

MSGLOG_STRING1	PCSDMS"CL"871405855"LLW_E XIT""1"TEST DRUM "	MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	64967 SPP PCSDMS"SPP"871422230"LLW_ SORT"97-00001-01L"OTP6-97
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 13:34:05 N PCSDMS 64747 CL PCSDMS"CL"871417493"LLW_S ORT""1"OTP-LLW-01"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 14:58:48 N PCSDMS 64982 PPL PCSDMS"PPL"871422576"LLW_ PP"OTP6-97-300001"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 14:20:40 N PCSDMS 64874 SPDP PCSDMS"SPDP"871420287"LLW_ _SORT"97-00001-01L"OTP1-0	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 15:02:47 N PCSDMS 64995 PPL PCSDMS"PPL"871422815"LLW_ PP"OTP6-97-300001"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 14:21:15 N PCSDMS 64875 SPDP PCSDMS"SPDP"871420323"LLW_ _SORT"97-00001-02L"OTP1-0	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 15:06:57 N PCSDMS 65006 PPTP PCSDMS"PPTP"871423065"LLW_ _PP"OTP6-97-300001"OTP6-9
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 14:35:51 N PCSDMS 64916 SPDP PCSDMS"SPDP"871421198"LLW_ _SORT"97-00001-02L"OTP1-0	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 15:56:19 Y PCSDMS 65141 CL PCSDMS"CL"871426026"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 14:38:35 N PCSDMS 64923 SPDP PCSDMS"SPDP"871421363"LLW_ _SORT"97-00001-02L"OTP-LL	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 16:01:58 Y PCSDMS 65159 CL PCSDMS"CL"871426365"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 14:44:25 N PCSDMS 64940 SPDP PCSDMS"SPDP"871421713"LLW_ _SORT"97-00001-01L"OTP-LL	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 16:06:10 Y PCSDMS 65171 CL PCSDMS"CL"871426617"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 14:45:19 N PCSDMS 64943 SPDP PCSDMS"SPDP"871421767"LLW_ _SORT"97-00001-02L"OTP-LL	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 16:06:12 Y PCSDMS 65173 CL PCSDMS"CL"871426618"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 14:52:42 N PCSDMS 64964 SPP PCSDMS"SPP"871422210"LLW_ SORT"97-00001-02L"OTP6-97	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 16:06:14 Y PCSDMS 65175 CL PCSDMS"CL"871426618"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE	08-12-97 14:53:02 N PCSDMS	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE	08-12-97 16:06:16 Y PCSDMS 65177 CL

MSGLOG_STRING1
PCSDMS"CL"871426623"LLW_E
T""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:20
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65179
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426627"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:22
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65181
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426628"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:24
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65183
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426629"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:26
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65185
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426629"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:28
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65187
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426631"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:30
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65189
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426631"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:12:07
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65207
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426975"LLW_P
UCK""1"OTP003"

MSGLOG_DT 08-12-97 16:59:22
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65335
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871429810"LLW_E
NTRY""1"OTP-LLW-OD-02"

MSGLOG_DT 08-12-97 16:59:44
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE DMSPCS
MSGLOG_SEQ_NUM 65336
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 DMSPCS"CL"LLW_ENTRY"1"OTP
-LLW-WP-02"

MSGLOG_DT 08-12-97 17:27:29
MSGLOG_ERROR_FLAG Y

MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

PCSDMS
65413
DCS
PCSDMS"DCS"871431497"AGVL
LWENTR"OTP-LLW-OD-02"1"

08-12-97 17:37:21
N
PCSDMS
65441
DCS
PCSDMS"DCS"871432089"LLW_
ENTRY"OTP-LLW-OD-02"1"

08-12-97 18:05:22
Y
PCSDMS
65516
CL
PCSDMS"CL"871433770"LLW_P
UCK""1"OTP001"

08-12-97 18:05:32
Y
PCSDMS
65518
CL
PCSDMS"CL"871433779"LLW_P
UCK""1"OTP010"

08-12-97 18:05:39
Y
PCSDMS
65520
CL
PCSDMS"CL"871433786"LLW_P
UCK""1"OTP001"

08-12-97 18:11:40
Y
PCSDMS
65538
CL
PCSDMS"CL"871434147"LLW_P
UCK""1"OTP011"

08-12-97 18:16:37
Y
PCSDMS
65554
CL
PCSDMS"CL"871434445"LLW_P
UCK""1"OTP001"

08-12-97 18:38:43
Y
PCSDMS
65616
CL
PCSDMS"CL"871435768"LLW_S
TORE1""1"TEST PIN #2

08-12-97 18:39:39
Y
PCSDMS
65620
CL
PCSDMS"CL"871435827"LLW_S
TORE1""1"TEST PIN #2

08-12-97 18:39:46
Y
PCSDMS
65622
CL
PCSDMS"CL"871435833"LLW_S
TORE1""1"TEST PIN #2

MSGLOG_DT 08-12-97 18:44:00
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65636
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871436088"LLW_P
UCK""1"OTP010"

MSGLOG_DT 08-12-97 18:46:58
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65646
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871436266"LLW_P
UCK""1"OTP011"

MSGLOG_DT 08-12-97 18:47:59
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65650
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871436326"LLW_P
UCK""1"OTP010"

MSGLOG_DT 08-12-97 18:51:57
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65662
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871436564"LLW_S
ORT""1"OTP-LLW-WP-01"

MSGLOG_DT 08-12-97 19:03:15
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65693
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437242"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:03:33
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65697
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437260"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:03:58
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65699
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437285"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:05:11
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65705
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437359"LLW_S
ORT""1"OTP-LLW-WP-02"

MSGLOG_DT 08-12-97 19:07:19
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65712
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437487"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:07:22
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65714
MSGLOG_SPEC_TYPE CL

MSGLOG_STRING1 PCSDMS"CL"871437490"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:07:27
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65716
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437495"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:07:42
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65718
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437510"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:07:49
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65720
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437516"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:08:07
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65724
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437534"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:08:23
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65726
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437550"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:08:53
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65730
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437581"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:09:47
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65734
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437635"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:09:57
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65736
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437644"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:11:44
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65744
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871437751"LLW_S
TORE2""1"OTP010"

MSGLOG_DT 08-12-97 19:13:28
MSGLOG_ERROR_FLAG Y

MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

PCSDMS
65750
CL
PCSDMS"CL"871437855"LLW_S
TORE2""1"OTP010"

MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

Y
PCSDMS
67432
CL
PCSDMS"CL"871500950"LLW_E
XIT""1"TEST DRUM"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-12-97 19:13:58
Y
PCSDMS
65754
CL
PCSDMS"CL"871437884"LLW_S
TORE2""1"OTP010"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-13-97 13:24:56
N
PCSDMS
67540
CL
PCSDMS"CL"871503342"LLW_E
NTRY""1"OTP-LLW-OD-03"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-12-97 19:27:21
Y
PCSDMS
65790
CL
PCSDMS"CL"871438689"LLW_P
UCK""1"OTP011"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-13-97 13:25:13
N
DMSPCS
67541
CL
DMSPCS"CL"LLW_ENTRY"1"OTP
-LLW-WP-03"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-13-97 10:35:14
N
PCSDMS
67080
RWPP
PCSDMS"RWPP"871493160"LLW
_SORT"OTP6-97-000002"OTP-

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-13-97 13:51:03
Y
PCSDMS
67612
CL
PCSDMS"CL"871504908"LLW_E
XIT""1"TEST DRUM"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-13-97 10:35:19
N
PCSDMS
67081
RWPT
PCSDMS"RWPT"871493160"LLW
_SORT"OTP6-97-000002"OTP-

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-14-97 08:47:43
N
PCSDMS
69514
CL
PCSDMS"CL"871573107"LLW_E
NTRY""1"OTP-LLW-OD-03"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-13-97 10:35:43
N
PCSDMS
67082
RWPP
PCSDMS"RWPP"871493189"LLW
_SORT"OTP6-97-000001"OTP-

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-14-97 08:48:01
N
DMSPCS
69515
CL
DMSPCS"CL"LLW_ENTRY"1"OTP
-LLW-OD-03"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-13-97 10:35:44
N
PCSDMS
67083
RWPT
PCSDMS"RWPT"871493189"LLW
_SORT"OTP6-97-000001"OTP-

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-14-97 08:48:12
N
PCSDMS
69518
CL
PCSDMS"CL"871573137"LLW_R
WPRT""1"OTP-LLWR-TD-02"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-13-97 10:36:20
N
PCSDMS
67086
RWPP
PCSDMS"RWPP"871493226"LLW
_SORT"OTP6-97-000003"OTP-

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-14-97 08:52:24
N
PCSDMS
69529
CL
PCSDMS"CL"871573388"LLW_E
NTRY""1"OTP-LLW-OD-04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-13-97 10:36:21
N
PCSDMS
67087
RWPT
PCSDMS"RWPT"871493227"LLW
_SORT"OTP6-97-000003"OTP-

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-14-97 08:52:34
N
DMSPCS
69530
CL
DMSPCS"CL"LLW_ENTRY"1"OTP
-LLW-WP-04"

MSGLOG_DT

08-13-97 12:45:05

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE

08-14-97 08:53:26
N
PCSDMS
69535
CL

MSGLOG_STRING1

PCSDMS"CL"871573451"LLW_E
RY""1"OTP-LLW-00-04"

MSGLOG_STRING1

PCSDMS"RWPP"871581457"LLW
ORT"OTP6-97-000006"OTP-MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 08:53:27
N
DMSPCS
69536
CL
DMSPCS"CL"LLW_ENTRY"1"OTP-
LLW-00-04"MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 11:06:54
N
PCSDMS
69902
RWPT
PCSDMS"RWPT"871581458"LLW
_SORT"OTP6-97-000006"OTP-MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 09:15:55
Y
PCSDMS
69597
CL
PCSDMS"CL"871574800"LLW_E
NTRY""1"OTP-LLW-00-04"MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 12:59:37
N
SIEDMS
70203
SSIE
SIEDMS"SSIE"00000010"0""MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 09:16:00
N
DMSPCS
69599
CL
DMSPCS"CL"LLW_ENTRY"1"OTP-
LLW-WP-04"MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 12:59:38
N
DMSPCS
70204
SSIE
DMSPCS"SSIE"00000010"0""MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 10:47:47
N
PCSDMS
69844
CL
PCSDMS"CL"871580311"LLW_S
ORT""1"OTP-LLW-WP-04"MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 13:09:03
N
SIEDMS
70229
SSIE
SIEDMS"SSIE"00000010"0""MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 11:05:36
N
PCSDMS
69893
RWPP
PCSDMS"RWPP"871581380"LLW
_SORT"OTP6-97-000004"OTP-MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 13:09:04
N
DMSPCS
70230
SSIE
DMSPCS"SSIE"00000010"0""MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 11:05:39
N
PCSDMS
69894
RWPT
PCSDMS"RWPT"871581381"LLW
_SORT"OTP6-97-000004"OTP-MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 13:11:27
N
SIEDMS
70239
SSIE
SIEDMS"SSIE"00000010"0""MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 11:06:24
N
PCSDMS
69897
RWPP
PCSDMS"RWPP"871581428"LLW
_SORT"OTP6-97-000005"OTP-MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 13:11:28
N
DMSPCS
70240
SSIE
DMSPCS"SSIE"00000010"0""MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 11:06:25
N
PCSDMS
69898
RWPT
PCSDMS"RWPT"871581428"LLW
_SORT"OTP6-97-000005"OTP-MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 13:17:12
N
SIEDMS
70255
SSIE
SIEDMS"SSIE"00000010"0""MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE08-14-97 11:06:53
N
PCSDMS
69901
RWPPMSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING108-14-97 13:19:21
N
SIEDMS
70263
SSIE
SIEDMS"SSIE"00000010"0""MSGLOG_DT
MSGLOG_ERROR_FLAG08-14-97 13:19:22
N

MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
DMSPCS
70264
SSIE
DMSPCS"SSIE"00000010"0"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:28:12
N
SIEDMS
70289
SSIE
SIEDMS"SSIE"00400022"1040
5"Failed to connect to a

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:28:13
N
DMSPCS
70290
SSIE
DMSPCS"SSIE"00400022"1040
5"Failed to connect to a

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:32:41
N
SIEDMS
70303
SSIE
SIEDMS"SSIE"00000010"0"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:32:42
N
DMSPCS
70304
SSIE
DMSPCS"SSIE"00000010"0"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:32:43
N
SIEDMS
70305
SSIE
SIEDMS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:32:44
N
DMSPCS
70306
SSIE
DMSPCS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:32:50
N
SIEDMS
70307
SSIE
SIEDMS"SSIE"00000010"0"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:32:51
N
DMSPCS
70308
SSIE
DMSPCS"SSIE"00000010"0"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:32:52
N
SIEDMS
70309
SSIE
SIEDMS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
08-14-97 13:32:53
N
DMSPCS
70310

MSGLOG_SPEC_TYPE
MSGLOG_STRING1
SSIE
DMSPCS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:32:59
N
SIEDMS
70311
SSIE
SIEDMS"SSIE"00000010"0"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:33:00
N
DMSPCS
70312
SSIE
DMSPCS"SSIE"00000010"0"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:33:01
N
SIEDMS
70313
SSIE
SIEDMS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:33:02
N
DMSPCS
70314
SSIE
DMSPCS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:33:04
N
SIEDMS
70315
SSIE
SIEDMS"SSIE"00000010"0"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:33:05
N
DMSPCS
70316
SSIE
DMSPCS"SSIE"00000010"0"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:33:08
N
SIEDMS
70319
SSIE
SIEDMS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:33:09
N
DMSPCS
70320
SSIE
DMSPCS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:33:11
N
SIEDMS
70321
SSIE
SIEDMS"SSIE"00000010"0"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-14-97 13:33:12
N
DMSPCS
70322
SSIE
DMSPCS"SSIE"00000010"0"

MSGLOG_DT 08-14-97 13:33:13
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE SIEDMS
MSGLOG_SEQ_NUM 70323
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 SIEDMS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT 08-14-97 13:33:14
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE DMSPCS
MSGLOG_SEQ_NUM 70324
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 DMSPCS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT 08-14-97 13:33:46
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE SIEDMS
MSGLOG_SEQ_NUM 70325
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 SIEDMS"SSIE"00000010"0""

MSGLOG_DT 08-14-97 13:33:47
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE DMSPCS
MSGLOG_SEQ_NUM 70326
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 DMSPCS"SSIE"00000010"0""

MSGLOG_DT 08-14-97 13:33:48
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE SIEDMS
MSGLOG_SEQ_NUM 70327
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 SIEDMS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT 08-14-97 13:33:49
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE DMSPCS
MSGLOG_SEQ_NUM 70328
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 DMSPCS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT 08-14-97 13:33:53
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE SIEDMS
MSGLOG_SEQ_NUM 70331
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 SIEDMS"SSIE"00000010"0""

MSGLOG_DT 08-14-97 13:33:54
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE DMSPCS
MSGLOG_SEQ_NUM 70332
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 DMSPCS"SSIE"00000010"0""

MSGLOG_DT 08-14-97 13:33:55
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE SIEDMS
MSGLOG_SEQ_NUM 70333
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 SIEDMS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT 08-14-97 13:33:56
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE DMSPCS
MSGLOG_SEQ_NUM 70334
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 DMSPCS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT 08-14-97 13:36:57

MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE SIEDMS
MSGLOG_SEQ_NUM 70343
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 SIEDMS"SSIE"00000010"0""

MSGLOG_DT 08-14-97 13:36:58
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE DMSPCS
MSGLOG_SEQ_NUM 70344
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 DMSPCS"SSIE"00000010"0""

MSGLOG_DT 08-14-97 13:36:59
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE SIEDMS
MSGLOG_SEQ_NUM 70345
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 SIEDMS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT 08-14-97 13:37:00
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE DMSPCS
MSGLOG_SEQ_NUM 70346
MSGLOG_SPEC_TYPE SSIE
MSGLOG_STRING1 DMSPCS"SSIE"00400022"1041
0"Failed to connect to a

MSGLOG_DT 08-14-97 15:19:20
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE DMSPCS
MSGLOG_SEQ_NUM 70423
MSGLOG_SPEC_TYPE FCL
MSGLOG_STRING1 DMSPCS"FCL"2.000000E+01"F

MSGLOG_DT 08-14-97 15:20:04
MSGLOG_ERROR_FLAG N
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 70426
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871596648"LLW_C
MPCT"1"OTP-LLW-WP-04"

MSGLOG_DT 08-11-97 16:16:34
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 62523
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871340844"LLW_E
XIT"1"TEST DRUM "

MSGLOG_DT 08-11-97 16:53:56
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 62625
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871343085"LLW_S
TORE1"1"TEST PIN #2 "

MSGLOG_DT 08-12-97 08:35:29
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 63927
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871399578"LLW_S
TORE2"1"BTST PIN #3 "

MSGLOG_DT 08-12-97 08:37:48
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 63935
MSGLOG_SPEC_TYPE CLW
MSGLOG_STRING1 PCSDMS"CLW"871399716"LLW_
PUCK"1"BTST PIN #3 "503

MSGLOG_DT 08-12-97 08:38:55
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 63941
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871399783"LLW_S
TORE2""1"BTST PIN #3 "

MSGLOG_DT 08-12-97 08:39:13
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 63943
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871399801"LLW_S
TORE2""1"BTST PIN #3 "

MSGLOG_DT 08-12-97 08:43:46
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 63957
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871400075"LLW_S
TORE2""1"BTST PIN #3 "

MSGLOG_DT 08-12-97 08:54:34
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 63989
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871400723"LLW_S
TORE2""1"BTST PIN #3 "

MSGLOG_DT 08-12-97 10:10:12
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 64200
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871405260"LLW_E
NTRY""1"OTP-LLW-CO-01"

MSGLOG_DT 08-12-97 10:20:06
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 64229
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871405855"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 15:56:19
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65141
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426026"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:01:58
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65159
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426365"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:10
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65171
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426617"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:12
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65173
MSGLOG_SPEC_TYPE CL

MSGLOG_STRING1 PCSDMS"CL"871426618"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:14
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65175
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426618"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:16
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65177
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426623"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:20
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65179
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426627"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:22
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65181
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426628"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:24
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65183
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426629"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:26
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65185
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426629"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:28
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65187
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426631"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:06:30
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65189
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426631"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT 08-12-97 16:12:07
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 65207
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871426975"LLW_P
UCK""1"OTP003"

MSGLOG_DT 08-12-97 17:27:29
MSGLOG_ERROR_FLAG Y

MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_DT	08-12-97 18:46:58
MSGLOG_SEQ_NUM	65413	MSGLOG_ERROR_FLAG	Y
MSGLOG_SPEC_TYPE	DCS	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_STRING1	PCSDMS"DCS"871431497"AGVL	MSGLOG_SEQ_NUM	65646
	LWENTR"OTP-LLW-OD-02"1"	MSGLOG_SPEC_TYPE	CL
		MSGLOG_STRING1	PCSDMS"CL"871436266"LLW_P
			UCK""1"OTP011"
MSGLOG_DT	08-12-97 18:05:22	MSGLOG_DT	08-12-97 18:47:59
MSGLOG_ERROR_FLAG	Y	MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	65516	MSGLOG_SEQ_NUM	65650
MSGLOG_SPEC_TYPE	CL	MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS"CL"871433770"LLW_P	MSGLOG_STRING1	PCSDMS"CL"871436326"LLW_P
	UCK""1"OTP001"		UCK""1"OTP010"
MSGLOG_DT	08-12-97 18:05:32	MSGLOG_DT	08-12-97 19:03:15
MSGLOG_ERROR_FLAG	Y	MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	65518	MSGLOG_SEQ_NUM	65693
MSGLOG_SPEC_TYPE	CL	MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS"CL"871433779"LLW_P	MSGLOG_STRING1	PCSDMS"CL"871437242"LLW_S
	UCK""1"OTP010"		TOR2""1"OTP010"
MSGLOG_DT	08-12-97 18:05:39	MSGLOG_DT	08-12-97 19:03:33
MSGLOG_ERROR_FLAG	Y	MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	65520	MSGLOG_SEQ_NUM	65697
MSGLOG_SPEC_TYPE	CL	MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS"CL"871433786"LLW_P	MSGLOG_STRING1	PCSDMS"CL"871437260"LLW_S
	UCK""1"OTP001"		TOR2""1"OTP010"
MSGLOG_DT	08-12-97 18:11:40	MSGLOG_DT	08-12-97 19:03:58
MSGLOG_ERROR_FLAG	Y	MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	65538	MSGLOG_SEQ_NUM	65699
MSGLOG_SPEC_TYPE	CL	MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS"CL"871434147"LLW_P	MSGLOG_STRING1	PCSDMS"CL"871437285"LLW_S
	UCK""1"OTP011"		TOR2""1"OTP010"
MSGLOG_DT	08-12-97 18:16:37	MSGLOG_DT	08-12-97 19:07:19
MSGLOG_ERROR_FLAG	Y	MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	65554	MSGLOG_SEQ_NUM	65712
MSGLOG_SPEC_TYPE	CL	MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS"CL"871434445"LLW_P	MSGLOG_STRING1	PCSDMS"CL"871437487"LLW_S
	UCK""1"OTP001"		TOR2""1"OTP010"
MSGLOG_DT	08-12-97 18:38:43	MSGLOG_DT	08-12-97 19:07:22
MSGLOG_ERROR_FLAG	Y	MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	65616	MSGLOG_SEQ_NUM	65714
MSGLOG_SPEC_TYPE	CL	MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS"CL"871435768"LLW_S	MSGLOG_STRING1	PCSDMS"CL"871437490"LLW_S
	TOR1""1"TEST PIN #2		TOR2""1"OTP010"
MSGLOG_DT	08-12-97 18:39:39	MSGLOG_DT	08-12-97 19:07:27
MSGLOG_ERROR_FLAG	Y	MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	65620	MSGLOG_SEQ_NUM	65716
MSGLOG_SPEC_TYPE	CL	MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS"CL"871435827"LLW_S	MSGLOG_STRING1	PCSDMS"CL"871437495"LLW_S
	TOR1""1"TEST PIN #2		TOR2""1"OTP010"
MSGLOG_DT	08-12-97 18:39:46	MSGLOG_DT	08-12-97 19:07:42
MSGLOG_ERROR_FLAG	Y	MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	65622	MSGLOG_SEQ_NUM	65718
MSGLOG_SPEC_TYPE	CL	MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS"CL"871435833"LLW_S	MSGLOG_STRING1	PCSDMS"CL"871437510"LLW_S
	TOR1""1"TEST PIN #2		TOR2""1"OTP010"
MSGLOG_DT	08-12-97 18:44:00	MSGLOG_DT	08-12-97 19:07:49
MSGLOG_ERROR_FLAG	Y	MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	65636	MSGLOG_SEQ_NUM	65720
MSGLOG_SPEC_TYPE	CL	MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS"CL"871436088"LLW_P		
	UCK""1"OTP010"		

MSGLOG_STRING1	PCSDMS"CL"871437516"LLW_S TORE2""1"OTP010"	MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	PCSDMS 67432 CL PCSDMS"CL"871500950"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 19:08:07 Y PCSDMS 65724 CL PCSDMS"CL"871437534"LLW_S TORE2""1"OTP010"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-13-97 13:51:03 Y PCSDMS 67612 CL PCSDMS"CL"871504908"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 19:08:23 Y PCSDMS 65726 CL PCSDMS"CL"871437550"LLW_S TORE2""1"OTP010"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-14-97 09:15:55 Y PCSDMS 69597 CL PCSDMS"CL"871574800"LLW_E NTRY""1"OTP-LLW-00-04"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 19:08:53 Y PCSDMS 65730 CL PCSDMS"CL"871437581"LLW_S TORE2""1"OTP010"		
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 19:09:47 Y PCSDMS 65734 CL PCSDMS"CL"871437635"LLW_S TORE2""1"OTP010"		
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 19:09:57 Y PCSDMS 65736 CL PCSDMS"CL"871437644"LLW_S TORE2""1"OTP010"		
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 19:11:44 Y PCSDMS 65744 CL PCSDMS"CL"871437751"LLW_S TORE2""1"OTP010"		
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 19:13:28 Y PCSDMS 65750 CL PCSDMS"CL"871437855"LLW_S TORE2""1"OTP010"		
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 19:13:58 Y PCSDMS 65754 CL PCSDMS"CL"871437884"LLW_S TORE2""1"OTP010"		
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-12-97 19:27:21 Y PCSDMS 65790 CL PCSDMS"CL"871438689"LLW_P UCK""1"OTP011"		
MSGLOG_DT MSGLOG_ERROR_FLAG	08-13-97 12:45:05 Y		

CASE#44

LLW-4A.818 LLW GLOVEBOX OTP DMS DATABASE FOLLOWING CASE 4 8/18/97

Case 1 not
Completed -
Records not
summed

CON_PKG_ID
CON_CNTP_CD
CON_PKG_STATUS
CON_SIZE_DESCR
CON_TARE_WGT

OTP-LLW-OD-01
DM
85 GALLON
31

Due to processing
of rescans at
(ETR) Entry.

CONEXT_PKG_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

OTP-LLW-OD-01
PD
1

RDET_PKG_ID
RDET_SWTP_GROUP

OTP-LLW-OD-01
LLW

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP-LLW-WP-01
OTP-LLW-OD-01
08-12-97 10:08:07
M

CON_PKG_ID
CON_ACCUM_DT
CON_CHEM_NATURE_CD
CON_CNTP_CD
CON_GENER_WASTE_DESCR
YYY

OTP-LLW-OD-02
08-18-97 15:56:25 ✓
10 ✓
DM ✓
XXX ✓

CON_PHYS_STATE_CD
CON_PKG_DT
CON_PKG_STATUS
CON_SWTP_CD
CON_SIZE_DESCR
CON_TARE_WGT

S ✓
08-18-97 15:56:25 ✓
08-18-97 15:56:25 ✓
N ✓
85 GALLON ✓
31 ✓

CONEXT_PKG_ID
CONEXT_CONTAM_FLAG
CONEXT_FILLER_WGT
CONEXT_PROF_FLAG
CONEXT_PROF_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

OTP-LLW-OD-02 ✓
Y ✓
10 ✓
N ✓
NRLWL1 ✓
PD ✓
I ✓

Duplicate
summed
this case?

HDET_PKG_ID
HDET_DESIG_CD
HDET_WASTE_VOL

OTP-LLW-OD-02 ✓
RE ✓
.28

RDET_PKG_ID
RDET_BG_DOSE_RATE
RDET_SWTHS_CD
RDET_SWTP_CD
RDET_SWTP_GROUP
RDET_VOID_CD
RDET_WASTE_MAKEUP
RDET_WRAP_CAT

OTP-LLW-OD-02 ✓
.2
NC ✓
2A ✓
LLW ✓
GRAVEL ✓
F ✓
CL

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

OTP-LLW-OD-02 ✓
CLOTH/RAGS/NYLON ✓
28.444 ✓
27.6 ✓

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

OTP-LLW-OD-02 ✓
CONWEB PADS ✓
23.956 ✓
127.5 ✓

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

OTP-LLW-OD-02 ✓
METAL/IRON/GALVANIZED/SHE ✓
ET ✓
4.444 ✓
81 ✓

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

OTP-LLW-OD-02 ✓
PAPER/CARDBOARD ✓
10.667 ✓
41 ✓

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

OTP-LLW-OD-02 ✓
PLASTIC/POLYURATHANE ✓
32 ✓
85.1 ✓

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

OTP-LLW-OD-02 ✓
WATER ✓
.489 ✓
3.9 ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP-LLW-WP-02 ✓
OTP-LLW-OD-02 ✓
08-19-27 22:35:12 ✓
C ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP-LLW-WP-03 ✓
OTP-LLW-OD-02 ✓
08-19-27 18:59:10 ✓
C ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP-LLW-WP-04 ✓
OTP-LLW-OD-02 ✓
08-19-27 17:02:51 ✓
C ✓

NDA_PKG_ID
NDA_DT
NDA_ASSAY_NUM
NDA_SWTP_GROUP
NDA_THERMAL_POWER

OTP-LLW-OD-02
Aug-18-97 15:55:09
3080908509
CALC20 ✓
LLW
9.33631161971830985915492 ✓
95774647887324

NDA_TOT_ALPHA_CI

0

NDA_PKG_ID
NDA_DT
NDA_ASSAY_NUM
NDA_SWTP_GROUP
NDA_THERMAL_POWER

OTP-LLW-OD-02
Aug-18-97 15:55:37
3080908537
CALC21 ✓
LLW
9.33631161971830985915492 ✓
95774647887324

NDA_TOT_ALPHA_CI

0

CON_PKG_ID
CON_CNTP_CD
CON_PKG_STATUS
CON_SIZE_DESCR
CON_TARE_WGT

OTP-LLW-OD-03
DM
85 GALLON
31

CONEXT_PKG_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

OTP-LLW-OD-03
WV
1

CON_PKG_ID
CON_CNTP_CD
CON_PKG_STATUS
CON_SIZE_DESCR
CON_TARE_WGT

OTP-LLW-OD-04
DM
85 GALLON
31

CONEXT_PKG_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

OTP-LLW-OD-04
WV
1

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP-LLW-WP-04
OTP-LLW-OD-04
08-14-97 09:07:47
M

NDE_PKG_ID
NDE_DT
NDE_COMMENTS
NDE_OPER_ID

OTP-LLW-OD-04
09-12-96 13:11:35
OTP-LLW-WP-04 1ST IMAGE
COMMENTS
USER1

No NDA's
records
ETR

from rescans should trace in p1

Manually entered
to allow for
processing of
rescan
(ETR)

NDE_VDISK_FILE
NDE_VDISK_NUM
NDE_VTAPE_NUM
NDE_VTAPE_START

NDE_PKG_ID
NDE_DT
NDE_COMMENTS

NDE_OPER_ID
NDE_VDISK_FILE
NDE_VDISK_NUM
NDE_VTAPE_NUM
NDE_VTAPE_START

CON_PKG_ID
CON_ACCUM_DT
CON_CHEM_NATURE_CD
CON_CNTR_VOL
CON_CNTRY_CD
CON_GENER_WASTE_DESCR
CON_GGRP_ID
CON_GROSS_WGT
CON_LABPACK_FLAG
CON_LOCN_FACIL_ID
CON_PHYS_STATE_CD
CON_PKG_DT
CON_PKG_STATUS
CON_PWITY_CD
CON_SAMPLE_FLAG
CON_SCAT_CD
CON_SIZE_DESCR
CON_SRCE_CHRG_CD
CON_SRCE_CHPNY_ID
CON_SRCE_CHPNY_TYPE
CON_SRCE_FACIL_ID
CON_TARE_WGT
CON_TSD_ACCEPT_DT
CON_WASTE_WGT

CONEXT_PKG_ID
CONEXT_COMPLIANT_FLAG
CONEXT_NDE_VER_FLAG
CONEXT_PROF_FLAG
CONEXT_PROF_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

HDET_PKG_ID
HDET_CNTR_STATUS
HDET_DESIG_CD
HDET_DN_NUM
HDET_WASTE_VOL
HDET_WASTE_STATUS

RDET_PKG_ID
RDET_BG_DOSE_RATE
RDET_HANDLING
RDET_RELOC_DT
RDET_RSWIMS_COUNT
RDET_SDAR_APPRV_NUM
RDET_SWIMS_CD
RDET_SWITYP_CD
RDET_SWITYP_GROUP
RDET_THERMAL_POWER
RDET_TOT_BG_CI
RDET_TOT_DE_CI
RDET_WASTE_CAT
RDET_WASTE_MAKEUP
RDET_WRAP_CAT

HAZ_PKG_ID
HAZ_COMP_ID
HAZ_COMP_TEXT
HAZ_COMP_WGT
HAZ_COMP_WGT_PCT
HAZ_EPCRA_FLAG

WP08X
P22V1
P22T1
200

OTP-LLW-00-04
09-12-96 13:12:10
OTP-LLW-WP-04 2ND IMAGE
COMMENTS
USER1
WP08Y
P22V1
P22T1
2250

OTP-LLW-WP-01
10-19-93 00:00:00
I
.21
DM
LOW LEVEL WASTE
ANL
152.7
N
2336W
S
10-19-93 00:00:00
R
M
Y
OMW
55 GALLON
TH233
ANL
GEN
ARGON
27.7
02-27-95 00:00:00
125

OTP-LLW-WP-01
Y
Y
N
NRLLW1
I

OTP-LLW-WP-01
F
RE
D008 D009
.208
U

OTP-LLW-WP-01
.1
C
09-01-96 00:00:00
1
60-1R-3YM-0401
DD
2A
LLW
3.53
.00000254
.0000097
WC1
F
SO

OTP-LLW-WP-01
7439-97-6
MERCURY
.001
.0009
N

HAZ_PKG_ID
HAZ_COMP_ID
HAZ_COMP_TEXT
HAZ_COMP_WGT
HAZ_COMP_WGT_PCT
HAZ_EPCRA_FLAG

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

PDW_PKG_ID
PDW_NUM
PDW_LANDBAN
PDW_SORT_ORDER

PDW_PKG_ID
PDW_NUM
PDW_LANDBAN
PDW_SORT_ORDER

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

NDA_PKG_ID
NDA_DT
NDA_DT
NDA_ASSAY_NUM
NDA_FUT_EVAL_REQD
NDA_ISO_TOT

OTP-LLW-WP-01
TEMP1985
LEAD
.085
.068
N

OTP-LLW-WP-01
DIRT/SOIL/DIATOMACEOUS
EARTH
86
115

OTP-LLW-WP-01
HAZARDOUS CONSTITUENTS
.5
0

OTP-LLW-WP-01
PAPER/CARDBOARD
9.5
5

OTP-LLW-WP-01
PLASTIC/POLYURATHANE
4
5

OTP-LLW-WP-01
D008
Y
808

OTP-LLW-WP-01
D009
Y
809

OTP-LLW-WP-01
104
.00000788

OTP-LLW-WP-01
18
11

OTP-LLW-WP-01
19
.00000254

OTP-LLW-WP-01
202
.0013

OTP-LLW-WP-01
203
.19

OTP-LLW-WP-01
206
25

OTP-LLW-WP-01
86
.00000254

OTP-LLW-WP-01
OTP-LLW-00-01
08-12-97 10:08:07
M

OTP-LLW-WP-01
SEP-12-96 13:13:25
3051522805
258
N
5

NDA_PROF_ID
NDA_RVST_FLAG
NDA_SWTYP_GROUP
NDA_THERMAL_POWER
NDA_TMU_ALPHA_CI
NDA_TMU_THERMAL_POWER
NDA_TOT_ALPHA_CI
NDA_WASTE_CAT

NRLLW1
N
LLW
3.5
0
.035
0
WC1

NDAISO_PKG_ID
NDAISO_DT
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

OTP-LLW-WP-01
K-40
258
.00000254
.0000000254
T
ACT
B
NO
THIS IS ONLY A TEST

NDAISO_PKG_ID
NDAISO_DT
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

OTP-LLW-WP-01
TH-232
258
11
.11
T
ACT
B
NO
THIS IS ONLY A TEST

NDAISO_PKG_ID
NDAISO_DT
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

OTP-LLW-WP-01
U-234
258
.0013
.000013
T
ACT
B
NO
THIS IS ONLY A TEST

NDAISO_PKG_ID
NDAISO_DT
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

OTP-LLW-WP-01
U-235
258
.19
.0019
T
ACT
B
NO
THIS IS ONLY A TEST

NDAISO_PKG_ID
NDAISO_DT
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

OTP-LLW-WP-01
U-238
258
25
.25
T
ACT
B
NO
THIS IS ONLY A TEST

NDE_PKG_ID
NDE_DT
NDE_COMMENTS

OTP-LLW-WP-01
09-12-96 13:05:30
OTP-LLW-WP-01 1ST IMAGE
COMMENTS

NDE_OPER_ID
NDE_VOISK_FILE
NDE_VOISK_NUM
NDE_VTAPE_NUM

USER1
WP05X
P22V1
P22T1

NDE_VTAPE_START

200

NDE_PKG_ID
NDE_DT
NDE_COMMENTS

OTP-LLW-WP-01
09-12-96 13:06:38
OTP-LLW-WP-01 2ND IMAGE
COMMENTS

NDE_OPER_ID
NDE_VOISK_FILE
NDE_VOISK_NUM
NDE_VTAPE_NUM
NDE_VTAPE_START

USER1
WP05Y
P22V1
P22T1
250

CON_PKG_ID
CON_ACCUM_DT
CON_CHEM_NATURE_CD
CON_CNTR_VOL
CON_CNTP_CD
CON_DATA_QUAL_CD
CON_GENER_WASTE_DESCR
CON_GGRP_ID
CON_GROSS_WGT
CON_LABPACK_FLAG
CON_LOCN_FACIL_ID
CON_PHYS_STATE_CD
CON_PKG_DT
CON_PKG_STATUS
CON_PWTYP_CD
CON_SAMPLE_FLAG
CON_SCAT_CD
CON_SIZE_DESCR
CON_SRCE_CHRG_CD
CON_SRCE_CHPWT_ID
CON_SRCE_CHPWT_TYPE
CON_SRCE_FACIL_ID
CON_TARE_WGT
CON_TSD_ACCEPT_DT
CON_WASTE_WGT

OTP-LLW-WP-02
07-10-91 00:00:00
10
.21
DM
AR
INNER
OTHER
170.1
N
2336W
S
07-10-91 00:00:00
R
M
N
FLC
55 GALLON
WNA60
WNC
GEN
324
27
07-10-91 00:00:00
139.34

CONEXT_PKG_ID
CONEXT_COMPLIANT_FLAG
CONEXT_NDE_VER_FLAG
CONEXT_PROF_FLAG
CONEXT_PROF_ID
CONEXT_ROUTE_CD
CONEXT_USE_CD
CONEXT_VER_GROSS_WGT
CONEXT_VER_GROSS_WGT_FLAG
CONEXT_WRAP_STAT_CD

OTP-LLW-WP-02
N
Y
N
NRLLW1
3
PU
171.1
Y
I

HDET_PKG_ID
HDET_DESTIG_CD
HDET_DW_NUM
HDET_WASTE_VOL

OTP-LLW-WP-02
RD
D002
.21

RDET_PKG_ID
RDET_BG_DOSE_RATE
RDET_HANDLING
RDET_RELOC_DT
RDET_RSWIMS_COUNT
RDET_SDAR_APPRV_NUM
RDET_SWIMS_CD
RDET_SWTYP_CD
RDET_SWTYP_GROUP
RDET_THERMAL_POWER
RDET_TOT_ALPHA_CI
RDET_TOT_BG_CI
RDET_TOT_DE_CI
RDET_TOT_PE_CI
RDET_TOT_PU_FGE
RDET_WASTE_MAKEUP
RDET_WRAP_CAT

OTP-LLW-WP-02
50
C
11-25-91 00:00:00
1
7-1A-6LM-1
NC
2A
LLW
3.53
0
0
0
0
0
F
CL

HAZ_PKG_ID
HAZ_COMP_ID
HAZ_COMP_TEXT
HAZ_COMP_WGT

OTP-LLW-WP-02
TEMP2091
LIQUID WASTE
.6

HAZ_PKG_ID
HAZ_COMP_ID
HAZ_COMP_TEXT
HAZ_COMP_WGT

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY
RAD_UNKNOWN

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

NDA_PKG_ID
NDA_DT
NDA_DT
NDA_ASSAY_NUM

OTP-LLW-WP-02
TEMP3413
SODIUM CHLORIDE
.04

OTP-LLW-WP-02
CONWEB PADS
93
127.5

OTP-LLW-WP-02
HAZARDOUS CONSTITUENTS
5
.64

OTP-LLW-WP-02
WATER
2
3.9

OTP-LLW-WP-02
12
.00033

OTP-LLW-WP-02
152
.000005

OTP-LLW-WP-02
153
.00018

OTP-LLW-WP-02
19
.035405
0

OTP-LLW-WP-02
43
.00045

OTP-LLW-WP-02
53
.00014

OTP-LLW-WP-02
56
.0003

OTP-LLW-WP-02
91
.034

OTP-LLW-WP-02
OTP6-97-000002
08-19-27 22:35:12
C

OTP-LLW-WP-02
OTP6-97-000001
08-14-27 17:26:29
S

OTP-LLW-WP-02
OTP6-97-000002
08-14-27 17:26:00
S

OTP-LLW-WP-02
OTP6-97-000003
08-14-27 17:27:06
S

OTP-LLW-WP-02
SEP-12-96 13:47:13
3051524833
265

NDA_FUT_EVAL_REQD
NDA_ISO_TOT
NDA_PROF_ID
NDA_RVST_FLAG
NDA_SWTYP_GROUP
NDA_THERMAL_POWER
NDA_TMU_ALPHA_CI
NDA_TMU_THERMAL_POWER
NDA_TOT_ALPHA_CI
NDA_WASTE_CAT

NDAISO_PKG_ID
NDAISO_DT
NDAISO_NAME
NDAISO_ASSAY_NUM
NDAISO_QTY
NDAISO_QTY_TMU
NDAISO_CONFIDENCE_CK
NDAISO_MEAS_STATUS
NDAISO_PAN_ACTIVE
NDAISO_PAN_PASSIVE
NDAISO_GEA

NDE_PKG_ID
NDE_DT
NDE_COMMENTS

NDE_OPER_ID
NDE_VDISK_FILE
NDE_VDISK_NUM
NDE_VTAPE_NUM
NDE_VTAPE_START

NDE_PKG_ID
NDE_DT
NDE_COMMENTS

NDE_OPER_ID
NDE_VDISK_FILE
NDE_VDISK_NUM
NDE_VTAPE_NUM
NDE_VTAPE_START

CON_PKG_ID
CON_ACCUM_DT
CON_CNTR_VOL
CON_CNTRY_CD
CON_DATA_QUAL_CD
CON_GENER_WASTE_DESCR
CON_GRP_ID
CON_GROSS_WGT
CON_LABPACK_FLAG
CON_LOCN_FACIL_ID
CON_PHYS_STATE_CD
CON_PKG_DT
CON_PKG_STATUS
CON_PWTYP_CD
CON_SAMPLE_FLAG
CON_SIZE_DESCR
CON_SRCE_CHRG_CD
CON_SRCE_CMPNY_ID
CON_SRCE_CMPNY_TYPE
CON_SRCE_FACIL_ID
CON_TARE_WGT
CON_TSD_ACCEPT_DT
CON_WASTE_WGT

CONEXT_PKG_ID
CONEXT_COMPLIANT_FLAG
CONEXT_NDE_VER_FLAG
CONEXT_PROF_FLAG
CONEXT_PROF_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

RDET_PKG_ID
RDET_BG_DOSE_RATE

N
1
NRLLW1
N
LLW
3.53
0
.0353
0
GTWC3

OTP-LLW-WP-02
NA-22
265
.0003
.000003
T
ACT
A
NO
THIS IS ONLY A TEST

OTP-LLW-WP-02
09-12-96 13:39:22
OTP-LLW-WP-02 1ST IMAGE
COMMENTS
USER1
WP11X
P22V1
P22T1
200

OTP-LLW-WP-02
09-12-96 13:40:09
OTP-LLW-WP-02 2ND IMAGE
COMMENTS
USER1
WP11Y
P22V1
P22T1
250

OTP-LLW-WP-03
05-29-90 00:00:00
.21
DM
AR
INNER
OTHER
163.02
N
2336W
S
05-29-90 00:00:00
R
N
55 GALLON
B80545
PNL
GEN
324
27
05-29-90 00:00:00
136

OTP-LLW-WP-03
Y
Y
N
NRLLW1
PU
I

OTP-LLW-WP-03
7

RDET_HANDLING C
RDET_RELOC_DT 05-29-90 00:00:00
RDET_RSWIMS_COUNT 1
RDET_SDAR_APPRV_NUM 2A-1A-1A-0
RDET_SWIMS_CD CE
RDET_SWTYP_CD 2A
RDET_SWTYP_GROUP LLW
RDET_THERMAL_POWER 3.53
RDET_TOT_BG_CI .01212
RDET_TOT_DE_CI 1
RDET_WASTE_MAKEUP F
RDET_WRAP_CAT DM

PHYS_PKG_ID OTP-LLW-WP-03
PHYS_COMP_DESCR CLOTH/RAGS/NYLON
PHYS_COMP_VOL_PCT 10
PHYS_COMP_WGT 14

PHYS_PKG_ID OTP-LLW-WP-03
PHYS_COMP_DESCR PAPER/CARDBOARD
PHYS_COMP_VOL_PCT 30
PHYS_COMP_WGT 41

PHYS_PKG_ID OTP-LLW-WP-03
PHYS_COMP_DESCR PLASTIC/POLYURATHANE
PHYS_COMP_VOL_PCT 60
PHYS_COMP_WGT 81

RAD_PKG_ID OTP-LLW-WP-03
RAD_ISO_NUM 19
RAD_QTY .01212
RAD_UNKNOWN .000324

RAD_PKG_ID OTP-LLW-WP-03
RAD_ISO_NUM 3
RAD_QTY .00006

RAD_PKG_ID OTP-LLW-WP-03
RAD_ISO_NUM 8
RAD_QTY .006

CONR_FROM_PKG_ID OTP-LLW-WP-03
CONR_TO_PKG_ID OTP-LLW-WP-03
CONR_DT 08-19-27 18:59:10
CONR_REL_CD C

NDA_PKG_ID OTP-LLW-WP-03
NDA_DT SEP-12-96 13:34:22
NDA_DT 3051524062
NDA_ASSAY_NUM 262
NDA_FUT_EVAL_READ N
NDA_ISO_TOT 2
NDA_PROF_ID NRLLW1
NDA_RVST_FLAG N
NDA_SWTYP_GROUP LLW
NDA_THERMAL_POWER 5.45
NDA_TMU_ALPHA_CI 0
NDA_TMU_THERMAL_POWER .0545
NDA_TOT_ALPHA_CI 0
NDA_WASTE_CAT GTWC3

NDAISO_PKG_ID OTP-LLW-WP-03
NDAISO_DT CS-137
NDAISO_NAME 262
NDAISO_ASSAY_NUM .006
NDAISO_QTY .00006
NDAISO_QTY_TMU T
NDAISO_CONFIDENCE_CHK ACT
NDAISO_MEAS_STATUS B
NDAISO_PAN_ACTIVE NO
NDAISO_PAN_PASSIVE THIS IS ONLY A TEST
NDAISO_GEA

NDAISO_PKG_ID OTP-LLW-WP-03
NDAISO_DT SR-90
NDAISO_NAME 262
NDAISO_ASSAY_NUM

NDAISO_QTY .00006
NDAISO_QTY_TMU .0000006
NDAISO_CONFIDENCE_CHK T
NDAISO_MEAS_STATUS ACT
NDAISO_PAN_ACTIVE B
NDAISO_PAN_PASSIVE NO
NDAISO_GEA THIS IS ONLY A TEST

NDE_PKG_ID OTP-LLW-WP-03
NDE_DT 09-12-96 13:31:45
NDE_COMMENTS OTP-LLW-WP-03 1ST IMAGE
NDE_OPER_ID USER1
NDE_VDISK_FILE WP04X
NDE_VDISK_NUM P22V1
NDE_VTAPE_NUM P22T1
NDE_VTAPE_START 200

NDE_PKG_ID OTP-LLW-WP-03
NDE_DT 09-12-96 13:33:16
NDE_COMMENTS OTP-LLW-WP-03 2ND IMAGE
NDE_OPER_ID USER1
NDE_VDISK_FILE WP04Y
NDE_VDISK_NUM P22V1
NDE_VTAPE_NUM P22T1
NDE_VTAPE_START 250

CON_PKG_ID OTP-LLW-WP-04
CON_ACCUM_DT 07-05-90 00:00:00
CON_CNTR_VOL .21
CON_CNTYP_CD DM
CON_DATA_QUAL_CD AR
CON_GENER_WASTE_DESCR INNER
CON_GRP_ID OTHER
CON_GROSS_WGT 358.34
CON_LABPACK_FLAG N
CON_LOCN_FACIL_ID 2336W
CON_PHYS_STATE_CD S
CON_PKG_DT 07-05-90 00:00:00
CON_PKG_STATUS R
CON_PWTYP_CD M
CON_SAMPLE_FLAG N
CON_SCAT_CD OMW
CON_SIZE_DESCR 55 GALLON
CON_SRCE_CHRG_CD B3314
CON_SRCE_CMPNY_ID WHC
CON_SRCE_CMPNY_TYPE GEN
CON_SRCE_FACIL_ID 324
CON_TARE_WGT 27
CON_TSD_ACCEPT_DT 07-05-90 00:00:00
CON_WASTE_WGT 32.1

CONEXT_PKG_ID OTP-LLW-WP-04
CONEXT_COMPLIANT_FLAG Y
CONEXT_NDE_VER_FLAG Y
CONEXT_PROF_FLAG N
CONEXT_PROF_ID NRLLW1
CONEXT_USE_CD PU
CONEXT_WRAP_STAT_CD I

HDET_PKG_ID OTP-LLW-WP-04
HDET_DESIG_CD RE
HDET_DW_NUM D008 WT01
HDET_WASTE_VOL .07

RDET_PKG_ID OTP-LLW-WP-04
RDET_ASSAY_DT 07-10-49 00:00:00
RDET_BG_DOSE_RATE 2
RDET_HANDLING C
RDET_RELOC_DT 08-10-93 00:00:00
RDET_RSWIMS_COUNT 1
RDET_SDAR_APPRV_NUM 4-1A-7VM-0
RDET_SWIMS_CD DS
RDET_SWTYP_CD 2A
RDET_SWTYP_GROUP LLW
RDET_THERMAL_POWER 3.53

RDET TOT ALPHA_CI	0	RAD_ISO_NUM	9
RDET TOT BG_CI	0	RAD_QTY	.000001
RDET TOT DE_CI	0		
RDET TOT PE_CI	0	CONR_FROM_PKG_ID	OTP-LLW-WP-04
RDET TOT PU_FGE	0	CONR_TO_PKG_ID	OTP-LLW-OD-02
RDET WASTE MAKEUP	F	CONR_DT	08-19-27 17:02:51
RDET WRAP_CAT	PB	CONR_REL_CD	C
HAZ_PKG_ID	OTP-LLW-WP-04	CONR_FROM_PKG_ID	OTP-LLW-WP-04
HAZ_COMP_ID	TEMP0440	CONR_TO_PKG_ID	OTP-LLW-OD-04
HAZ_COMP_TEXT	ACID	CONR_DT	08-14-97 09:07:47
HAZ_COMP_WGT	1.5	CONR_REL_CD	M
HAZ_COMP_WGT_PCT	5		
HAZ_PKG_ID	OTP-LLW-WP-04	CONR_FROM_PKG_ID	OTP-LLW-WP-04
HAZ_COMP_ID	TEMP1985	CONR_TO_PKG_ID	OTP6-97-000004
HAZ_COMP_TEXT	LEAD	CONR_DT	08-15-27 17:56:20
HAZ_COMP_WGT	8.9	CONR_REL_CD	S
HAZ_COMP_WGT_PCT	28		
HAZ_PKG_ID	OTP-LLW-WP-04	CONR_FROM_PKG_ID	OTP-LLW-WP-04
HAZ_COMP_ID	TEMP2628	CONR_TO_PKG_ID	OTP6-97-000005
HAZ_COMP_TEXT	OIL	CONR_DT	08-15-27 17:57:08
HAZ_COMP_WGT	1.9	CONR_REL_CD	S
HAZ_COMP_WGT_PCT	6		
HAZ_PKG_ID	OTP-LLW-WP-04	CONR_FROM_PKG_ID	OTP-LLW-WP-04
HAZ_COMP_ID	TEMP3530	CONR_TO_PKG_ID	OTP6-97-000006
HAZ_COMP_TEXT	SOLVENTS	CONR_DT	08-15-27 17:57:37
HAZ_COMP_WGT	2.1	CONR_REL_CD	S
HAZ_COMP_WGT_PCT	6		
PHYS_PKG_ID	OTP-LLW-WP-04	NDA_PKG_ID	OTP-LLW-WP-04
PHYS_COMP_DESCR	CLOTH/RAGS/NYLON	NDA_DT	SEP-12-96 13:18:27
PHYS_COMP_VOL_PCT	48	NDA_DT	<3051523107>
PHYS_COMP_WGT	13.6	NDA_ASSAY_NUM	261
		NDA_FUT_EVAL_READ	N
		NDA_ISO_TOT	4
		NDA_PROF_ID	NRLWL1
		NDA_RVST_FLAG	N
		NDA_SWIYP_GROUP	LLW
		NDA_THERMAL_POWER	5.45
		NDA_TMU_ALPHA_CI	0
		NDA_TMU_THERMAL_POWER	.0545
		NDA_TOT_ALPHA_CI	0
		NDA_WASTE_CAT	GTWC3
PHYS_PKG_ID	OTP-LLW-WP-04	NDAISO_PKG_ID	OTP-LLW-WP-04
PHYS_COMP_DESCR	PLASTIC/POLYURATHANE	NDAISO_DT	
PHYS_COMP_VOL_PCT	20	NDAISO_NAME	CO-60
PHYS_COMP_WGT	4.1	NDAISO_ASSAY_NUM	261
		NDAISO_QTY	.000004
		NDAISO_QTY_TMU	.00000004
		NDAISO_CONFIDENCE_CK	T
		NDAISO_MEAS_STATUS	ACT
		NDAISO_PAN_ACTIVE	A
		NDAISO_PAN_PASSIVE	NO
		NDAISO_GEA	THIS IS ONLY A TEST
RAD_PKG_ID	OTP-LLW-WP-04	NDAISO_PKG_ID	OTP-LLW-WP-04
RAD_ISO_NUM	13	NDAISO_DT	
RAD_QTY	.000004	NDAISO_NAME	CS-137
		NDAISO_ASSAY_NUM	261
		NDAISO_QTY	.000013
		NDAISO_QTY_TMU	.00000013
		NDAISO_CONFIDENCE_CK	T
		NDAISO_MEAS_STATUS	ACT
		NDAISO_PAN_ACTIVE	A
		NDAISO_PAN_PASSIVE	NO
		NDAISO_GEA	THIS IS ONLY A TEST
RAD_PKG_ID	OTP-LLW-WP-04	NDAISO_PKG_ID	OTP-LLW-WP-04
RAD_ISO_NUM	31	NDAISO_DT	
RAD_QTY	.000032	NDAISO_NAME	EU-154
		NDAISO_ASSAY_NUM	261
		NDAISO_QTY	.000002
		NDAISO_QTY_TMU	.00000002
		NDAISO_CONFIDENCE_CK	T
		NDAISO_MEAS_STATUS	ACT
		NDAISO_PAN_ACTIVE	A
		NDAISO_PAN_PASSIVE	NO
		NDAISO_GEA	
RAD_PKG_ID	OTP-LLW-WP-04	NDAISO_PKG_ID	OTP-LLW-WP-04
RAD_ISO_NUM	53	NDAISO_DT	
RAD_QTY	.000001	NDAISO_NAME	EU-154
		NDAISO_ASSAY_NUM	261
		NDAISO_QTY	.000002
		NDAISO_QTY_TMU	.00000002
		NDAISO_CONFIDENCE_CK	T
		NDAISO_MEAS_STATUS	ACT
		NDAISO_PAN_ACTIVE	A
		NDAISO_PAN_PASSIVE	NO
RAD_PKG_ID	OTP-LLW-WP-04	NDAISO_PKG_ID	OTP-LLW-WP-04
RAD_ISO_NUM	8	NDAISO_DT	
RAD_QTY	.000013	NDAISO_NAME	EU-154
		NDAISO_ASSAY_NUM	261
		NDAISO_QTY	.000002
		NDAISO_QTY_TMU	.00000002
		NDAISO_CONFIDENCE_CK	T
		NDAISO_MEAS_STATUS	ACT
		NDAISO_PAN_ACTIVE	A
		NDAISO_PAN_PASSIVE	NO
RAD_PKG_ID	OTP-LLW-WP-04	NDAISO_PKG_ID	OTP-LLW-WP-04
		NDAISO_DT	
		NDAISO_NAME	EU-154
		NDAISO_ASSAY_NUM	261
		NDAISO_QTY	.000002
		NDAISO_QTY_TMU	.00000002
		NDAISO_CONFIDENCE_CK	T
		NDAISO_MEAS_STATUS	ACT
		NDAISO_PAN_ACTIVE	A
		NDAISO_PAN_PASSIVE	NO

NDAISO_GEA : THIS IS ONLY A TEST
 NDAISO_PKG_ID OTP-LLW-WP-04
 NDAISO_DT
 NDAISO_NAME EU-155
 NDAISO_ASSAY_NUM 261
 NDAISO_QTY .000032
 NDAISO_QTY_TMU .00000032
 NDAISO_CONFIDENCE_CD T
 NDAISO_MEAS_STATUS ACT
 NDAISO_PAN_ACTIVE A
 NDAISO_PAN_PASSIVE NO
 NDAISO_GEA THIS IS ONLY A TEST

CON_PKG_ID OTP002
 CON_ACCUM_DT 07-10-91 00:00:00
 CON_CHEM_NATURE_CD IO
 CON_CNTR_VOL .21
 CON_CNTRY_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER
 CON_GGRP_ID OTHER
 CON_GROSS_WGT 31 ✓
 CON_LABPACK_FLAG N
 CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 07-10-91 00:00:00
 CON_PKG_STATUS R
 CON_PWTYP_CD N
 CON_SAMPLE_FLAG N
 CON_SCAT_CD FLC
 CON_SEC_PKG_ID OTP-LLW-WP-02
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD WM450
 CON_SRCE_CMPNT_ID WMC
 CON_SRCE_CMPNT_TYPE GEN
 CON_SRCE_FACIL_ID 324
 CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 07-10-91 00:00:00
 CON_WASTE_WGT 139.34

CONEXT_PKG_ID OTP002
 CONEXT_COMPLIANT_FLAG N
 CONEXT_HEIGHT .21 ✓
 CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1
 CONEXT_ROUTE_CD 3
 CONEXT_USE_CD WP
 CONEXT_VER_GROSS_WGT 171.1
 CONEXT_VER_GROSS_WGT_FLAG Y
 CONEXT_WRAP_STAT_CD I

HDET_PKG_ID OTP002
 HDET_DESTG_CD RD
 HDET_DW_NUM D002
 HDET_WASTE_VOL .21

RDET_PKG_ID OTP002
 RDET_BG_DOSE_RATE 50
 RDET_HANDLING C
 RDET_RELOC_DT 11-25-91 00:00:00
 RDET_RSWIMS_COUNT 1
 RDET_SDAR_APPRV_NUM 7-1A-6LM-1
 RDET_SWIMS_CD NC
 RDET_SWTYP_CD 2A
 RDET_SWTYP_GROUP LLW
 RDET_THERMAL_POWER 3.53
 RDET_TOT_ALPHA_CI 0
 RDET_TOT_BG_CI 0
 RDET_TOT_DE_CI 0
 RDET_TOT_PE_CI 0
 RDET_TOT_PU_FGE 0
 RDET_WASTE_MAKEUP F
 RDET_WRAP_CAT CL

PHYS_PKG_ID OTP002
 PHYS_COMP_DESCR CONWEB PADS
 PHYS_COMP_VOL_PCT 98
 PHYS_COMP_WGT 127.5

PHYS_PKG_ID OTP002
 PHYS_COMP_DESCR WATER
 PHYS_COMP_VOL_PCT 2 ✓
 PHYS_COMP_WGT 3.9

RAD_PKG_ID OTP002
 RAD_ISO_NUM 12
 RAD_QTY .00033

RAD_PKG_ID OTP002
 RAD_ISO_NUM 152
 RAD_QTY .000005

RAD_PKG_ID OTP002
 RAD_ISO_NUM 153
 RAD_QTY .00018

RAD_PKG_ID OTP002
 RAD_ISO_NUM 19
 RAD_QTY .035405
 RAD_UNKNOWN 0

RAD_PKG_ID OTP002
 RAD_ISO_NUM 43
 RAD_QTY .00045

RAD_PKG_ID OTP002
 RAD_ISO_NUM 53
 RAD_QTY .00014

RAD_PKG_ID OTP002
 RAD_ISO_NUM 56
 RAD_QTY .0003

RAD_PKG_ID OTP002
 RAD_ISO_NUM 91
 RAD_QTY .034

CON_PKG_ID OTP003
 CON_ACCUM_DT 05-29-90 00:00:00
 CON_CNTR_VOL .21

CON_CNTRY_CD DM
 CON_DATA_QUAL_CD AR
 CON_GENER_WASTE_DESCR INNER

CON_GGRP_ID OTHER
 CON_GROSS_WGT 31 ✓
 CON_LABPACK_FLAG N

CON_LOCN_FACIL_ID 2336W
 CON_PHYS_STATE_CD S
 CON_PKG_DT 05-29-90 00:00:00

CON_PKG_STATUS R ✓
 CON_PWTYP_CD R ✓
 CON_SAMPLE_FLAG N

CON_SEC_PKG_ID OTP-LLW-WP-03 ✓
 CON_SIZE_DESCR 55 GALLON
 CON_SRCE_CHRG_CD B80545

CON_SRCE_CMPNT_ID PNL
 CON_SRCE_CMPNT_TYPE GEN
 CON_SRCE_FACIL_ID 324

CON_TARE_WGT 27
 CON_TSD_ACCEPT_DT 05-29-90 00:00:00
 CON_WASTE_WGT 136

CONEXT_PKG_ID OTP003
 CONEXT_COMPLIANT_FLAG Y
 CONEXT_HEIGHT .3

CONEXT_NDE_VER_FLAG Y
 CONEXT_PROF_FLAG N
 CONEXT_PROF_ID NRLLW1

CONEXT_USE_CD WP
 CONEXT_WRAP_STAT_CD I

RDET_PKG_ID
RDET_BG_DOSE_RATE
RDET_HANDLING
RDET_RELOC_DT
RDET_RSWIMS_COUNT
RDET_SDAR_APPRV_NUM
RDET_SWIMS_CD
RDET_SWTYP_CD
RDET_SWTYP_GROUP
RDET_THERMAL_POWER
RDET_TOT_BG_C1
RDET_TOT_DE_C1
RDET_WASTE_MAKEUP
RDET_WRAP_CAT

OTP003
7
C
05-29-90 00:00:00
1
2A-1A-1A-0
CE
2A
LLW
3.53
.01212
1
F
DM

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

OTP003
CLOTH/RAGS/NYLON
10
14

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

OTP003
PAPER/CARDBOARD
30
41

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

OTP003
PLASTIC/POLYURATHANE
60
81

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY
RAD_UNKNOWN

OTP003
19
.01212
.000324

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

OTP003
3
.00006

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

OTP003
8
.006

CON_PKG_ID
CON_ACCUM_DT
CON_CNTR_VOL
CON_CNTP_CD
CON_DATA_QUAL_CD
CON_GENER_WASTE_DESCR
CON_GGRP_ID
CON_GROSS_WGT
CON_LABPACK_FLAG
CON_LOCN_FACIL_ID
CON_PHYS_STATE_CD
CON_PKG_DT
CON_PKG_STATUS
CON_PWTP_CD
CON_SAMPLE_FLAG
CON_SCAT_CD
CON_SEC_PKG_ID
CON_SIZE_DESCR
CON_SRCE_CHRG_CD
CON_SRCE_CMPNY_ID
CON_SRCE_CMPNY_TYPE
CON_SRCE_FACIL_ID
CON_TARE_WGT
CON_TSD_ACCEPT_DT
CON_WASTE_WGT

OTP004
07-05-90 00:00:00
.21
DM
AR
INNER
OTHER
32
N
2336W
S
07-05-90 00:00:00
R
M ETR
N
OMW
OTP-LLW-WP-04
55 GALLON
B3314
WHC
GEN
324
27
07-05-90 00:00:00
32.1

CONEXT_PKG_ID
CONEXT_COMPLIANT_FLAG
CONEXT_HEIGHT
CONEXT_NDE_VER_FLAG
CONEXT_PROF_FLAG
CONEXT_PROF_ID
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

OTP004
N
.3
Y
N
NRLLW1
WP
I

HDET_PKG_ID
HDET_DESTG_CD
HDET_DW_NUM
HDET_WASTE_VOL

OTP004
RE
D008 WT01
.07

RDET_PKG_ID
RDET_ASSAY_DT
RDET_BG_DOSE_RATE
RDET_HANDLING
RDET_RELOC_DT
RDET_RSWIMS_COUNT
RDET_SDAR_APPRV_NUM
RDET_SWIMS_CD
RDET_SWTYP_CD
RDET_SWTYP_GROUP
RDET_THERMAL_POWER
RDET_TOT_ALPHA_C1
RDET_TOT_BG_C1
RDET_TOT_DE_C1
RDET_TOT_PE_C1
RDET_TOT_PU_FGE
RDET_WASTE_MAKEUP
RDET_WRAP_CAT

OTP004
07-10-49 00:00:00
2
C
08-10-93 00:00:00
1
4-1A-7VM-0
DS
2A
LLW
3.53
0
0
0
0
0
F
PB

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

OTP004
CLOTH/RAGS/NYLON
70
13.6

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

OTP004
PLASTIC/POLYURATHANE
30
4.1

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

OTP004
13
.000004

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY
RAD_UNKNOWN

OTP004
19
.000233
.0000007163

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

OTP004
31
.000032

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

OTP004
4
.000083

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

OTP004
40
.000002

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

OTP004
53
.000001

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

OTP004
8
.000013

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

OTP004
9
.000001

CON_PKG_ID
CON_CNTP_CD
CON_LOCN_FACIL_ID
CON_PKG_STATUS
CON_SCAT_CD
CON_SIZE_DESCR
CON_TARE_WGT

OTP-LLWR-TD-01
DM
2336W
G
ANY
85 GALLON
31

CONEXT_PKG_ID
CONEXT_CNTR_STATUS

OTP-LLWR-TD-01
P

CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

TD ✓
I ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP6-97-000001 ✓
OTP-LLWR-TD-01 ✓
08-14-27 17:26:29
0 ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP6-97-000002 ✓
OTP-LLWR-TD-01 ✓
08-14-27 17:26:00
0 ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP6-97-000003 ✓
OTP-LLWR-TD-01 ✓
08-14-27 17:27:07
0 ✓

CON_PKG_ID
CON_CNTP_CD
CON_LOCN_FACIL_ID
CON_PKG_STATUS
CON_SCAT_CD
CON_SIZE_DESCR
CON_TARE_WGT

OTP-LLWR-TD-02 ✓
DM ✓
2336W ✓
G ✓
ANY ✓
85 GALLON ✓
31 ✓

CONEXT_PKG_ID
CONEXT_CNTR_STATUS
CONEXT_USE_CD
CONEXT_WRAP_STAT_CD

OTP-LLWR-TD-02 ✓
P ✓
TD ✓
I ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP6-97-000004 ✓
OTP-LLWR-TD-02 ✓
08-15-27 17:56:21
0 ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP6-97-000005 ✓
OTP-LLWR-TD-02 ✓
08-15-27 17:57:08
0 ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP6-97-000006 ✓
OTP-LLWR-TD-02 ✓
08-15-27 17:57:38
0 ✓

CON_PKG_ID
CON_GENER_WASTE_DESCR

OTP6-97-000001 ✓
AEROSOL CAN OF SALINE
SOLUTION ✓

CONEXT_PKG_ID
CONEXT_MAT_GRP_CD
CONEXT_USE_CD

OTP6-97-000001 ✓
AC ✓
PK ✓

RDET_PKG_ID
RDET_SWTYP_CD
RDET_SWTYP_GROUP

OTP6-97-000001 ✓
2A ✓
LLW ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP-LLW-WP-02 ✓
OTP6-97-000001 ✓
08-14-27 17:26:29
S ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP6-97-000001 ✓
OTP-LLWR-TD-01 ✓
08-14-27 17:26:29
0 ✓

CON_PKG_ID
CON_GENER_WASTE_DESCR

OTP6-97-000002 ✓
AEROSOL CAN OF SALINE
SOLUTION ✓

CONEXT_PKG_ID
CONEXT_MAT_GRP_CD
CONEXT_USE_CD

OTP6-97-000002 ✓
AC ✓
PK ✓

RDET_PKG_ID

OTP6-97-000002

RDET_SWTYP_CD
RDET_SWTYP_GROUP

2A
LLW ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP-LLW-WP-02 ✓
OTP6-97-000002 ✓
08-14-27 17:26:00
S ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP6-97-000002 ✓
OTP-LLWR-TD-01 ✓
08-14-27 17:26:00
0 ✓

CON_PKG_ID
CON_GENER_WASTE_DESCR

OTP6-97-000003 ✓
AEROSOL CAN OF UNKNOWN ✓

CONEXT_PKG_ID
CONEXT_MAT_GRP_CD
CONEXT_USE_CD

OTP6-97-000003 ✓
AC ✓
PK ✓

RDET_PKG_ID
RDET_SWTYP_CD
RDET_SWTYP_GROUP

OTP6-97-000003 ✓
2A ✓
LLW ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP-LLW-WP-02 ✓
OTP6-97-000003 ✓
08-14-27 17:27:06
S ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP6-97-000003 ✓
CONR_TO_PKG_ID ✓
08-14-27 17:27:07
0 ✓

CON_PKG_ID
CON_GENER_WASTE_DESCR

OTP6-97-000004 ✓
LEAD BRICK ✓

CONEXT_PKG_ID
CONEXT_MAT_GRP_CD
CONEXT_USE_CD

OTP6-97-000004 ✓
PB ✓
PK ✓

RDET_PKG_ID
RDET_SWTYP_CD
RDET_SWTYP_GROUP

OTP6-97-000004 ✓
2A ✓
LLW ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP-LLW-WP-04 ✓
OTP6-97-000004 ✓
08-15-27 17:56:20
S ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP6-97-000004 ✓
OTP-LLWR-TD-02 ✓
08-15-27 17:56:21
0 ✓

CON_PKG_ID
CON_GENER_WASTE_DESCR

OTP6-97-000005 ✓
BOTTLE OF OIL & BOTTLE OF
SOLVENT ✓

CONEXT_PKG_ID
CONEXT_MAT_GRP_CD
CONEXT_USE_CD

OTP6-97-000005 ✓
LQ ✓
PK ✓

RDET_PKG_ID
RDET_SWTYP_CD
RDET_SWTYP_GROUP

OTP6-97-000005 ✓
2A ✓
LLW ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP-LLW-WP-04 ✓
OTP6-97-000005 ✓
08-15-27 17:57:08
S ✓

CONR_FROM_PKG_ID
CONR_TO_PKG_ID
CONR_DT
CONR_REL_CD

OTP6-97-000005 ✓
OTP-LLWR-TD-02 ✓
08-15-27 17:57:08
0 ✓

CON_PKG_ID OTP6-97-000006 /
CON_GENER_WASTE_DESCR BOTTLE OF ACID /
CONEXT_PKG_ID OTP6-97-000006 /
CONEXT_MAT_GRP_CD LQ /
CONEXT_USE_CD PK /

RDET_PKG_ID OTP6-97-000006 /
RDET_SWTYP_CD 2A /
RDET_SWTYP_GROUP LLW /

CONR_FROM_PKG_ID OTP-LLW-WP-04 /
CONR_TO_PKG_ID OTP6-97-000006 /
CONR_DT 08-15-27 17:57:37 /
CONR_REL_CD S /

CONR_FROM_PKG_ID OTP6-97-000006 /
CONR_TO_PKG_ID OTP-LLWR-ID-02 /
CONR_DT 08-15-27 17:57:38 /
CONR_REL_CD O /

CON_PKG_ID OTP6-97-300001
CONEXT_PKG_ID OTP6-97-300001
CONEXT_USE_CD PP

CONR_FROM_PKG_ID OTP6-97-300001 /
CONR_TO_PKG_ID OTP6-97-400001 /
CONR_DT 08-13-27 21:57:45 /
CONR_REL_CD O /

CON_PKG_ID OTP6-97-400001
CON_PKG_DT 08-13-27 21:57:45
CON_PKG_STATUS G

CONEXT_PKG_ID OTP6-97-400001
CONEXT_USE_CD TP

CONR_FROM_PKG_ID OTP6-97-300001
CONR_TO_PKG_ID OTP6-97-400001
CONR_DT 08-13-27 21:57:45
CONR_REL_CD O

CON_PKG_ID PUCK278
CON_ACCUM_DT 10-19-93 00:00:00
CON_CHEM_NATURE_CD I
CON_CNTR_VOL .21
CON_CNTYP_CD DM
CON_GENER_WASTE_DESCR LOW LEVEL WASTE
CON_GRP_ID ANL
CON_GROSS_WGT 152.7
CON_LABPACK_FLAG N
CON_LOCN_FACIL_ID 2336W
CON_PHYS_STATE_CD S
CON_PKG_DT 10-19-93 00:00:00
CON_PKG_STATUS R
CON_PWTYP_CD M
CON_SAMPLE_FLAG Y
CON_SCAT_CD OMW
CON_SEC_PKG_ID OTP-LLW-WP-01
CON_SIZE_DESCR 55 GALLON
CON_SRCE_CHRG_CD TH233
CON_SRCE_CMPNY_ID ANL
CON_SRCE_CMPNY_TYPE GEN
CON_SRCE_FACIL_ID ARGON
CON_TARE_WGT 27.7
CON_TSD_ACCEPT_DT 02-27-95 00:00:00
CON_WASTE_WGT 125

CON_PKG_ID PUCK278
CON_CNTYP_CD DM
CON_PKG_STATUS R
CON_SAMPLE_FLAG Y
CON_SCAT_CD OMW
CON_SEC_PKG_ID OTP-LLW-WP-01
CON_SIZE_DESCR 55 GALLON
CON_SRCE_CHRG_CD TH233
CON_SRCE_CMPNY_ID ANL
CON_SRCE_CMPNY_TYPE GEN
CON_SRCE_FACIL_ID ARGON
CON_TARE_WGT 27.7
CON_TSD_ACCEPT_DT 02-27-95 00:00:00
CON_WASTE_WGT 125

CON_PKG_ID PUCK279
CON_CNTYP_CD DM
CON_PKG_STATUS R
CON_SAMPLE_FLAG Y
CON_SCAT_CD OMW
CON_SEC_PKG_ID OTP-LLW-WP-01
CON_SIZE_DESCR 55 GALLON
CON_SRCE_CHRG_CD TH233
CON_SRCE_CMPNY_ID ANL
CON_SRCE_CMPNY_TYPE GEN
CON_SRCE_FACIL_ID ARGON
CON_TARE_WGT 27.7
CON_TSD_ACCEPT_DT 02-27-95 00:00:00
CON_WASTE_WGT 125

CON_PKG_ID PUCK283

CON_CNTYP_CD DM
CON_PKG_STATUS R
CON_SEC_PKG_ID OTP-LLW-WP-01
CON_SIZE_DESCR 85 GALLON
CON_TARE_WGT 31

CON_PKG_ID PUCK285
CON_CNTYP_CD DM
CON_PKG_STATUS R
CON_SEC_PKG_ID OTP-LLW-WP-01
CON_SIZE_DESCR 85 GALLON
CON_TARE_WGT 31

CONEXT_PKG_ID PUCK278
CONEXT_COMPLIANT_FLAG Y
CONEXT_MDE_VER_FLAG Y
CONEXT_PROF_FLAG N
CONEXT_PROF_ID NRLLW1
CONEXT_USE_CD WP
CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID PUCK279
CONEXT_USE_CD EC
CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID PUCK283
CONEXT_USE_CD EC
CONEXT_WRAP_STAT_CD I

CONEXT_PKG_ID PUCK285
CONEXT_USE_CD EC
CONEXT_WRAP_STAT_CD I

HDET_PKG_ID PUCK278
HDET_CNTR_STATUS F
HDET_DESIG_CD RE
HDET_DW_NUM D008 D009
HDET_WASTE_VOL .208
HDET_WASTE_STATUS U

RDET_PKG_ID PUCK278
RDET_BG_DOSE_RATE .1
RDET_HANDLING C
RDET_RELOC_DT 09-01-96 00:00:00
RDET_RSWIMS_COUNT 1
RDET_SDAR_APPRV_NUM 60-1R-3YM-0401
RDET_SWIMS_CD DD
RDET_SWTYP_CD 2A
RDET_SWTYP_GROUP LLW
RDET_THERMAL_POWER 3.53
RDET_TOT_BG_C1 .00000254
RDET_TOT_DE_C1 .0000097
RDET_WASTE_CAT WC1
RDET_WASTE_MAKEUP F
RDET_WRAP_CAT SO

HAZ_PKG_ID PUCK278
HAZ_COMP_ID 7439-97-6
HAZ_COMP_TEXT MERCURY
HAZ_COMP_WGT .001
HAZ_COMP_WGT_PCT .0009
HAZ_EPCRA_FLAG N

HAZ_PKG_ID PUCK278
HAZ_COMP_ID TEMP1985
HAZ_COMP_TEXT LEAD
HAZ_COMP_WGT .085
HAZ_COMP_WGT_PCT .068
HAZ_EPCRA_FLAG N

PHYS_PKG_ID PUCK278
PHYS_COMP_DESCR DIRT/SOIL/DIATOMACEOUS
EARTH
PHYS_COMP_VOL_PCT 86
PHYS_COMP_WGT 115

PHYS_PKG_ID PUCK278

PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

HAZARDOUS CONSTITUENTS
.5
0

CONLOC_PKG_ID
CONLOC_DT
CONLOC_LOCN_ID

RHZ-101-A13568
08-19-27 16:24:20
DISCHCVR

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

PUCK278
PAPER/CARDBOARD
9.5
5

CONLOC_PKG_ID
CONLOC_DT
CONLOC_LOCN_ID

RHZ-103-A13561
08-10-27 02:02:46
AGVPANC_A

*NDA
Noting*

PHYS_PKG_ID
PHYS_COMP_DESCR
PHYS_COMP_VOL_PCT
PHYS_COMP_WGT

PUCK278
PLASTIC/POLYURATHANE
4
5

RADMAT_ID
RADMAT_DESCR
RADMAT_LIMIT
RADMAT_RAD_TOT
RADMAT_UNITS
RADMAT_ALARM

F
WRAP 1 FACILITY
1433
123.456789
CI
N

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

PUCK278
104
.00000788

RADMAT_ID
RADMAT_DESCR
RADMAT_LIMIT
RADMAT_RAD_TOT
RADMAT_UNITS
RADMAT_ALARM

R
TRU RWM GLOVEBOX
177
123.456789
FGE
N

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

PUCK278
11
18

RADMAT_ID
RADMAT_DESCR
RADMAT_LIMIT
RADMAT_RAD_TOT
RADMAT_UNITS
RADMAT_ALARM

T
TRU GLOVEBOX
177
123.456789
FGE
N

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

PUCK278
19
.00000254

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

PUCK278
202
.0013

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 08:34:21
Y
PCSDMS
70534
CL
PCSDMS"CL"871658704"TRU_S
ORT""1"202A-TEST-CASE"

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

PUCK278
203
.19

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

PUCK278
206
25

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 09:43:25
Y
PCSDMS
70720
CL
PCSDMS"CL"871662848"LLW_S
TORE1""1"OTPO10"

RAD_PKG_ID
RAD_ISO_NUM
RAD_QTY

PUCK278
86
.00000254

CONLOC_PKG_ID
CONLOC_DT
CONLOC_LOCN_ID

OTP-LLW-00-01 ✓
08-20-27 01:07:46
LLW_EXIT

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 09:44:10
N
PCSDMS
70724
CL
PCSDMS"CL"871662893"LLW_C
MPCT""1"OTP-LLW-WP-04"

CONLOC_PKG_ID
CONLOC_DT
CONLOC_LOCN_ID

OTP-LLW-00-02 ✓
08-19-27 22:30:25
LLW_EXIT

CONLOC_PKG_ID
CONLOC_DT
CONLOC_LOCN_ID

OTP-LLW-00-03 ✓
08-15-27 15:38:27
LLW_ENTRY

CONLOC_PKG_ID
CONLOC_DT
CONLOC_LOCN_ID

OTP-LLW-00-04 ✓
08-15-27 16:06:40
LLW_ENTRY

CONLOC_PKG_ID
CONLOC_DT
CONLOC_LOCN_ID

OTP-LLW-00-05 ✓
08-19-27 20:58:52
LLW_ENTRY

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 09:53:52
N
PCSDMS
70751
CL
PCSDMS"CL"871663474"LLW_C
MPCT""1"OTP-LLW-WP-04"

CONLOC_PKG_ID
CONLOC_DT
CONLOC_LOCN_ID

OTP-LLW-WP-01 ✓
08-14-27 01:42:44
LLW_SORT

CONLOC_PKG_ID
CONLOC_DT
CONLOC_LOCN_ID

OTP-LLWR-TD-01 ✓
08-13-27 16:29:26
LLW_RWMPT

CONLOC_PKG_ID
CONLOC_DT
CONLOC_LOCN_ID

OTP-LLWR-TD-02 ✓
08-15-27 15:38:57
LLW_RWMPT

CONLOC_PKG_ID
CONLOC_DT
CONLOC_LOCN_ID

OTP6-97-400001 ✓
08-13-27 21:57:45
LLW_PP

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 10:58:33
N
PCSDMS
70924
CL
PCSDMS"CL"871667355"LLW_P
UCK""1"OTPO99"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 11:22:14
Y
PCSDMS
70989
CL
PCSDMS"CL"871668776"LLW_P
UCK""1"OTPO02"

*TRU
ATP*

*use 1 Not
Completed*

MSGLOG_DT 08-15-97 11:46:51
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71057
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871670253"LLW_P
 UCK""1"OTPO01"

MSGLOG_DT 08-15-97 12:29:53
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE DMSPCS
 MSGLOG_SEQ_NUM 71171
 MSGLOG_SPEC_TYPE FCL
 MSGLOG_STRING1 DMSPCS"FCL"5.678000E-05"F

MSGLOG_DT 08-15-97 12:39:35
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE DMSPCS
 MSGLOG_SEQ_NUM 71198
 MSGLOG_SPEC_TYPE FCL
 MSGLOG_STRING1 DMSPCS"FCL"1.234500E-03"F

MSGLOG_DT 08-15-97 12:40:28
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE DMSPCS
 MSGLOG_SEQ_NUM 71201
 MSGLOG_SPEC_TYPE FCL
 MSGLOG_STRING1 DMSPCS"FCL"1.234568E+03"F

MSGLOG_DT 08-15-97 12:49:18
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE DMSPCS
 MSGLOG_SEQ_NUM 71226
 MSGLOG_SPEC_TYPE FCL
 MSGLOG_STRING1 DMSPCS"FCL"1.234568E+02"F

MSGLOG_DT 08-15-97 12:50:54
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE DMSPCS
 MSGLOG_SEQ_NUM 71231
 MSGLOG_SPEC_TYPE FML
 MSGLOG_STRING1 DMSPCS"FML"AREA_3"1.23456
 8E+02"F

MSGLOG_DT 08-15-97 12:51:09
 MSGLOG_ERROR_FLAG N
 MSGLOG_GEN_TYPE DMSPCS
 MSGLOG_SEQ_NUM 71232
 MSGLOG_SPEC_TYPE FML
 MSGLOG_STRING1 DMSPCS"FML"TRU_GLVEBX"1.2
 34568E+02"F

MSGLOG_DT 08-15-97 12:51:16
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71233
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871674118"LLW_P
 UCK""1"OTPO01"

MSGLOG_DT 08-15-97 12:51:55
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71237
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871674156"LLW_P
 UCK""1"OTPO01"

MSGLOG_DT 08-15-97 12:52:13
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71239
 MSGLOG_SPEC_TYPE CL

MSGLOG_STRING1 PCSDMS"CL"871674175"LLW_P
 UCK""1"OTPO01"

MSGLOG_DT 08-15-97 12:54:08
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71247
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871674289"LLW_P
 UCK""1"OTPO01"

MSGLOG_DT 08-15-97 13:01:54
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71269
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871674756"LLW_S
 TORE1""1"OTPO01"

MSGLOG_DT 08-15-97 13:04:44
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71277
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871674926"LLW_S
 TORE1""1"OTPO01"

MSGLOG_DT 08-15-97 13:09:55
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71293
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871675237"LLW_S
 TORE1""1"OTPO01"

MSGLOG_DT 08-15-97 13:09:57
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71295
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871675239"LLW_S
 TORE1""1"OTPO01"

MSGLOG_DT 08-15-97 13:10:02
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71297
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871675244"LLW_S
 TORE1""1"OTPO01"

MSGLOG_DT 08-15-97 13:10:14
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71301
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871675255"LLW_S
 TORE1""1"OTPO01"

MSGLOG_DT 08-15-97 13:10:32
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71303
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871675274"LLW_S
 TORE1""1"OTPO01"

MSGLOG_DT 08-15-97 13:11:36
 MSGLOG_ERROR_FLAG Y
 MSGLOG_GEN_TYPE PCSDMS
 MSGLOG_SEQ_NUM 71309
 MSGLOG_SPEC_TYPE CL
 MSGLOG_STRING1 PCSDMS"CL"871675336"LLW_S
 TORE1""1"OTPO01"

MSGLOG_DT 08-15-97 13:12:30
 MSGLOG_ERROR_FLAG Y

MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

PCSDMS
71313
CL
PCSDMS"CL"871675392"LLW_S
TORE1""1"OTP001"

08-15-97 13:26:58
Y
PCSDMS
71353
CL
PCSDMS"CL"871676260"LLW_P
UCK""1"OTP002"

08-15-97 13:27:00
Y
PCSDMS
71355
CL
PCSDMS"CL"871676261"LLW_P
UCK""1"OTP002"

08-15-97 13:28:04
Y
PCSDMS
71358
CL
PCSDMS"CL"871676326"LLW_P
UCK""1"OTP002"

08-15-97 13:32:31
Y
PCSDMS
71372
CL
PCSDMS"CL"871676593"LLW_P
UCK""1"OTP002"

08-15-97 13:35:44
Y
PCSDMS
71384
CL
PCSDMS"CL"871676786"LLW_P
UCK""1"OTP002"

08-15-97 13:35:46
Y
PCSDMS
71386
CL
PCSDMS"CL"871676787"LLW_P
UCK""1"OTP002"

08-15-97 13:35:47
Y
PCSDMS
71387
CL
PCSDMS"CL"871676788"LLW_P
UCK""1"OTP002"

08-15-97 13:37:32
Y
PCSDMS
71392
CL
PCSDMS"CL"871676894"LLW_P
UCK""1"OTP002"

08-15-97 13:37:36
Y
PCSDMS
71394
CL
PCSDMS"CL"871676897"LLW_P
UCK""1"OTP002"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE

08-15-97 14:26:51
N
PCSDMS
71527
CL
PCSDMS"CL"871679853"LLW_P
UCK""1"OTP099"

08-15-97 14:34:55
N
PCSDMS
71550
CL
PCSDMS"CL"871680337"LLW_P
UCK""1"OTP099"

08-15-97 14:35:14
Y
PCSDMS
71551
CL
PCSDMS"CL"871680356"TRU_C
OMPCT""1"96000001

08-15-97 14:35:16
Y
PCSDMS
71553
CL
PCSDMS"CL"871680356"TRU_C
OMPCT""1"96000001

08-15-97 14:35:18
Y
PCSDMS
71555
CL
PCSDMS"CL"871680357"TRU_C
OMPCT""1"96000001

08-15-97 14:35:20
Y
PCSDMS
71557
CL
PCSDMS"CL"871680357"TRU_C
OMPCT""1"96000001

08-15-97 14:37:20
Y
PCSDMS
71565
CL
PCSDMS"CL"871680481"TRU_C
OMPCT""1"96000001

08-15-97 14:37:22
Y
PCSDMS
71567
CL
PCSDMS"CL"871680482"TRU_C
OMPCT""1"96000001

08-15-97 14:37:24
Y
PCSDMS
71569
CL
PCSDMS"CL"871680482"TRU_C
OMPCT""1"96000001

08-15-97 14:37:55
Y
PCSDMS
71573
CL

MSGLOG_STRING1	PCSDMS"CL"871680517"TRU_C OMPCT""1"96000001	MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	N PCSDMS 71777 CL PCSDMS"CL"871684772"LLW_P UK""1"OTP099"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 14:37:57 Y PCSDMS 71575 CL PCSDMS"CL"871680517"TRU_C OMPCT""1"96000001	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 15:48:53 N PCSDMS 71778 CL PCSDMS"CL"871684774"LLW_P UCK""1"OTP099"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 14:37:59 Y PCSDMS 71577 CL PCSDMS"CL"871680518"TRU_C OMPCT""1"96000001	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 15:49:04 N PCSDMS 71779 CL PCSDMS"CL"871684785"LLW_P UCK""1"OTP099"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 14:38:01 Y PCSDMS 71579 CL PCSDMS"CL"871680518"TRU_C OMPCT""1"96000001	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 15:56:02 Y PCSDMS 71800 CL PCSDMS"CL"871685204"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 14:38:03 Y PCSDMS 71581 CL PCSDMS"CL"871680518"TRU_C OMPCT""1"96000001	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 17:20:39 Y PCSDMS 72026 CL PCSDMS"CL"871690281"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 15:19:03 Y PCSDMS 71691 CL PCSDMS"CL"871682985"LLW_E XIT""1"TEST DRUM "		
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 15:21:11 N PCSDMS 71699 PAMR PCSDMS"PAMR"871683112"LLW _ENTRY"12345678901234"1.2	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 17:31:50 N PCSDMS 72058 CL PCSDMS"CL"871690952"LLW_P UCK""1"OTP099"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 15:36:16 N PCSDMS 71740 CL PCSDMS"CL"871684017"LLW_P UCK""1"OTP099"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 17:31:52 N PCSDMS 72059 CL PCSDMS"CL"871690953"LLW_P UCK""1"OTP099"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 15:48:44 N PCSDMS 71775 CL PCSDMS"CL"871684765"LLW_P UCK""1"OTP099"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 17:31:55 N PCSDMS 72060 CL PCSDMS"CL"871690957"LLW_P UCK""1"OTP099"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 15:48:48 N PCSDMS 71776 CL PCSDMS"CL"871684769"LLW_P UCK""1"OTP099"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 17:31:58 N PCSDMS 72061 CL PCSDMS"CL"871690959"LLW_P UCK""1"OTP099"
MSGLOG_DT	08-15-97 15:48:50	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE	08-15-97 17:32:01 N PCSDMS 72064 CL

MSGLOG_STRING1	PCSDMS"CL"871690961"LLW_P CK""1"OTP099"	MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	PCSDMS 72580 CL PCSDMS"CL"871702278"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 17:33:03 Y PCSDMS 72067 CL PCSDMS"CL"871691025"LLW_P UCK""1"OTP011"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 20:41:25 Y PCSDMS 72584 CL PCSDMS"CL"871702326"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 17:33:13 N PCSDMS 72069 CL PCSDMS"CL"871691035"LLW_P UCK""1"OTP099"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 20:43:32 Y PCSDMS 72592 CL PCSDMS"CL"871702453"LLW_E XIT""1"TEST DRUM "
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 17:59:38 Y PCSDMS 72140 POPD PCSDMS"POPD"871692620"LLW _EXIT"OTP099"TEST DRUM	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 20:51:22 N PCSDMS 72614 POPD PCSDMS"POPD"871702923"LLW _EXIT"OTP001"TEST DRUM
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 17:59:40 Y PCSDMS 72142 CLW PCSDMS"CLW"871692620"LLW PUCK"1f82"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 20:51:23 Y PCSDMS 72615 CLW PCSDMS"CLW"871702923"LLW PUCK"1f65"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 19:08:23 N PCSDMS 72327 CL PCSDMS"CL"871696744"LLW_P UCK""1"OTP099"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-16-97 10:48:32 N PCSDMS 73655 CL PCSDMS"CL"871753152"LLW_C MPCT""1"OTP-LLW-WP-04"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 19:16:41 N PCSDMS 72350 CL PCSDMS"CL"871697242"LLW_P UCK""1"OTP099"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-16-97 11:06:43 Y PCSDMS 73704 CL PCSDMS"CL"871754243"LLW_P UCK""1"OTP004"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 20:15:22 Y PCSDMS 72507 CL PCSDMS"CL"871700764"LLW_E XIT""1"TEST DRUM "	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-16-97 11:19:07 N PCSDMS 73740 CL PCSDMS"CL"871754987"LLW_C MPCT""1"OTP-LLW-WP-04"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 20:33:47 N PCSDMS 72559 POPD PCSDMS"POPD"871701868"LLW _EXIT"OTP002"TEST DRUM	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-16-97 11:24:49 N PCSDMS 73753 CL PCSDMS"CL"871755329"LLW_C MPCT""1"OTP-LLW-WP-04"
MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-15-97 20:33:48 Y PCSDMS 72560 CLW PCSDMS"CLW"871701868"LLW PUCK"1f224"	MSGLOG_DT MSGLOG_ERROR_FLAG MSGLOG_GEN_TYPE MSGLOG_SEQ_NUM MSGLOG_SPEC_TYPE MSGLOG_STRING1	08-16-97 11:35:35 N PCSDMS 73786 CL PCSDMS"CL"871755975"LLW_C MPCT""1"OTP-LLW-WP-04"
MSGLOG_DT MSGLOG_ERROR_FLAG	08-15-97 20:40:37 Y		

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 11:38:15
N
PCSDMS
73793
CL
PCSDMS"CL"871756135"LLW_C
MPCT""1"OTP-LLW-WP-04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 12:23:37
N
PCSDMS
73916
CL
PCSDMS"CL"871758857"LLW_C
MPCT""1"OTP-LLW-WP-04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 12:24:29
N
PCSDMS
73919
CL
PCSDMS"CL"871758908"LLW_C
MPCT""1"OTP-LLW-WP-04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 12:37:27
N
PCSDMS
73954
CL
PCSDMS"CL"871759687"LLW_C
MPCT""1"OTP-LLW-WP-04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 12:42:45
N
PCSDMS
73969
CL
PCSDMS"CL"871760005"LLW_C
MPCT""1"OTP-LLW-WP-04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 13:32:46
N
PCSDMS
74104
CL
PCSDMS"CL"871763006"LLW_C
MPCT""1"OTP-LLW-WP-04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 13:35:57
N
PCSDMS
74113
CL
PCSDMS"CL"871763197"LLW_C
MPCT""1"OTP-LLW-WP-04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 13:37:46
N
PCSDMS
74120
CL
PCSDMS"CL"871763305"LLW_C
MPCT""1"OTP-LLW-WP-04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 14:13:58
Y
PCSDMS
74217
CL
PCSDMS"CL"871765478"LLW_P
UCK""1"OTPO03"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE

08-16-97 14:43:14
N
PCSDMS
74297
CL

MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

PCSDMS"CL"871767233"LLW_C
MPCT""1"OTP-LLW-WP-04"

08-16-97 14:49:50

N
PCSDMS
74316
CL
PCSDMS"CL"871767630"LLW_C
MPCT""1"OTP-LLW-WP-04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 15:28:18
N
PCSDMS
74419
CL
PCSDMS"CL"871769938"LLW_C
MPCT""1"OTP-LLW-WP-04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 15:50:16
N
PCSDMS
74476
CL
PCSDMS"CL"871771255"LLW_E
XIT""1"OTP-LLW-OD-02"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-17-97 10:43:42
Y
PCSDMS
77499
CL
PCSDMS"CL"871839260"TRU_S
ORT""1"202A-TEST-CASE"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-17-97 11:13:07
Y
PCSDMS
77579
CL
PCSDMS"CL"871841025"TRU_S
ORT""1"202A-TEST-CASE"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 08:55:15
N
PCSDMS
81045
CL
PCSDMS"CL"3080883314"LLW
CMPCT""1"OTP-LLW-WP-02"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 09:30:44
N
PCSDMS
81062
CL
PCSDMS"CL"871921280"DISCH
CVR""1"RHZ-101-A13568"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 09:34:11
Y
PCSDMS
81073
CL
PCSDMS"CL"871921487"LLW_S
TORE1""1"OTPO03"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 09:48:24
N
PCSDMS
81113
CL
PCSDMS"CL"871922340"LLW_P
UCK""1"OTPO02"

MSGLOG_DT
MSGLOG_ERROR_FLAG

08-18-97 09:48:29
N

MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
PCSDMS
81114
CL
PCSDMS"CL"871922342"LLW_P
UCK""1"OTP002"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-18-97 10:07:08
N
PCSDMS
81165
CL
PCSDMS"CL"871923464"LLW_P
UCK""1"OTP002"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-18-97 10:12:15
N
PCSDMS
81180
POPD
PCSDMS"POPD"871923771"LLW
_EXIT"OTP004"OTP-LLW-OD-0

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-18-97 10:12:17
N
PCSDMS
81181
CLW
PCSDMS"CLW"871923771"LLW
PUCK"1"OTP004"32"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-18-97 11:29:25
N
PCSDMS
81388
CL
PCSDMS"CL"871928401"LLW_S
TORE2""1"OTP002"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-18-97 11:34:59
N
PCSDMS
81395
CL
PCSDMS"CL"3080892898"LLW
CMPCT""1"OTP-LLW-WP-03"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-18-97 11:39:49
N
PCSDMS
81406
CL
PCSDMS"CL"871929025"LLW_P
UCK""1"OTP003"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-18-97 11:45:54
N
PCSDMS
81425
CL
PCSDMS"CL"871929390"LLW_S
TORE1""1"OTP003"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1
08-18-97 11:46:29
N
PCSDMS
81426
CL
PCSDMS"CL"871929425"LLW_S
TORE1""1"OTP003"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
PCSDMS
81431
CL

MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

MSGLOG_DT

PCSDMS"CL"871929476"LLW_S
ORE1""1"OTP003"

08-18-97 11:48:49
N
PCSDMS
81434
CL
PCSDMS"CL"871929565"LLW_S
TORE1""1"OTP003"

08-18-97 11:54:20
Y
PCSDMS
81451
CL
PCSDMS"CL"871929896"TRU_S
ORT""1"202A-TEST-CASE"

08-18-97 11:55:41
N
PCSDMS
81457
CL
PCSDMS"CL"871929977"LLW_S
TORE1""1"OTP003"

08-18-97 12:08:34
N
PCSDMS
81492
POPD
PCSDMS"POPD"871930750"LLW
_EXIT"OTP003"OTP-LLW-OD-0

08-18-97 12:08:35
N
PCSDMS
81493
CLW
PCSDMS"CLW"871930750"LLW
PUCK"1"OTP003"1"

08-18-97 13:20:25
Y
PCSDMS
81686
CL
PCSDMS"CL"871935061"TRU_S
ORT""1"202A-TEST-CASE"

08-18-97 13:37:32
N
PCSDMS
81732
CL
PCSDMS"CL"871936088"LLW_P
UCK""1"OTP002"

08-18-97 14:08:16
N
PCSDMS
81815
CL
PCSDMS"CL"871937932"LLW_E
NTRY""1"OTP-LLW-OD-05"

08-18-97 15:32:20
N
PCSDMS
82040
POPD
PCSDMS"POPD"871942976"LLW
_EXIT"OTP-LLW-OD-0

08-18-97 15:32:21

MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

(Y)
PCSDMS
82041
CLW
PCSDMS"CLW"871942976"LLW_
PUCK"1"OTP001"31"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 15:39:49
N
PCSDMS
82063
CL
PCSDMS"CL"871943425"LLW_E
XIT"1"OTP-LLW-OD-02"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 15:41:05
N
PCSDMS
82068
POPD
PCSDMS"POPD"871943500"LLW_
_EXIT"1"OTP-LLW-OD-0

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 15:41:06
(Y)
PCSDMS
82069
CLW
PCSDMS"CLW"871943500"LLW_
PUCK"1"OTP001"31"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 15:42:58
N
PCSDMS
82077
POPD
PCSDMS"POPD"871943614"LLW_
_EXIT"OTP003"OTP-LLW-OD-0

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 15:42:59
N
PCSDMS
82078
CLW
PCSDMS"CLW"871943614"LLW_
PUCK"1"OTP003"31"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 15:44:37
N
PCSDMS
82083
POPD
PCSDMS"POPD"871943712"LLW_
_EXIT"OTP002"OTP-LLW-OD-0

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 15:44:38
N
PCSDMS
82084
CLW
PCSDMS"CLW"871943712"LLW_
PUCK"1"OTP002"31"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 16:30:59
N
PCSDMS
82209
CL
PCSDMS"CL"871946495"LLW_E
XIT"1"OTP-LLW-OD-01"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE

08-18-97 16:54:00
Y
PCSDMS

MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

82270
CL
PCSDMS"CL"871947876"LLW_P
UCK"1"OTP001"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 17:09:18
N
PCSDMS
82314
POPD
PCSDMS"POPD"871948794"LLW_
_EXIT"OTP001"OTP-LLW-OD-0

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 17:09:19
(Y)
PCSDMS
82315
CLW
PCSDMS"CLW"871948794"LLW_
PUCK"1"OTP001"24"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 17:22:04
N
PCSDMS
82351
CL
PCSDMS"CL"871949559"LLW_E
XIT"1"OTP-LLW-OD-01"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 17:27:25
N
PCSDMS
82366
CL
PCSDMS"CL"871949881"LLW_E
XIT"1"OTP-LLW-OD-01"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 17:45:13
Y
PCSDMS
82415
CL
PCSDMS"CL"871950949"LLW_P
UCK"1"OTP001"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 17:45:15
Y
PCSDMS
82417
CL
PCSDMS"CL"871950949"LLW_P
UCK"1"OTP001"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 18:09:01
N
PCSDMS
82480
POPD
PCSDMS"POPD"871952376"LLW_
_EXIT"OTP001"OTP-LLW-OD-0

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 18:09:02
(Y)
PCSDMS
82481
CLW
PCSDMS"CLW"871952376"LLW_
PUCK"1"OTP001"24"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE

08-18-97 18:17:11
N
PCSDMS
82505
CL

MSGLOG_STRING1	PCSDMS"CL"871952866"LLW_E IT""1"OTP-LLW-0D-01"	MSGLOG_GEN_TYPE	PCSDMS
		MSGLOG_SEQ_NUM	71277
MSGLOG_DT	08-15-97 08:34:21	MSGLOG_SPEC_TYPE	CL
MSGLOG_ERROR_FLAG	Y	MSGLOG_STRING1	PCSDMS"CL"871674926"LLW_S TORE1""1"OTPO01"
MSGLOG_GEN_TYPE	PCSDMS		
MSGLOG_SEQ_NUM	70534	MSGLOG_DT	08-15-97 13:09:55
MSGLOG_SPEC_TYPE	CL	MSGLOG_ERROR_FLAG	Y
MSGLOG_STRING1	PCSDMS"CL"871658704"TRU_S ORT""1"202A-TEST-CASE"	MSGLOG_GEN_TYPE	PCSDMS
		MSGLOG_SEQ_NUM	71293
		MSGLOG_SPEC_TYPE	CL
MSGLOG_DT	08-15-97 09:43:25	MSGLOG_STRING1	PCSDMS"CL"871675237"LLW_S TORE1""1"OTPO01"
MSGLOG_ERROR_FLAG	Y		
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_DT	08-15-97 13:09:57
MSGLOG_SEQ_NUM	70720	MSGLOG_ERROR_FLAG	Y
MSGLOG_SPEC_TYPE	CL	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_STRING1	PCSDMS"CL"871662848"LLW_S TORE1""1"OTPO10"	MSGLOG_SEQ_NUM	71295
		MSGLOG_SPEC_TYPE	CL
MSGLOG_DT	08-15-97 11:22:14	MSGLOG_STRING1	PCSDMS"CL"871675239"LLW_S TORE1""1"OTPO01"
MSGLOG_ERROR_FLAG	Y		
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_DT	08-15-97 13:10:02
MSGLOG_SEQ_NUM	70989	MSGLOG_ERROR_FLAG	Y
MSGLOG_SPEC_TYPE	CL	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_STRING1	PCSDMS"CL"871668776"LLW_P UCK""1"OTPO02"	MSGLOG_SEQ_NUM	71297
		MSGLOG_SPEC_TYPE	CL
MSGLOG_DT	08-15-97 11:46:51	MSGLOG_STRING1	PCSDMS"CL"871675244"LLW_S TORE1""1"OTPO01"
MSGLOG_ERROR_FLAG	Y		
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_DT	08-15-97 13:10:14
MSGLOG_SEQ_NUM	71057	MSGLOG_ERROR_FLAG	Y
MSGLOG_SPEC_TYPE	CL	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_STRING1	PCSDMS"CL"871670253"LLW_P UCK""1"OTPO01"	MSGLOG_SEQ_NUM	71301
		MSGLOG_SPEC_TYPE	CL
MSGLOG_DT	08-15-97 12:51:16	MSGLOG_STRING1	PCSDMS"CL"871675255"LLW_S TORE1""1"OTPO01"
MSGLOG_ERROR_FLAG	Y		
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_DT	08-15-97 13:10:32
MSGLOG_SEQ_NUM	71233	MSGLOG_ERROR_FLAG	Y
MSGLOG_SPEC_TYPE	CL	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_STRING1	PCSDMS"CL"871674118"LLW_P UCK""1"OTPO01"	MSGLOG_SEQ_NUM	71303
		MSGLOG_SPEC_TYPE	CL
MSGLOG_DT	08-15-97 12:51:55	MSGLOG_STRING1	PCSDMS"CL"871675274"LLW_S TORE1""1"OTPO01"
MSGLOG_ERROR_FLAG	Y		
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_DT	08-15-97 13:11:36
MSGLOG_SEQ_NUM	71237	MSGLOG_ERROR_FLAG	Y
MSGLOG_SPEC_TYPE	CL	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_STRING1	PCSDMS"CL"871674156"LLW_P UCK""1"OTPO01"	MSGLOG_SEQ_NUM	71309
		MSGLOG_SPEC_TYPE	CL
MSGLOG_DT	08-15-97 12:52:13	MSGLOG_STRING1	PCSDMS"CL"871675336"LLW_S TORE1""1"OTPO01"
MSGLOG_ERROR_FLAG	Y		
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_DT	08-15-97 13:12:30
MSGLOG_SEQ_NUM	71239	MSGLOG_ERROR_FLAG	Y
MSGLOG_SPEC_TYPE	CL	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_STRING1	PCSDMS"CL"871674175"LLW_P UCK""1"OTPO01"	MSGLOG_SEQ_NUM	71313
		MSGLOG_SPEC_TYPE	CL
MSGLOG_DT	08-15-97 12:54:08	MSGLOG_STRING1	PCSDMS"CL"871675392"LLW_S TORE1""1"OTPO01"
MSGLOG_ERROR_FLAG	Y		
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_DT	08-15-97 13:26:58
MSGLOG_SEQ_NUM	71247	MSGLOG_ERROR_FLAG	Y
MSGLOG_SPEC_TYPE	CL	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_STRING1	PCSDMS"CL"871674289"LLW_P UCK""1"OTPO01"	MSGLOG_SEQ_NUM	71353
		MSGLOG_SPEC_TYPE	CL
MSGLOG_DT	08-15-97 13:01:54	MSGLOG_STRING1	PCSDMS"CL"871676260"LLW_P UCK""1"OTPO02"
MSGLOG_ERROR_FLAG	Y		
MSGLOG_GEN_TYPE	PCSDMS	MSGLOG_DT	08-15-97 13:27:00
MSGLOG_SEQ_NUM	71269	MSGLOG_ERROR_FLAG	Y
MSGLOG_SPEC_TYPE	CL	MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_STRING1	PCSDMS"CL"871674756"LLW_S TORE1""1"OTPO01"	MSGLOG_SEQ_NUM	71355
		MSGLOG_SPEC_TYPE	CL
MSGLOG_DT	08-15-97 13:04:44	MSGLOG_STRING1	PCSDMS"CL"871676261"LLW_P UCK""1"OTPO02"
MSGLOG_ERROR_FLAG	Y		

MSGLOG_DT 08-15-97 13:28:04
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71358
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871676326"LLW_P
UCK""1"

MSGLOG_DT 08-15-97 13:32:31
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71372
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871676593"LLW_P
UCK""1"

MSGLOG_DT 08-15-97 13:35:44
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71384
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871676786"LLW_P
UCK""1"OTPO02"

MSGLOG_DT 08-15-97 13:35:46
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71386
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871676787"LLW_P
UCK""1"OTPO02"

MSGLOG_DT 08-15-97 13:35:47
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71387
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871676788"LLW_P
UCK""1"OTPO02"

MSGLOG_DT 08-15-97 13:37:32
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71392
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871676894"LLW_P
UCK""1"OTPO02"

MSGLOG_DT 08-15-97 13:37:36
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71394
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871676897"LLW_P
UCK""1"OTPO02"

MSGLOG_DT 08-15-97 14:35:14
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71551
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871680356"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 14:35:16
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71553
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871680356"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 14:35:18
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71555
MSGLOG_SPEC_TYPE CL

MSGLOG_STRING1 PCSDMS"CL"871680357"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 14:35:20
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71557
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871680357"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 14:37:20
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71565
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871680481"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 14:37:22
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71567
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871680482"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 14:37:24
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71569
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871680482"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 14:37:55
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71573
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871680517"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 14:37:57
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71575
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871680517"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 14:37:59
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71577
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871680518"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 14:38:01
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71579
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871680518"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 14:38:03
MSGLOG_ERROR_FLAG Y
MSGLOG_GEN_TYPE PCSDMS
MSGLOG_SEQ_NUM 71581
MSGLOG_SPEC_TYPE CL
MSGLOG_STRING1 PCSDMS"CL"871680518"TRU_C
OMPCT""1"96000001

MSGLOG_DT 08-15-97 15:19:03
MSGLOG_ERROR_FLAG Y

MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

PCSDMS
71691
CL
PCSDMS"CL"871682985"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 15:56:02
Y
PCSDMS
71800
CL
PCSDMS"CL"871685204"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 17:20:39
Y
PCSDMS
72026
CL
PCSDMS"CL"871690281"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 17:33:03
Y
PCSDMS
72067
CL
PCSDMS"CL"871691025"LLW_P
UCK""1"OTPO11"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 17:59:38
Y
PCSDMS
72140
POPD
PCSDMS"POPD"871692620"LLW
_EXIT"OTPO99"TEST DRUM

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 17:59:40
Y
PCSDMS
72142
CLW
PCSDMS"CLW"871692620"LLW_P
UCK"1""82"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 20:15:22
Y
PCSDMS
72507
CL
PCSDMS"CL"871700764"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 20:33:48
Y
PCSDMS
72560
CLW
PCSDMS"CLW"871701868"LLW_P
UCK"1""224"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 20:40:37
Y
PCSDMS
72580
CL
PCSDMS"CL"871702278"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 20:41:25
Y
PCSDMS
72584
CL
PCSDMS"CL"871702326"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 20:43:32
Y
PCSDMS
72592
CL
PCSDMS"CL"871702453"LLW_E
XIT""1"TEST DRUM "

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-15-97 20:51:23
Y
PCSDMS
72615
CLW
PCSDMS"CLW"871702923"LLW_P
UCK"1""65"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 11:06:43
Y
PCSDMS
73704
CL
PCSDMS"CL"871754243"LLW_P
UCK""1"OTPO04"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-16-97 14:13:58
Y
PCSDMS
74217
CL
PCSDMS"CL"871765478"LLW_P
UCK""1"OTPO03"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-17-97 10:43:42
Y
PCSDMS
77499
CL
PCSDMS"CL"871839260"TRU_S
ORT""1"202A-TEST-CASE"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-17-97 11:13:07
Y
PCSDMS
77579
CL
PCSDMS"CL"871841025"TRU_S
ORT""1"202A-TEST-CASE"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 09:34:11
Y
PCSDMS
81073
CL
PCSDMS"CL"871921487"LLW_S
TORE1""1"OTPO03"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 11:54:20
Y
PCSDMS
81451
CL
PCSDMS"CL"871929896"TRU_S
ORT""1"202A-TEST-CASE"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE
MSGLOG_STRING1

08-18-97 13:20:25
Y
PCSDMS
81686
CL
PCSDMS"CL"871935061"TRU_S
ORT""1"202A-TEST-CASE"

MSGLOG_DT
MSGLOG_ERROR_FLAG
MSGLOG_GEN_TYPE
MSGLOG_SEQ_NUM
MSGLOG_SPEC_TYPE

08-18-97 15:32:21
Y
PCSDMS
82041
CLW

MSGLOG_STRING1	PCSDMS~CLW~871942976~LLW_ PUCK~1~31~
MSGLOG_DT	08-18-97 15:41:06
MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	82069
MSGLOG_SPEC_TYPE	CLW
MSGLOG_STRING1	PCSDMS~CLW~871943500~LLW_ PUCK~1~hickr!~31~
MSGLOG_DT	08-18-97 16:54:00
MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	82270
MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS~CL~871947876~LLW_P UCK~1~OTP001~
MSGLOG_DT	08-18-97 17:09:19
MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	82315
MSGLOG_SPEC_TYPE	CLW
MSGLOG_STRING1	PCSDMS~CLW~871948794~LLW_ PUCK~1~OTP001~24~
MSGLOG_DT	08-18-97 17:45:13
MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	82415
MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS~CL~871950949~LLW_P UCK~1~OTP001~
MSGLOG_DT	08-18-97 17:45:15
MSGLOG_ERROR_FLAG	Y
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MSGLOG_SEQ_NUM	82417
MSGLOG_SPEC_TYPE	CL
MSGLOG_STRING1	PCSDMS~CL~871950949~LLW_P UCK~1~OTP001~
MSGLOG_DT	08-18-97 18:09:02
MSGLOG_ERROR_FLAG	Y
MSGLOG_GEN_TYPE	PCSDMS
MSGLOG_SEQ_NUM	82481
MSGLOG_SPEC_TYPE	CLW
MSGLOG_STRING1	PCSDMS~CLW~871952376~LLW_ PUCK~1~OTP001~24~

WRAP 1 PLANT OPERATING PROCEDURE

SYSTEM: PROCESS

GLOVEBOX HOUSEKEEPING

(HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

This procedure provides instructions for cleanup of spills, debris and general housekeeping in WRAP-1 gloveboxes.

Glovebox housekeeping shall be performed after processing of each waste stream batch, and as needed during glovebox operations for spills or other debris buildup. This will ensure adequate, current, process knowledge to help determine possible sampling requirements & environmental compliance when disposing of cleanup residue.

II. REFERENCE DOCUMENTS / DOCUMENTED BASIS

WRP1-OP-0704, Glovebox Manipulator Operation
WRP1-OP-0705, Bagless Transfer Manual Operation

III. PRESTART CONDITIONS

All personnel performing this procedure shall be qualified in accordance with Waste Management Hanford Procedures Manual, Section 5.1, "Training and Qualification," and on-the-job training.

Verify daily radiological dose rates and contamination level for gloves have been established by Radiological Control.

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WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

IV. SAFETY

All potential hazards, such as lifting heavy containers or handling sharp objects present in waste containers, must be mitigated by protective equipment, procedures, and administrative controls to ensure acceptable-risk operating conditions.

All work must be performed per applicable Radiation Work Permits (RWP's).

Clean up spills immediately. Use only facility approved chemical or cleaning agents. Use materials sparingly and in accordance with MSDS information to prevent unwanted chemical reactions or formulation of new chemical compositions.

V. TOOLS AND SUPPLIES

Approved cleaning agents and supplies as required.

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ATTACHMENTS

None

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

VII. PROCEDURE

CAUTION

INTRODUCTION OF UNAPPROVED CLEANING AGENTS INTO GLOVEBOXES MAY RESULT IN ENVIRONMENTAL NON-COMPLIANCE, UNWANTED CHEMICAL REACTIONS OR OTHER UNDESIRABLE EFFECTS. ONLY FACILITY APPROVED CLEANING AGENTS MAY BE USED.

Note - Administrative hold steps are identified by letters in parentheses at the left margin of the procedure step. Direction given in the procedure step must be satisfied before work continues.

(M) - Operations management shall approve operation.

(R) - Radiological Control (RC) shall complete surveys or agree to permit continued operation.

A. GENERAL REQUIREMENTS

1. Sections VII.C through VII.E of this procedure may be performed repeatedly and in any order necessary to facilitate work.

WARNING

WORK THROUGH GLOVEPORTS MAY INVOLVE PLACING HANDS IN CLOSE PROXIMITY TO MOVING EQUIPMENT. CARE MUST BE TAKEN TO PREVENT INJURY.

2. IF at any time during performance of this procedure, work is to be performed through gloveports,
THEN:
 - a. CHECK status and location of moving equipment in proximity of gloveport(s) to be used.
 - b. TAKE action, including any of the following, as deemed necessary to prevent injury:
 - AVOID equipment when reaching through port(s)
 - PRESS glovebox E-Stop to stop glovebox equipment
 - CONSULT DOS when unsure

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

c. PERFORM a contamination survey of hands, arms and front of body upon exiting glove:

- (1) IF contamination is detected,
THEN, CONTACT Radiological Control Technician.

B. GLOVEBOX INSPECTION

1. CHECK, visually throughout glovebox for:
 - Loose items, spills, droppings or tailings from waste handling process.
 - Improperly stored glovebox tools and equipment.
 - Leaks from glovebox hydraulic systems.
 - Left-over agents introduced for cleaning or other purposes.
 - Foreign matter on glovebox walls, windows and/or equipment.
2. CHECK glovebox equipment (manipulators, ports, lift tables, etc) for damage, leaks, etc.
3. PERFORM glovebox cleanup as required, per Sections VII.D through VII.F of this procedure.

C. CLEANUP SOLID DEBRIS AND MATERIALS

NOTE 1 - *Glovebox manipulators are operated per WRP1-OP-0704, Glovebox Manipulator Operation.*

1. USING manipulators to the extent possible, PERFORM the following:
 - a. PICKUP and BAG small waste and debris.
 - (1) USE (with manipulators) broom, dustpan, and shovel located inside glovebox, as needed to aid cleanup.
 - b. PLACE waste in desired area for removal or processing as directed by DOS.
 - c. MOVE glovebox tools and equipment to proper glovebox storage location.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

2. IF any items cannot be accessed with manipulators,
THEN:
 - a. LOCATE gloveport(s) which provide best access to item(s).
 - b. PROCESS items through gloveports per Steps VII.C.1.a through VII.C.1.c.
3. IF other cleanup work is to be performed,
THEN, GO TO applicable section(s),
OTHERWISE, GO TO Section VII.F, Sampling and Loadout.

D. CLEANUP LIQUID AND SPILLS

NOTE - Spill kits will normally be pre-packaged in marked sample transfer canisters and stored in the Warm Maintenance Area, Room 108.

1. TRANSFER required Spill Cleanup Kit into glovebox through bagless transfer port, sample transfer port or consumable materials entry port, as needed, per applicable operating procedure(s):

- WRP1-OP-0705, Bagless Transfer Manual Operation.
- WRP1-OP-0710, Waste Sampling.

2. WORKING with manipulators and/or through gloveport(s), as required, PERFORM the following:

NOTE - Cleanup is accomplished by best suited method. The following steps are used as a guideline.

- a. PLACE dam, dike, or absorbent containment from spill kit around spill.
- b. ABSORB, using approved pads and absorbent, as required, all spilled material.
- c. PLACE used pads and absorbent into plastic bag(s).
- d. PLACE waste in desired area for removal or processing as directed by DOS.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

3. IF necessary,
THEN, WIPEDOWN spill area per Section VII.E.
4. IF other cleanup work is to be performed,
THEN, GO TO applicable section(s),
OTHERWISE, GO TO Section VII.F, Sampling and Loadout.

E. WIPEDOWN GLOVEBOX

1. TRANSFER required materials (cleaning agents, rags, pads) into glovebox through bagless transfer port, sample transfer port or consumable materials entry port, as needed, per applicable operating procedure(s):
 - WRP1-OP-0705, Bagless Transfer Manual Operation.
 - WRP1-OP-0710, Waste Sampling.
2. WORKING with manipulators and/or through gloveport(s), as required, PERFORM the following:

NOTE - Cleanup is accomplished by best suited method (i.e. cleaning agents may be poured directly on area or applied to rags or pads, then wiped over area). The following steps are used as a guideline.

- a. APPLY cleaning agent to affected area(s).
 - b. SCRUB/BRUSH affected area(s).
 - c. WIPE, affected area(s) and equipment with clean, dry, absorbent pads or rags.
 - d. PLACE used pads, rags and other items to be disposed, into plastic bag(s).
 - e. PLACE waste in desired area for removal or processing as directed by DOS.
3. IF other cleanup work is to be performed,
THEN, GO TO applicable section(s),
OTHERWISE, GO TO Section VII.F, Sampling and Loadout.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

F. SAMPLING AND LOADOUT

NOTE 1 - Once cleaned up, items are treated as if processing ordinary waste for applicable glovebox.

NOTE 2 - Sampling requirements are determined by review of process history for waste stream preceding cleanup activities.

(M)

1. **DETERMINE** sorting, sampling and processing requirements for waste gathered or generated during cleanup activities.
2. **PERFORM** sorting, sampling and processing of waste gathered or generated during cleanup activities per applicable procedures, as directed.

WRAP 1 PLANT OPERATING PROCEDURE

SYSTEM: PROCESS

RESTART LLW GLOVEBOX OPERATION

(HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

This procedure provides instructions for restart of Low Level Waste (LLW) Gloveboxes after Emergency Stop, Fire Alarm, Power Outage, Equipment Failure, Low Glovebox Pressure or other abnormal shutdown.

Emergency Stop or other abnormal shutdown of the gloveboxes may leave various glovebox equipment including entry/exit ports, transfer cart, sorting table, hoists, lift tables etc. in an abnormal state (i.e., partially open/closed, tilted, seals deflated or inflated at the wrong time, etc.). Prior to restart, the condition of all glovebox equipment must be analyzed, and as required, returned to normal initialization status. Because of numerous interlocks and other safety features return of most equipment to the proper position must be accomplished manually through use of the Maintenance Mode menus on the glovebox Operator Interface Units (OIUs), Lift Table Controllers and other operator control stations.

When an OIU is in maintenance mode, most interlocks and safety features are bypassed. This allows equipment to be manipulated to a desired state to satisfy operational needs. It is also possible to damage equipment, and/or bypass safety restrictions such as glovebox containment. Caution must be exercised to prevent unwanted violation of operational safety requirements or personnel injury.

II. REFERENCE DOCUMENTS

WRP1-OP-0719, LLW Glovebox Line Manual Operation
 WRP1-OP-0713, LLW Entry Glovebox Operation.
 WRP1-OP-0714, LLW Sorting Glovebox Operation.
 WRP1-OP-0716, LLW Exit Glovebox Operation.

III. PRESTART CONDITIONS

All personnel performing this procedure shall be qualified in accordance with WHC-CM-5-34, Section 1.8, "Training Plan," and on-the-job training.

Process area Heating, Ventilation, Air Conditioning (HVAC) in OPERATION.
 Applicable light curtains in OPERATION.
 Applicable portions of plant electrical system in OPERATION.
 Compressed air system in OPERATION.

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WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

IV. SAFETY

Potential hazards, such as lifting heavy containers or handling sharp objects present in waste containers, must be mitigated by protective equipment, procedures, and administrative controls to ensure acceptable-risk operating conditions.

Consult with Operations Management and Industrial Hygiene, and refer to the Job Hazards Analysis (JHA), Radiological Work Permit (RWP) and Material Safety Data Sheets (MSDS) to determine required Personal Protective Equipment (PPE).

This procedure requires accessing gloveboxes through gloveports on a regular basis. Operators shall perform self survey upon exiting gloveport after each use. Radiological Control Technician (RCT) shall be contacted anytime self survey limits are exceeded.

Warning - Use care to prevent injury. Possible safety hazards include:

- Tripping/Slipping
- Injuries to the hands at glovebox ports
- Radiological Contamination
- Interference with the Automatic Guided Vehicle (AGV)

V. TOOLS AND SUPPLIES

None.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

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ATTACHMENTS

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WRAP 1 PLANT OPERATING PROCEDURE

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VII. PROCEDURE

NOTE - Equipment status is determined by visual observation of equipment and status indicating lights as applicable.

A. DETERMINE GLOVEBOX EQUIPMENT STATUS

1. CHECK each glovebox equipment/component listed on Attachment 1, LLW Entry Glovebox Equipment Status, and RECORD AS FOUND status as follows:
 - a. DRAW a line through non-applicable positions for each component.
 - b. IF component is at other than a defined position, THEN:
 - (1) DRAW a line through all defined positions.
 - (2) DESCRIBE As Found state in Comments section.
 - c. RECORD all other indications, conditions or supplemental information in Comments section.
2. CHECK each glovebox equipment/component listed on Attachment 2, LLW Sorting Glovebox Equipment Status, and RECORD AS FOUND status as follows:
 - a. DRAW a line through non-applicable position(s) for each component.
 - b. IF component is at other than a defined position, THEN:
 - (1) DRAW a line through all defined positions.
 - (2) DESCRIBE As Found state in Comments section.
 - c. RECORD all other indications, conditions or supplemental information in Comments section.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

3. CHECK each glovebox equipment/component listed on Attachment 3, LLW Exit Glovebox Equipment Status, and RECORD AS FOUND status as follows:
 - a. DRAW a line through non-applicable positions for each component.
 - b. IF component is at other than a defined position, THEN:
 - (1) DRAW a line through all defined positions.
 - (2) DESCRIBE As Found state in Comments section.
 - c. RECORD all other indications, conditions or supplemental information in Comments section.

B. RETURN ENTRY GLOVEBOX TO OPERATION

1. ANALYZE As Found state of glovebox to determine which equipment must be manipulated to correct operational deficiencies, as follows:
 - a. COMPARE As Found status on Attachment 1, to the following:
 - INITIALIZATION POSITION on Attachment 1.
 - Interlock information in applicable section of WRP1-OP-0719, LLW Glovebox Line Manual Operation.
 - Operational sequencing in WRP1-OP-0713, LLW Entry Glovebox Operation.
 - b. RECORD required corrections in Comments section of Attachment 1.
2. GO TO applicable section of WRP1-OP-0719 and PERFORM necessary actions to return equipment to desired status.
3. RETURN glovebox OIU to automatic operation per WRP1-OP-0719.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

C. RETURN SORTING GLOVEBOX TO OPERATION

1. **ANALYZE** As Found state of glovebox to determine which equipment must be manipulated to correct operational deficiencies, as follows:
 - a. **COMPARE** As Found status on Attachment 2, to the following:
 - **INITIALIZATION POSITION** on Attachment 2.
 - Interlock information in applicable section of WRP1-OP-0719, LLW Glovebox Line Manual Operation.
 - Operational sequencing in WRP1-OP-0714, LLW Sorting Glovebox Operation.
 - b. **RECORD** required corrections in Comments section of Attachment 2.
2. **GO TO** applicable section of WRP1-OP-0719 and **PERFORM** necessary actions to return equipment to desired status.
3. **RETURN** glovebox OIU to automatic operation per WRP1-OP-0719.

D. RETURN EXIT GLOVEBOX TO OPERATION

1. **ANALYZE** As Found state of glovebox to determine which equipment must be manipulated to correct operational deficiencies, as follows:
 - a. **COMPARE** As Found status on Attachment 3, to the following:
 - **INITIALIZATION POSITION** on Attachment 3.
 - Interlock information in applicable section of WRP1-OP-0719, LLW Glovebox Line Manual Operation.
 - Operational sequencing in WRP1-OP-0716, LLW Exit Glovebox Operation.
 - b. **RECORD** required corrections in Comments section of Attachment 3.
2. **GO TO** applicable section of WRP1-OP-0719 and **PERFORM** necessary actions to return equipment to desired status.
3. **RETURN** glovebox OIU to automatic operation per WRP1-OP-0719.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

ATTACHMENT 1: ENTRY GLOVEBOX EQUIPMENT STATUS

EQUIPMENT/COMPONENT	AS FOUND POSITION	INITIALIZE POSITION
Draw line through non-applicable positions for each component. If component is not at a defined position, then draw a line through all indicated positions and describe As Found state in Comments section. (Reference Step VII A.1)		
ENTRY PORT (107-DO-07-101)		
PORT DOOR	OPEN / CLOSED (ZS0-701 / ZSC-701)	CLOSED
PORT DOOR LOCK	LOCKED / UNLOCKED (ZSC-700A & B)	LOCKED
DRUM DOOR	OPEN / CLOSED / IN POSITION (1/2" up) (ZS-703C / ZS-703A / ZS-703B)	CLOSED
LID AGAINST DRUM DOOR	YES / NO (ZS-711)	NO
DRUM CENTERING DEVICE	EXTENDED / RETRACTED (ZS0-712A & B)	RETRACTED
LIFT TABLE (107-LT-09-202A)		
DRUM ON LIFT TABLE	YES / NO (VISUAL)	YES
DRUM UNDER PORT LED	ON / OFF (ZS-233F)	OFF
DRUM IN POSITION LED	ON / OFF (ZS-233D)	OFF
DRUM AT AGV END LED	ON / OFF (ZS-233E)	ON
AGV LOAD HEIGHT LED	ON / OFF (ZS-233G)	ON
DOWN OVERTRAVEL LED	ON / OFF (ZS-233C)	OFF
DRUM TRANSFER PORT (107-DO-07-102)		
PORT DOOR	OPEN / CLOSED (ZS0-705 / ZSC-705)	CLOSED
HVAC SEAL	INFLATED / DEFLATED (PSL-700)	INFLATED
ENTRY GLOVEBOX HOIST (107-CR-07-101A)		
DRUM IN LIFTER	YES / NO (VISUAL)	NO
LIFTER JAWS	OPEN / CLOSED (ZS0-704 / ZSC-704)	OPEN
HOIST FULLY RAISED	YES / NO (ZS-702C)	YES
HOIST TROLLEY POSITION	ENTRY PORT / TRANSFER PORT (ZS-702A & B)	ENTRY PORT

[illegible]

COMMENTS:

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

ATTACHMENT 2: SORTING GLOVEBOX EQUIPMENT STATUS

EQUIPMENT/COMPONENT	AS FOUND POSITION	INITIALIZE POSITION
Draw line through non-applicable positions for each component. If component is not at a defined position, then draw a line through all defined positions and describe As Found state in Comments section. (Reference Step VII.A.2)		
DRUM TIPPER (107-DH-07-103)		
GRAB	OPEN / CLOSED (ZS-720B / ZS-720A)	OPEN
GRAB	RAISED / LOWERED (ZS-332A / ZS-332B)	RAISED
TIPPER GRAB VERTICAL	YES / NO (ZS-333)	YES
TIPPER CLUTCH TRIPPED	YES / NO (ZS-335)	NO
LIFT TABLE (107-LT-09-203A)		
DRUM ON LIFT TABLE	YES / NO (VISUAL)	YES
DRUM UNDER PORT LED	ON / OFF (ZS-241F)	OFF
DRUM IN POSITION LED	ON / OFF (ZS-241D)	OFF
DRUM AT AGV END LED	ON / OFF (ZS-241E)	ON
AGV LOAD HEIGHT LED	ON / OFF (ZS-241G)	ON
DOWN OVERTRAVEL LED	ON / OFF (ZS-241C)	OFF
ENTRY PORT (107-DO-07-105)		
PORT DOOR	OPEN / CLOSED (ZS-734B / ZS-734A)	CLOSED
PORT DOOR LOCK	LOCKED / UNLOCKED (ZS-730A & B)	LOCKED
LID LIFTER	LIFTED / LOWERED (ZS-731A / ZS-731B)	CLOSED
LID ATTACHED	YES / NO (ZS-733B / ZS-733A)	NO
SORTING GLOVEBOX HOIST (107-CR-07-101C)		
XFER STAND ATTACHED	YES / NO (VISUAL)	YES
HOIST FULLY RAISED	YES / NO (ZS-730C)	YES
HOIST TROLLEY POSITION	TRAY LOAD OUT / TRAY LOADING (ZS-730A & B)	LOAD OUT

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

ATTACHMENT 2: SORTING GLOVEBOX EQUIPMENT STATUS

EQUIPMENT/COMPONENT	AS FOUND POSITION	INITIALIZE POSITION
Draw line through non-applicable positions for each component. If component is not at a defined position, then draw a line through all defined positions and describe As Found state in Comments section. (Reference Step VII.A.2)		
LID/DELID FIXTURE (107-RT-07-101)		
FIXTURE ELEVATION	RAISED / LOWERED (ZS-726A / ZS-726B)	RAISED
FIXTURE TRAVEL	PARK-RELID / DELID (ZS-728A / ZS-728B)	PARK
FIXTURE ROTATION	PARKED / OTHER INDEX (ZS-727A / ZS-727B)	PARKED
LID ATTACHED	YES / NO (PS-716 & VISUAL)	NO
LID/DELID FIXTURE SAW		
SAW ARM	EXTENDED / RETRACTED (ZS-724A / ZS-724B)	RETRACTED
INERT GAS FLOW	YES / NO (FSL-378)	NO
SAW MOTOR	ON / OFF (FEV-378A & VISUAL)	OFF
MANIPULATOR (107-EM-07-101)		
MANIPULATOR PARKED	POS 1 / POS 2 / NO (ZS-715A / ZS-715B / NONE)	POS 1 OR 2
LEFT ARM PARKED	YES / NO (ZS-715C)	YES
RIGHT ARM PARKED	YES / NO (ZS-715D)	YES
PACKET X-RAY		
X-RAY DRAWER	OPEN / CLOSED (ZS-334A / ZS-334B)	CLOSED
X-RAY TRAY	EXTENDED / RETRACTED (ZS-735 retracted)	RETRACTED
SORTING TABLE (107-ST-07-101)		
TABLE EXTENSION	EXTENDED / RETRACTED (ZS-717A / ZS-717C)	RETRACTED
TABLE ELEVATION	RAISED / LOWERED (ZS-717B / ZS-716A & B)	LOWERED
LOCKING PINS	LOCKED / UNLOCKED (ZS-729A & B locked)	LOCKED

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

ATTACHMENT 2: SORTING GLOVEBOX EQUIPMENT STATUS

EQUIPMENT/COMPONENT	AS FOUND POSITION	INITIALIZE POSITION
Draw line through non-applicable positions for each component. If component is not at a defined position, then draw a line through all defined positions and describe As Found state in Comments section. (Reference Step VII.A.2)		
DRUM TRANSFER CAR (107-TC-07-101)		
DRUM ON CAR	YES / NO (ZS-331)	NO
CAR POSITION	ENTRY TRANSFER PORT (ZS-710) DELID POSITION (ZS-725C) RELID POSITION (ZS-725B) COMPACTOR TRANSFER PORT (ZS-725A)	ENTRY
CAR DRIVE	ENGAGED / DISENGAGED (ZS-718A / ZS-718B)	DISENGAGED

[illegible]

COMMENTS:

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

ATTACHMENT 3: EXIT GLOVEBOX EQUIPMENT STATUS

EQUIPMENT/COMPONENT	AS FOUND POSITION	INITIALIZE POSITION
Draw line through non-applicable positions for each component. If component is not at a defined position, then draw a line through all defined positions and describe As Found state in Comments section. (Reference Step VII.A.3)		
EXIT PORT (107-DO-07-106)		
PORT DOOR	OPEN / CLOSED (ZS0-760 / ZSC-760)	CLOSED
PORT DOOR LOCK	LOCKED / UNLOCKED (ZSC-765A & B)	YES
DRUM DOOR	OPEN / CLOSED / IN POSITION (1/2" up) (ZS-7D61C / ZS-761A / ZS-761B)	CLOSED
LID AGAINST DRUM DOOR	YES / NO (ZS-764)	NO
DRUM CENTERING DEVICE	EXTENDED / RETRACTED (ZS0-767A & B)	RETRACTED
SEAL INFLATED	YES / NO (PS-768)	NO
LIFT TABLE (107-LT-09-202C)		
DRUM ON LIFT TABLE	YES / NO (VISUAL)	YES
DRUM UNDER PORT LED	ON / OFF (ZS-237F)	OFF
DRUM IN POSITION LED	ON / OFF (ZS-237D)	OFF
DRUM AT AGV END LED	ON / OFF (ZS-237E)	ON
AGV LOAD HEIGHT LED	ON / OFF (ZS-237G)	OFF
DOWN OVERTRAVEL LED	ON / OFF (ZS-237C)	OFF
EXIT GLOVEBOX HOIST (107-CR-07-101D)		
DRUM IN LIFTER	YES / NO (VISUAL)	NO
LIFTER JAWS	OPEN / CLOSED (ZS0-766 / ZSC-766)	OPEN
HOIST FULLY RAISED	YES / NO (ZS-763A)	YES
HOIST TROLLEY POSITION	STORE 1 / STORE 2 / RECEIPT (ZS-702B , C & D)	RECEIPT
EXIT GLOVEBOX COMPACT CONVEYOR (CV-07-101/M1)		
PUCK ON CONVEYOR	YES / NO (ZS-762)	NO
CONVEYOR DRIVE	ENERGIZED / DE-ENERGIZED (VISUAL)	DE-ENERGIZED

[illegible]

[illegible]

WRAP 1 PLANT OPERATING PROCEDURE

SYSTEM: PROCESS

GLOVEBOX LIFT TABLE MANUAL OPERATION

(HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

This procedure provides instructions for manual operation of drum lift tables at various locations throughout the facility. Automatic operation of lift tables is described in applicable glovebox operating procedures.

II. REFERENCE DOCUMENTS

WRP1-OP-0704, Glovebox Manipulator Operation.
 WRP1-OP-0713, LLW Entry Glovebox Operation.
 WRP1-OP-0714, LLW Sorting Glovebox Operation.
 WRP1-OP-0716, LLW Exit Glovebox Operation.
 WRP1-OP-0717, LLW/RWM Process Glovebox Operation.

III. PRESTART CONDITIONS

All personnel performing this procedure shall be qualified in accordance with Waste Management Hanford Procedures Manual, Section 5.1, "Training and Qualification," and on-the-job training.

Verify daily radiological dose rates and contamination level for gloves have been established by Radiological Control.

IV. SAFETY

All potential hazards, such as lifting heavy containers or handling sharp objects present in waste containers, must be mitigated by protective equipment, procedures, and administrative controls to ensure acceptable-risk operating conditions.

Warning - In manual control (maintenance) mode there is no interlock to prevent drum over-travel. If the reverse switch is held in after the drum reaches the Automatic Guided Vehicle (AGV) end of the table and the AGV is not in place, the drum will fall to the floor. There is also no interlock to stop up-travel based on weight setpoint and no indication that lift table is at drum centering height.

Caution - Lift tables LT-09-201C, LT-09-202D, and LT-09-202E, when lowered, interfere with AGV travel near the LLW and TRU RWM glovebox lines. Before lowering these tables below AGV LOAD HEIGHT (27 [26-7/8 to 27-1/8] inches from floor to top of rollers), the operator must disable the AGV to ensure that it will not travel into the lift table area.

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WRAP 1 PLANT OPERATING PROCEDURE

(HNH-SD-W026-OTP-015)

V. TOOLS AND SUPPLIES

- Tape measure.

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WRAP 1 PLANT OPERATING PROCEDURE

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VII. PROCEDURE

NOTE 1 - This procedure covers manual operation of all WRAP lift tables, therefore equipment tag numbers are not referenced in the individual steps. Tag numbers for referenced equipment are located in Table 1. When equipment is called out by name, reference to applicable equipment number is understood.

NOTE 2 - Unless otherwise stated, switches and indicators are located on the applicable Lift Table Control Panel.

CAUTION

TABLE RESPONDS QUICKLY TO PRESSURE ON CONTROL SWITCHES. A "LIGHT TOUCH" MUST BE USED ON SWITCHES WHEN JOGGING DRUM INTO POSITION. OVER-DRIVING DRUM INTO PORT COULD RESULT IN EQUIPMENT DAMAGE. DO NOT EXCEED LIFT TABLE MATING PRESSURE BY MORE THAN 50 KILOGRAMS (Reference Table 2).

WARNING

IN MANUAL CONTROL (MAINTENANCE) MODE THERE IS NO INTERLOCK TO PREVENT DRUM OVER-TRAVEL. IF THE REVERSE SWITCH IS HELD AFTER THE DRUM REACHES THE AGV END OF THE TABLE AND THE AGV IS NOT IN PLACE, THE DRUM WILL FALL TO THE FLOOR. THERE IS ALSO NO INTERLOCK TO STOP UP-TRAVEL BASED ON WEIGHT SETPOINT AND NO INDICATION THAT LIFT TABLE IS AT DRUM CENTERING HEIGHT.

A. GENERAL REQUIREMENTS

1. After placing lift table in Manual Control (Maintenance) mode per Section VII.B, VII.C, other sections of this procedure may be performed repeatedly and in any order necessary to facilitate work. Section VII.E must always be performed before returning the lift table to automatic operation.
2. WHEN positioning lift tables, operator may "jog" UP/DOWN or FORWARD/REVERSE buttons as required.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

WARNING

WORK THROUGH GLOVEPORTS MAY INVOLVE PLACING HANDS IN CLOSE PROXIMITY TO MOVING EQUIPMENT. CARE MUST BE TAKEN TO PREVENT INJURY.

3. IF at any time during performance of this procedure, work is to be performed through gloveports,
THEN:
 - a. CHECK status and location of moving equipment in proximity of gloveport(s) to be used.
 - b. TAKE action, including any of the following, as deemed necessary to prevent injury:
 - AVOID equipment when reaching through port(s)
 - PRESS glovebox E-Stop to stop glovebox equipment
 - CONSULT DOS when unsure
 - c. PERFORM a contamination survey of hands, arms and front of body upon exiting glove:
 - (1) IF contamination is detected,
THEN, CONTACT Radiological Control Technician.

B. LIFT TABLE MANUAL OPERATION

1. Place Lift Table In Manual Control (Maintenance Mode)
 - a. ENSURE glovebox manipulator is PARKED (Reference WRP1-OP-0704, Glovebox Manipulator Operation).
 - b. PLACE "MODE" (MAINT/OFF/NORMAL) switch to "MAINT".
2. Lower Drum From AGV Load Height

NOTE - *Only those Lift Tables indicated by (*) in Table 1, need to be lowered from AGV Load Height for drum to clear port. Port clearance height is checked visually or with a tape measure when visual inspection is not possible.*

- a. LOWER lift table to DRUM CLEARANCE HEIGHT. (Reference Table 2).
- b. IF "DOWN OVERTRAVEL" light comes ON,
THEN, PRESS "UP" switch until light goes OFF.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

3. REMOVE clamp and lid, as needed, from drum per applicable procedure:

- WRP1-OP-0713, LLW Entry Glovebox Operation.
- WRP1-OP-0714, LLW Sorting Glovebox Operation.
- WRP1-OP-0716, LLW Exit Glovebox Operation.
- WRP1-OP-0717, LLW/RWM Process Glovebox Operation.

C. LIFT TABLE MANUAL OPERATION

1. Position Drum Under Port

- a. VERIFY heights of listed items, as applicable:

- (1) 55 gallon drum with lid and clamp band attached:
 - 34-5/8 (34-1/2 to 34-3/4) inches.
- (2) 85 gallon overpack drum with lid and clamp band attached:
 - 39-1/16 (38-15/16 to 39-3/16) inches.

NOTE - Only those lift tables indicated by () on Table 1, need lowered from AGV LOAD HEIGHT for drum to clear port. Port clearance height is checked visually.*

- b. IF necessary, THEN, ENSURE lift table is lowered to port clearance height.
- c. FORWARD lift table until drum is centered beneath port and DRUM UNDER PORT light is ON.

2. Lift Drum To Port

- a. ENSURE drum is properly positioned under port.
- b. ENSURE drum port is CLOSED, per applicable procedure.
- c. VERIFY the following for Entry/Exit ports:
 - Centering devices: RETRACTED.
 - HVAC.seal, as applicable: DEFLATED
 - Lid Detach rod: RETRACTED.

WRAP 1 PLANT OPERATING PROCEDURE

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d. VERIFY correct drum PIN, per applicable procedure:

- WRP1-OP-0713, LLW Entry Glovebox Operation.
- WRP1-OP-0714, LLW Sorting Glovebox Operation.
- WRP1-OP-0716, LLW Exit Glovebox Operation.
- WRP1-OP-0717, LLW/RWM Process Glovebox Operation.

NOTE - *Proper drum to port mating is determined by drum to port mating pressure or drum height, depending on port type.*

e. DETERMINE correct drum to port MATING PRESSURE or DRUM CENTERING HEIGHT per Table 2.

f. RAISE drum to correct height, non-ENTRY/EXIT Port:

CAUTION

(1) ENSURE lift table scale (on top of table control pedestal) units are set to "kg" (kilograms).

(2) RAISE lift table until drum mates to port.

(3) JOG UP/DOWN to correct MATING PRESSURE.

g. RAISE drum to correct height, ENTRY/EXIT Port:

(1) RAISE lift table to DRUM CENTERING HEIGHT.

(2) VERIFY with tape measure, lift table at DRUM CENTERING HEIGHT (Reference Table 2).

(3) EXTEND centering clamps.

(4) VERIFY centering clamps extended.

NOTE - *Entry/Exit port maintenance menus have a light that indicates port LID IN POSITION sensor is actuated by the drum lid.*

(5) RAISE lift table to LID IN POSITION HEIGHT.

(6) TURN ON port vacuum.

(7) VERIFY vacuum generated.

WRAP 1 PLANT OPERATING PROCEDURE

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- (8) IF HVAC Seal Present:
 - (a) INFLATE HVAC seal.
 - (b) VERIFY HVAC seal inflated.
- (9) UNLOCK port.
- (10) VERIFY port unlocked.

NOTE: Entry/Exit port maintenance menus have a light that indicates when port DRUM IN POSITION sensor is activated by raising the port door ~ 1/2 inch above glovebox floor.

- (11) RAISE lift table to DRUM IN POSITION height.
 - h. JOG lift table "UP/DOWN" switches to adjust position/mating pressure as required.
 - i. OPERATE drum port per applicable procedure.
3. Lower Drum From Port
- a. ENSURE drum port is CLOSED, per applicable procedure.
 - b. PERFORM the following for Entry/Exit Ports:
 - (1) LOWER lift table to LID IN POSITION HEIGHT.
 - (2) VERIFY Port Door LOWERED.
 - (3) LOCK Port Door.
 - (4) VERIFY Port Door Locked.
 - (5) EXTEND lid detach cylinder
 - (6) LOWER lift table to DRUM CENTERING HEIGHT.
 - (7) RETRACT lid detach cylinder.
 - (8) RETRACT centering clamps.
 - (9) IF port is equipped with HVAC seal,
THEN:
 - (a) DEFLATE HVAC seal.
 - (b) VERIFY HVAC seal deflated.

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NOTE - Only those Lift Tables indicated by () in Table 1, need lowered from AGV Load Height for drum to clear port. Port clearance height is checked visually.*

- c. LOWER lift table to AGV LOAD HEIGHT (AGV LOAD HEIGHT light ON), or port clearance height, as applicable.
- d. IF DOWN OVERTRAVEL light comes ON,
THEN, PRESS UP switch until light goes OFF.
- e. REQUEST RCT survey drum.
- 4. MOVE drum to AGV end of lift table

NOTE - Only those Lift Tables indicated by () in Table 1, need lowered from AGV Load Height for drum to clear port. Port clearance height is checked visually.*

- a. IF necessary,
THEN, ENSURE lift table is lowered to port clearance height.
- b. REVERSE lift table until DRUM AT AGV END light is ON.
- c. IF drum extends past end of lift table,
THEN, FORWARD lift table until drum is at desired position.

D. RETURN LIFT TABLE TO NORMAL OPERATION

- 1. PLACE MODE switch to NORMAL.

NOTE - Only Lift Tables 107-LT-09-201A through 201F are equipped with Table Control switch.

- 2. IF equipped with TABLE CONTROL switch,
THEN, PLACE TABLE CONTROL switch to AGV.

WRAP 1 PLANT OPERATING PROCEDURE

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E. REHOME LIFT TABLE

1. IF any of the following have occurred:

- Power outage affecting lift table,
- Lift table was used in manual mode,
- Lift table rope switch was activated,

THEN, REHOME affected lift table(s) as follows:

- a. PLACE glovebox in Maintenance Mode.
- b. VERIFY lift table is EMPTY.
- c. POSITION lift table ABOVE AGV LOAD HEIGHT.
- d. IF affected lift table is marked by an (*) on Table 1, THEN, LOWER lift table BELOW AGV LOAD HEIGHT.
- e. SELECT MISCELLANEOUS EQUIPMENT MAINTENANCE MENU.

NOTE - XX refers to last two digits in lift table tag number.

- f. PRESS REHOME LIFT TABLE LT-09-20XX button.
- g. VERIFY lift table at AGV LOAD HEIGHT:
 - AGV LOAD HEIGHT indicator ON and/or,
 - Lift table rollers at 27 (26-7/8 to 27-1/8) inches above floor.

WRAP 1 PLANT OPERATING PROCEDURE

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FIGURE 1: LIFT TABLE LOCAL CONTROL PANEL

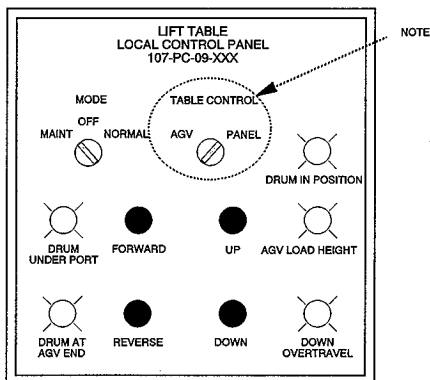


TABLE 1: LIFT TABLE/CONTROL PANEL DESCRIPTIONS

LOCAL CONTROL PANEL NUMBER	LIFT TABLE NUMBER	DESCRIPTION
107-PC-09-201A	107-LT-09-201A	TRU RWM TREATED WASTE LOADOUT PORT/LIFT TABLE
107-PC-09-201B	107-LT-09-201B	TRU RWM COMPLIANT WASTE LOADOUT PORT/LIFT TABLE
107-PC-09-201C	107-LT-09-201C	TRU RWM TRANSFER DRUM PORT/LIFT TABLE
107-PC-09-201D	* 107-LT-09-201D	LLW RWM TREATED WASTE LOADOUT PORT/LIFT TABLE
107-PC-09-201E	107-LT-09-201E	LLW RWM COMPLIANT WASTE LOADOUT PORT/LIFT TABLE
107-PC-09-201F	107-LT-09-201F	LLW RWM TRANSFER DRUM PORT/LIFT TABLE
107-PC-09-202A	107-LT-09-202A	LLW ENTRY GLOVEBOX PORT/LIFT TABLE
107-PC-09-202B	107-LT-09-202B	TRU ENTRY GLOVEBOX PORT/LIFT TABLE
107-PC-09-202C	* 107-LT-09-202C	LLW EXIT GLOVEBOX LOADOUT POSITION/LIFT TABLE
107-PC-09-202D	* 107-LT-09-202D	TRU EXIT GLOVEBOX LOADOUT POSITION #1/LIFT TABLE
107-PC-09-202E	* 107-LT-09-202E	TRU EXIT GLOVEBOX LOADOUT POSITION #2/LIFT TABLE
107-PC-09-203A	107-LT-09-203A	LLW TRANSFER PORT/LIFT TABLE FOR RWM TRANSFER DRUMS
107-PC-09-203B	107-LT-09-203B	TRU TRANSFER PORT/LIFT TABLE FOR RWM TRANSFER DRUMS
107-PC-09-203C	107-LT-09-203C	TRU EMPTY DRUM COMPACTION LOADOUT PORT/LIFT TABLE

NOTE: TABLE CONTROL switch is used on panels 107-PC-09-201A through 201F only.
 NOTE: Marked tables (*) must be lowered from AGV Load Height to move drum under (clear) port.

WRAP 1 PLANT OPERATING PROCEDURE

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TABLE 2: DRUM MATING PRESSURE/CENTERING HEIGHT

NOTE: All linear measurements +/- 1/32 inch unless otherwise stated.

LIFT TABLE	MATING PRESSURE (KG)	DRUM CLEARANCE HEIGHT (inches *)	DRUM CENTERING HEIGHT (inches *)	LID IN POSITION HEIGHT (inches *)
107-LT-09-201A	300 (250 to 350)	N/A	N/A	N/A
107-LT-09-201B	300 (250 to 350)			
107-LT-09-201C	600 (550 to 650)			
107-LT-09-201D	N/A	18.5 (18.0 to 19.0)	35-1/8	35-5/8
107-LT-09-201E			39-3/16	39-3/8
107-LT-09-201F	600 (550 to 650)			
107-LT-09-202A	N/A		33-3/16	33-1/4
107-LT-09-202B			37-1/16	37-7/16
107-LT-09-202C		13 (12.5 to 13.5)	24-7/8	25-3/8
107-LT-09-202D	300 (250 to 350)	19 (18.5 to 19.5)	N/A	N/A
107-LT-09-202E	300 (250 to 350)	19 (18.5 to 19.5)		
107-LT-09-203A	600 (550 to 650)	N/A		
107-LT-09-203B				
107-LT-09-203C				

NOTE *: Measured from floor to top of rollers on lift table.

WRAP 1 PLANT OPERATING PROCEDURE

SYSTEM: PROCESS

GLOVEBOX MANIPULATOR (HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

This procedure provides instructions for operation of Schilling Robotic Systems, Glovebox Manipulators.

Glovebox Manipulators are used for moving materials and equipment, and performing tasks inside the gloveboxes.

II. REFERENCE DOCUMENTS

None.

III. PRESTART CONDITIONS

All personnel performing this procedure shall be qualified in accordance with Waste Management Hanford Procedures Manual, Section 5.1, "Training and Qualification," and on-the-job training.

IV. SAFETY

Potential hazards, such as lifting heavy containers or handling sharp objects present in waste containers, must be mitigated by protective equipment, procedures, and administrative controls to ensure acceptable-risk operating conditions.

V. TOOLS AND SUPPLIES

None.

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WRAP 1 PLANT OPERATING PROCEDURE

(HNH-SD-W026-OTP-015)

VII. PROCEDURE

A. GENERAL REQUIREMENTS

1. Sections VII.B through VII.I of this procedure may be performed repeatedly and in any order necessary to facilitate work.

WARNING

WORK THROUGH GLOVEPORTS MAY INVOLVE PLACING HANDS IN CLOSE PROXIMITY TO MOVING EQUIPMENT. CARE MUST BE TAKEN TO PREVENT INJURY.

2. IF at any time during performance of this procedure, work is to be performed through gloveports,
THEN:
 - a. CHECK status and location of moving equipment in proximity of gloveport(s) to be used.
 - b. TAKE action, including any of the following, as deemed necessary to prevent injury:
 - AVOID equipment when reaching through port(s)
 - PRESS glovebox E-Stop to stop glovebox equipment
 - CONSULT DOS when unsure
 - c. PERFORM a contamination survey of hands, arms and front of body upon exiting glove:
 - (1) IF contamination is detected,
THEN, CONTACT Radiological Control Technician.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

B. SYSTEM STARTUP

CAUTION

ERRATIC, UNCONTROLLED MOVEMENT OF SLAVE ARMS MAY DAMAGE EQUIPMENT.

1. IF at any time during startup or operation, slave arms move erratically or uncontrolled,
THEN immediately:
 - a. PRESS EMERGENCY STOP button on either side of carriage controller (Figure 1) IN.
 - b. TURN master control panel (Figure 2) POWER switch OFF.

NOTE - Problem which caused erratic movement must be corrected prior to restart of system.

 - c. CONTACT Duty Operation Supervisor (DOS).
 2. PERFORM pre-start checks:
 - a. INSPECT, visually, fasteners and fittings are properly connected and in good condition.
 - b. INSPECT, visually, hoses are free of cuts, nicks, kinks, and excessive sagging.
 - c. INSPECT, visually, slave arms are free of hydraulic leaks.
 3. ENSURE disconnect switch on Control & Instrumentation (C&I) enclosure for desired manipulator is set to ONE.
 4. ENSURE EMERGENCY STOP buttons on carriage controller are OUT.
 5. TURN master control panel POWER switch ON.
- NOTE - Screen briefly displays "Establishing communication with slave unit" when power is first applied.*
6. IF screen displays no readable text,
THEN, TOGGLE master control POWER switch (OFF and back ON).
 - a. IF screen remains blank,
THEN, NOTIFY DOS.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

B. SYSTEM STARTUP (Cont.)

7. IF STARTUP WITH ERRORS screen displays,
THEN, GO TO Section VII.D, STARTUP WITH SYSTEM ERRORS.

ERRORS WERE DETECTED:

LF slave not detected

RT arm not near STOW point

Keys error (0 0 0 0 0 0 0 0 0 1 0 0 0 0)

Diagnose errors before starting
hydraulics. Press the DOWN key
to view the next menu.

8. IF NORMAL STARTUP screen displays,
THEN, PROCEED as follows:

Startup Procedures:

1. Turn on hydraulics after verifying that slave arms are at the STOW IN point.
2. Turn hydraulics off if the slave arms move from their current positions.
3. Press DOWN key to exit.

4> Hydr: OFF

Hydr: OFF <8

NOTE - HPU 107-HU-07-302 is common to all manipulators and will be running already if another manipulator is operating. Another Start/Stop switch is located on the HPU Control Panel at HPU on overhead walkway.

- a. IF Hydraulic Power Unit (HPU), 107-HU-07-302 is OFF,
THEN, PRESS "START" button "I" beam behind Glovebox 102.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

B. SYSTEM STARTUP (Cont.)

NOTE - Pressing indicated function keys toggles hydraulic power to slave arms by opening and closing isolation valves. Corresponding screen flag will change to indicate state OFF/ON.

- b. PRESS the following STARTUP screen keys to enable slave arm hydraulic power:
 - "4> HYDR" - enable left slave arm
 - "8> HYDR" - enable right slave arm
- c. CHECK, HYDR indicators on display:
 - 4> HYDR: ON
 - 8> HYDR: ON
- d. PRESS DN (down) function key on master control panel.
- e. VERIFY STOW OUT menu displayed.

```

STOW OUT
----- <left<  >right> -----
1> Stow Out                               Stow Out <5
2> Stow In                                Stow In <6
3> Stop Pnt: IN                          Pnt: IN Stop <7
                                           EXIT <8
-----
After stowing out press EXIT key.
  
```

- f. PRESS "1> STOW OUT" (left arm).
- g. VERIFY left arm display (PNT), indicates OUT.
- h. PRESS "5> STOW OUT" (right arm).
- i. VERIFY right arm display (PNT), indicates OUT.
- j. PRESS "8> EXIT" (to MAIN menu).
- k. GO TO Section VII.C, NORMAL SYSTEM OPERATION.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

C. NORMAL SYSTEM OPERATION

NOTE - This section assumes dual-arm system operation. If one slave arm controller is disabled, menus and choices for only the active arm will be available.

Normal operation of the manipulator, with exception of setting different system characteristics is gained primarily from on-the-job training and experience.

The user manipulates the system via master arms on the master control panel, and arm carriages, and selects or changes desired operating characteristics as needed.

This section describes basic master arm operating functions, carriage movement, and OPERATE menu selections. The user is referenced to applicable sections for setting specific characteristics.

The master control panel display is normally left on the OPERATE menu, which provides easy access to the most common functions and allows for quick change between LEFT and RIGHT by use of LEFT/RIGHT function keys.

1. VERIFY MAIN menu displayed.

NOTE - User returns to MAIN menu as needed by pressing EXIT from other menus until MAIN menu displays.

MAIN MENU		LOCK: LOCK
-----		>right<
1> ROBOTICS	SETUP	<5
2> OPTIONS	DIAGNOSE	<6
3> OPERATE	SHUT DOWN	<7
4> OPERATE BOTH	Up key turns hydraulics OFF	

Press LEFT or RIGHT key to switch between LF and RT menus.		

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

C. NORMAL SYSTEM OPERATION (Cont.)

NOTE - OPERATE selects left/right OPERATE menu depending on flag when selection is made. To select opposite OPERATE menu, Operator must return to MAIN menu. OPERATE BOTH allows operator to toggle left/right OPERATE menus using LF/RT function keys, without returning to MAIN menu.

2. IF access to only one OPERATE menu is desired,
THEN:
 - a. PRESS LF (left) OR RT (right) function key until desired choice is flagged on MAIN menu.
 - b. PRESS "> OPERATE".
3. IF access to both LEFT and RIGHT OPERATE menus is desired,
THEN, PRESS "> OPERATE BOTH".
4. VERIFY OPERATE menu displayed.

OPERATE	FRZ: FRZ
-----	>right> -----
1> FREEZE	Wrist Md: POS
	<5
2> DRIVERS	Jaw Md: OPEN
	<6
	EXIT <8

TABLE 1 - OPERATE MENU FUNCTIONS

SELECTION	DESCRIPTION
FREEZE	Displays menu to freeze/unfreeze individual slave arm joints.
DRIVERS	Controls slave arm hydraulics through hydraulic isolation valves.
WRIST MODE	Toggles wrist operating mode.
JAW MODE	Toggles jaw operating mode.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

C. NORMAL SYSTEM OPERATION (Cont.)

5. Master Arm Operation

NOTE - Master arms (Figure 3) are miniature replicas of left and right slave arms, with the same relative range of motion. Each slave arm joint or function has a corresponding master arm action.

- a. ACTUATE master arm action(s) (TABLE 2), as required, to manipulate corresponding slave arm:

TABLE 2 - MASTER ARM CONTROL ACTIONS	
DESIRED SLAVE ARM FUNCTION	OPERATOR ACTION ON MASTER ARM
MOVE SLAVE ARM JOINT	MOVE master arm joint corresponding to slave arm joint.
FREEZE SLAVE ARM IN PRESENT POSITION	PRESS FREEZE button on end of master arm (toggles arm freeze).
ROTATE WRIST	ROTATE master arm wrist collar.
OPEN/CLOSE JAW	SQUEEZE applicable textured jaw band on master arm.
NOTE - Changing from one menu to another automatically freezes both slave arms.	

6. Changing Slave Arm To Master Arm Correspondence

NOTE - When a slave arm is frozen, its master arm can be repositioned to a more comfortable operating position without moving the slave arm. This is useful when a task results in an awkward position for the master arm.

- a. FREEZE slave arm.
- b. REPOSITION master arm as desired.
- c. UNFREEZE slave arm.
- d. RESUME normal operation.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

C. NORMAL SYSTEM OPERATION (Cont.)

7.. Jaw Operation

NOTE - *Slave arm must be unfrozen to change jaw mode.*

a. SET jaws to desired mode as follows:

(1) VERIFY OPERATE menu displayed.

OPERATE	FRZ: FRZ
-----	>right> -----
1> FREEZE	Wrist Md: POS
	<5
2> DRIVERS	Jaw Md: OPEN
	<6
	EXIT <8

(2) PRESS "6> JAW MD" to toggle modes (TABLE 3).

TABLE 3 - JAW MODES	
MODE	JAW OPERATING CHARACTERISTICS
OPEN	SQUEEZE forward band to fully CLOSE jaws. SQUEEZE aft band to fully OPEN jaws.
TOGGLE	SQUEEZE forward band to toggle jaws between OPENED and CLOSED (aft band has no effect).
LOCK	FREEZE jaws in current position until another mode is selected.
POSITION	SQUEEZE forward band to incrementally CLOSE jaws. SQUEEZE aft band to fully OPEN jaws.

WRAP 1 PLANT OPERATING PROCEDURE

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C. NORMAL SYSTEM OPERATION (Cont.)

8. Controlling Wrist Rotation

NOTE - The wrist has two modes of operation: In POSITION mode the slave arm wrist follows (direction and speed) rotation of the master arm wrist collar. Rotation is limited by master arm wrist collar to 270°.

In RATE mode, rotating the master arm wrist collar in either direction from null position causes the slave arm wrist to rotate continuously in the corresponding direction. Rate of rotation is proportional to degree of rotation of the master collar from null position. Freezing the slave arm or rotating the wrist slightly in the opposite direction will stop rotation.

a. CHANGE wrist mode as follows:

- (1) ENSURE OPERATE menu displayed.
- (2) ENSURE slave arm unfrozen.
- (3) PRESS "5> WRS MD" (toggles setting).

NOTE - Null position applies to RATE mode only. Null position is the position of the master arm wrist collar at the point where either: (1) wrist mode was changed from POSITION to RATE, or (2) slave arm was unfrozen. This means the null position could be close to one of the wrist collar mechanical stops.

b. ESTABLISH new wrist null position as follows:

- (1) FREEZE slave arm.

NOTE - NULL is normally set close to center of wrist collar mechanical range.

- (2) MOVE wrist collar to desired null position.
- (3) UNFREEZE slave arm.

WRAP 1 PLANT OPERATING PROCEDURE

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C. NORMAL SYSTEM OPERATION (Cont.)

9. Stowing Slave Arms

NOTE - Slave arms are moved to their STOWED IN, (protected) position for transport by carriages inside glovebox and to their STOWED OUT (deployed) position for working.

CAUTION

IF A SLAVE ARM IS NOT STOWED OUT WHEN A STOW COMMAND IS ISSUED, THE MESSAGE "ARM NOT NEAR STOW POINT" DISPLAYS. THE ARM THEN MOVES FIRST, TO THE STOW OUT POSITION, THEN TO THE COMMANDED POINT. BE PREPARED FOR ARM TO MOVE TO STOW OUT POSITION BEFORE IT MOVES THROUGH THE STOW/DEPLOY SEQUENCE.

ONCE STOW IN IS SELECTED, ARM MUST BE ALLOWED TO MOVE TO FULL STOW IN POSITION BEFORE EXITING APPLICABLE MENU.

- a. ENSURE stow paths are clear of obstructions which could damage or be damaged by slave arms.
- b. SELECT "Shutdown" from Main Menu.
- c. PRESS function keys (TABLE 6), as required, to STOW slave arm(s) to desired position:
 - (1) PRESS STOP to halt slave arm at next point in sequence.
 - (2) IF slave arm is being STOWED IN, THEN, PRESS STOW OUT at any point to reverse sequence.
 - (3) IF slave arm is being STOWED OUT, THEN, PRESS STOW IN at any point to reverse sequence.

TABLE 6 - STOW FUNCTION KEYS

FUNCTION KEY		FUNCTION	ACTION
LEFT ARM	RIGHT ARM		
1	5	STOW OUT	Deploys arm to Stow Out position.
2	6	STOW IN	Retracts arm to Stow In position.
3	7	STOP	Stops arm travel at next point in Stow Out/In sequence
PNT: Indicates each Stow sequence point as arm passes through it.			

WRAP 1 PLANT OPERATING PROCEDURE

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C. NORMAL SYSTEM OPERATION (Cont.)

10. Moving Carriages

CAUTION

- CARRIAGES MAY RUN INTO OBSTRUCTIONS (CABLES, HOSES, PROCESS ITEMS OR PROCESS EQUIPMENT) INSIDE GLOVEBOX.
- CARRIAGE WILL STOP MOVING WHEN MECHANICAL STOP IS REACHED. DO NOT HOLD MOVEMENT BUTTONS AFTER CARRIAGE REACHES MECHANICAL STOP OR EQUIPMENT MAY BE DAMAGED.
- CARRIAGE MUST COME TO A COMPLETE STOP BEFORE REVERSING DIRECTIONS.
- OPERATING HORIZONTAL CARRIAGE WITH LOW HYDRAULIC PRESSURE CAN DAMAGE EQUIPMENT.

- a. PRESS and HOLD movement button(s) on carriage controller until carriage reaches desired position, THEN, RELEASE.

11. Vertical Carriage Obstructions

- a. IF vertical carriage encounters an obstruction too heavy to push aside, THEN:
 - (1) RELEASE activated movement button.
 - (2) CHECK for obstruction(s).
 - (3) MOVE obstructions as necessary.
 - (4) RESUME normal operations.

WRAP 1 PLANT OPERATING PROCEDURE

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C. NORMAL SYSTEM OPERATION (Cont.)

12. Horizontal Carriage Obstructions

NOTE - Horizontal carriage is equipped with a torque limiter which may be tripped by any of the following; horizontal carriage hits obstacle too heavy to push aside, foreign obstacle in carriage pulley or sprocket, slave arm grasping fixed object during carriage movement, carriage at end of travel, carriage rail is bent or damaged.

HORIZ SLIP light is ON only when torque limiter trips and movement button is pressed.

- a. IF HORIZ SLIP light illuminates,
THEN:

- (1) RELEASE activated movement button.
- (2) CHECK for obstructions or other cause.

NOTE - Torque limiter may self reset when fault is cleared.

- (3) CORRECT obstructions or fault as necessary.
- (4) RESUME normal operations.

- b. IF cause of fault is not readily apparent,

OR

IF torque limiter remains tripped after fault is cleared,
THEN, RESET torque limiter as follows:

NOTE - HORIZ SLIP light will be ON when moving carriage.

- (1) MOVE carriage in opposite direction of fault until mechanical stop is encountered.
- (2) JOG (repeatedly press and release) button used to move carriage to mechanical stop, until torque limiter resets (listen for reset).
- (3) VERIFY HORIZ SLIP light remains OFF when carriage is moved in either direction.
- (4) REPEAT actions until reset.
- (5) RESUME normal operations.

WRAP 1 PLANT OPERATING PROCEDURE

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C. NORMAL SYSTEM OPERATION (Cont.)

13. Changing Individual System Operating Characteristics

a. CHANGE characteristics as follows:

- (1) GO TO Section indicated in TABLE 4.
- (2) MAKE changes as required.
- (3) RESUME normal operation.

TABLE 4 - OPERATING CHARACTERISTICS ATTACHMENTS	
SECTION	TITLE / CHARACTERISTICS
VII.E	SET SLAVE ARM CHARACTERISTICS: 1. Stowing Slave Arms 2. Set Stow Sequence 3. Freezing Entire Slave Arm 4. Freezing Individual Slave Arm Joints 5. Controlling Slave Arm Speed 6. Enabling And Disabling Slave Arm Hydraulics 7. Set Slave Arm Movement Limits
VII.F	SET JAW OPERATING CHARACTERISTICS: 1. Set Jaw Closing Speed 2. Set Jaw Offset Values
VII.G	SET DISPLAY ATTRIBUTES

D. STARTUP WITH SYSTEM ERRORS

1. DETERMINE cause of error(s) (TABLE 5).
2. TAKE applicable corrective action per TABLE 5.

ERRORS WERE DETECTED:

LF slave not detected

RT arm not near STOW point

Keys error (0 0 0 0 0 0 0 0 0 1 0 0 0 0)

Diagnose errors before starting hydraulics. Press the DOWN key to view the next menu.

WRAP 1 PLANT OPERATING PROCEDURE

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D. STARTUP WITH SYSTEM ERRORS (Cont.)

TABLE 5 - STARTUP WITH ERRORS		
ERROR MESSAGE	CAUSE	ACTION
(XX*) slave not detected	Master controller failed to establish communication with one of the slave controllers	Notify Supervision
(XX*) arm not near STOW point	Left or right slave arm not in stowed position	GO TO Step VII.D.4
Keys error (0 0 0 0 0 0 0 0 0 1 0 0 0 0)	Master controller keys and/or master arm freeze button are currently being pressed or need maintenance	GO TO Step VII.D.3
Note *: XX indicates failed channel: LF (left) or RT (right)		

3. IF a key error message is displayed,
THEN, PROCEED as follows:
 - a. IF a key or FREEZE button is actually being pressed,
THEN:
 - (1) REMOVE pressure from key or REPOSITION master arm so freeze button is released.
 - (2) SKIP to Step VII.D.4.
 - b. IF a key or freeze button is not being pressed,
THEN:
 - (1) DO NOT enable hydraulics or deploy slave arms.
 - (2) PRESS DN function key on master control panel.
 - (3) VERIFY MAIN menu displayed.
 - (4) NOTIFY DOS.
4. PRESS DN function key on master control panel.
5. VERIFY MAIN menu for right slave arm displayed.
6. PRESS "> OPERATE".

WRAP 1 PLANT OPERATING PROCEDURE

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D. STARTUP WITH SYSTEM ERRORS (Cont.)

7. VERIFY OPERATE menu displayed.

OPERATE		FRZ: FRZ
-----	>right>	-----
1> FREEZE		Wrist Md: POS
		<5
2> DRIVERS		Jaw Md: OPEN
		<6
		EXIT <8
-----		-----

8. PRESS "2> DRIVERS".
9. VERIFY DRIVERS menu displayed.

DRIVERS		LOCK: LOCK
-----	>right>	-----
1> #1: OFF		#5: OFF <5
2> #2: OFF		Hydr: ON <6
3> #3: OFF		
4> #4: OFF		EXIT <8
-----		-----

10. PRESS "6> HYDR" (enable right slave arm hydraulics).
11. EXIT to MAIN menu,
THEN, DISPLAY OPERATE menu for left slave arm.
12. REPEAT Steps VII.D.8 through VII.D.10 (enable left slave arm hydraulics).
13. GO TO Section VII.C, NORMAL SYSTEM OPERATION.

WRAP 1 PLANT OPERATING PROCEDURE

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E. SET SLAVE ARM CHARACTERISTICS

1. Set Stow Sequence

NOTE - Stow sequence is a series of arm movements that positions the slave arm between the protected (STOW IN) position and the deployed (STOW OUT) position. The sequence may consist of 2 to 16 slave arm positions (points).

- a. PRESS "5> SETUP" from MAIN menu.
- b. VERIFY SETUP menu displayed.

SETUP	LOCK: LOCK
-----	>right> -----
1> SET LIMITS	SET JAW SPEED <5
2> SET STOW	
3> DISPLAY	
4> SET JAW OFFSET	EXIT <8

- c. PRESS "2> SET STOW".
- d. VERIFY SET STOW menu displayed.

SET STOW	LOCK: FRZ
-----	>right> -----
Point: 01	Last <5
	Next <6
	Teach <7
LAST STOW	
<4 Point: 16	EXIT <8

- e. DETERMINE desired number of points in stow path sequence.
- f. PRESS "4> POINT", until determined number is displayed.
- g. UNFREEZE slave arm.

NOTE - Point 01 is first point in stow path, (STOW IN position).

- h. VERIFY point counter indicates 01.

WRAP 1 PLANT OPERATING PROCEDURE

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E. SET SLAVE ARM CHARACTERISTICS (Cont.)

- i. MOVE arm to desired position (point).

CAUTION

WHEN THE LAST POINT SPECIFIED IN SEQUENCE IS TAUGHT, POINT COUNTER DOES NOT INCREMENT. IF "7> TEACH" IS NOT PRESSED THE LAST POINT ACTUALLY TAUGHT PRIOR TO PRESSING "8> EXIT" BECOMES THE STOW OUT POINT. IT IS IMPORTANT TO TEACH DESIRED STOW OUT POINT BEFORE EXITING SET STOW MENU.

ALL POINTS MUST BE CLEAR OF GLOVEBOX WALLS & EQUIPMENT OR DAMAGE MAY OCCUR.

NOTE - Pressing "5> LAST", instead of "7> TEACH" returns to previous point. Pressing "6> NEXT", instead of "7> TEACH" skips point & increments point counter.

- j. PRESS "7> TEACH".
- k. VERIFY point counter increments to next number.
- l. REPEAT Steps VII.E.1.i through VII.E.1.k until all desired points have been programmed.
- m. PRESS "8> EXIT" (to SETUP menu).

2. Freezing Entire Slave Arm

NOTE - Changing from one menu to another automatically freezes both slave arms.

- a. CHECK slave arm status in upper right corner of menu:
 - REIN - normal unfrozen operation.
 - FRZ - arm frozen (can be unfrozen with master arm freeze button).
 - LOCK - arm frozen (cannot be unfrozen with freeze button from current menu).
- b. PRESS freeze button (toggles FRZ/REIN) on master arm.

WRAP 1 PLANT OPERATING PROCEDURE

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E. SET SLAVE ARM CHARACTERISTICS (Cont.)

3. Freezing Individual Slave Arm Joints

NOTE - Freezing individual joints not required for a given task, provides a more stable platform for the task.

- a. FREEZE slave arm.
- b. PRESS "3> OPERATE" from MAIN menu.
- c. VERIFY OPERATE menu displayed.

OPERATE		FRZ: FRZ
-----	>right>	-----
1> FREEZE		Wrist Md: POS
		<5
2> DRIVERS		Jaw Md: OPEN
		<6
		EXIT <8
-----		-----

- d. PRESS "1> FREEZE".
- e. VERIFY FREEZE menu displayed.

FREEZE		LOCK: LOCK
-----	>right>	-----
1> Ro1: FRZ		Wrs: REIN <5
2> Sho: REIN		
3> Elb: FRZ		REIN all <7
4> Yaw: REIN		EXIT <8
-----		-----

- f. CHECK status of individual joints on menu.
- g. PRESS indicated function to toggle status (FRZ/REIN) of each joint as desired ("7> REIN ALL", unfreezes all).
- h. PRESS "8> EXIT" (to OPERATE menu).

WRAP 1 PLANT OPERATING PROCEDURE

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E. SET SLAVE ARM CHARACTERISTICS (Cont.)

4. Controlling Slave Arm Speed

NOTE - In general, speed of master arm movement controls speed of slave arm movement. System starts in FAST mode, however SLOW mode may be selected when more precise control is needed.

- a. PRESS "2> OPTIONS", from MAIN menu.
- b. VERIFY OPTIONS menu displayed.

OPTIONS	LOCK: LOCK
-----	>right> -----
1> Dyn: FAST	
	EXIT <8

- c. PRESS "1> DYNAMICS" (toggles FAST/SLOW modes).
 - d. PRESS "8> EXIT" (to MAIN menu).
- ### 5. Enabling And Disabling Slave Arm Hydraulics

CAUTION

IF COMMANDED SLAVE ARM POSITION CHANGES WHILE HYDRAULICS ARE DISABLED, SLAVE ARM MAY ABRUPTLY MOVE TO THE NEW COMMANDED POSITION WHEN HYDRAULICS ARE RE-ENABLED. (This can happen if operator disables hydraulics, freezes a slave arm, moves the master arm, unfreezes the slave arm, and then re-enables hydraulics). IT IS IMPERATIVE THAT SLAVE ARM BE FROZEN BEFORE DISABLING SLAVE ARM HYDRAULICS. HYDRAULICS MUST BE RE-ENABLED BEFORE UNFREEZING SLAVE ARM.

NOTE - Each slave arm has a hydraulic isolation valve that is either OPEN (enable hydraulic flow to slave arm actuators), or CLOSED (disable arm movement). Hydraulics are enabled as part of the startup process, but may be toggled for operation as desired.

- a. IF hydraulics are to be immediately disabled,
THEN:
 - (1) FREEZE slave arm.
 - (2) PRESS UP function key on master control panel.

WRAP 1 PLANT OPERATING PROCEDURE

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E. SET SLAVE ARM CHARACTERISTICS (Cont.)

b. IF hydraulics are to be re-enabled or toggled,
THEN:

- (1) PRESS "2> DRIVERS" from OPERATE menu.
- (2) VERIFY DRIVERS menu displayed.

DRIVERS	LOCK: LOCK
-----	>right> -----
1> #1: OFF	#5: OFF <5
2> #2: OFF	Hydr: ON <6
3> #3: OFF	
4> #4: OFF	EXIT <8

- (3) CHECK "6> HYDR" display (ON = hyd enabled,
OFF = disabled).
- (4) PRESS "6> HYDR", to toggle hydraulics as desired.
- (5) PRESS "8> EXIT" (to OPERATE menu).

6. Set Slave Arm Movement Limits

NOTE - *Range of motion of each slave arm joint (except wrist) can be limited by specifying left/right or up/down position limit.*

- a. PRESS "5> SETUP" from MAIN menu.
- b. VERIFY SETUP menu displayed.

SETUP	LOCK: LOCK
-----	>right> -----
1> SET LIMITS	SET JAW SPEED <5
2> SET STOW	
3> DISPLAY	
4> SET JAW OFFSET	EXIT <8

- c. PRESS "1> SET LIMITS".

WRAP 1 PLANT OPERATING PROCEDURE

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E. SET SLAVE ARM CHARACTERISTICS (Cont.)

NOTE - Limits are inactive when menu is displayed.

d. VERIFY SET LIMITS menu displayed.

SET LIMITS	LOCK: FRZ
-----	>right> -----
/Count: 01	Last <5
Limit:	Next <6
ROL RETRACT	Teach <7
	EXIT <8

e. UNFREEZE slave arm.

f. VERIFY count indicates 01.

g. PRESS "6> NEXT" OR "5> LAST" to scroll through list, until desired limit (TABLE 7), indicates on display.

TABLE 7 - SLAVE ARM JOINT LIMITS		
LIMIT NUMBER	JOINT	ACTUATOR DIRECTION
01	Shoulder Roll	RETRACT
02		EXTEND
03	Shoulder Pitch	RETRACT
04		EXTEND
05	Elbow	RETRACT
06		EXTEND
07	Yaw	RETRACT
08		EXTEND

h. MOVE joint indicated on display to desired limit.

i. PRESS "7> TEACH".

j. VERIFY counter increments to next position number.

k. REPEAT Steps VII.E.6.g through VII.E.6.j until all desired limits have been set.

WRAP 1 PLANT OPERATING PROCEDURE

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E. SET SLAVE ARM CHARACTERISTICS (Cont.)

NOTE - Any joints remaining outside new limits will move to position inside limits when arm is unfrozen.

- l. MOVE arm inside new set limits.
- m. PRESS "8> EXIT" (to SETUP menu).

F. SET JAW OPERATING CHARACTERISTICS

1. Set Jaw Closing Speed

NOTE - Jaw speed increments jaw CLOSING speed when JAW MODE is set to POSITION. OPENING speed is not affected.

- a. SET jaw mode to POSITION (Reference VII.C.7).
- b. PRESS "8> EXIT" (to MAIN menu).
- c. PRESS "5> SETUP", from MAIN menu.
- d. VERIFY SETUP menu displayed.

SETUP	>right>	LOCK: LOCK
1> SET LIMITS		SET JAW SPEED <5
2> SET STOW		
3> DISPLAY		
4> SET JAW OFFSET		EXIT <8
.....		

- e. PRESS "5> SET JAW SPEED".
- f. VERIFY SET JAW SPEED menu displayed.

SET JAW SPEED	>right>	LOCK: FRZ
1> INCREMENT		
2> DECREMENT		
Value: 512		
		EXIT <8
.....		

WRAP 1 PLANT OPERATING PROCEDURE

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F. SET JAW OPERATING CHARACTERISTICS (Cont.)

NOTE - Jaw speed is incremented in arbitrary units (counts), ranging from 128 to 2048. Higher count setting equals faster jaw closure. Each switch press changes setting by 128.

g. PRESS "1> INCREMENT" OR "2> DECREMENT", until desired setting is displayed.

h. PRESS "8> EXIT" (to MAIN menu).

2. Set Jaw Offset Values

NOTE - Jaw offset compensates for differences in servo valves to prevent jaws from drifting from a command position during operation. Once set it should not need to be changed, unless servo valve is replaced.

a. PRESS "5> SETUP", from MAIN menu.

b. VERIFY SETUP menu displayed.

SETUP		LOCK: LOCK
-----	>right>	-----
1> SET LIMITS		SET JAW SPEED
2> SET STOW		<5
3> DISPLAY		
4> SET JAW OFFSET		EXIT <8
-----		-----

c. PRESS "4> SET JAW OFFSET".

WRAP 1 PLANT OPERATING PROCEDURE

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- d. VERIFY SET JAW OFFSET menu displayed.

SET JAW OFFSET	LOCK: FRZ
-----	>right> -----
1> INCREMENT	
2> DECREMENT	
Value: 0	
	EXIT <8

WRAP 1 PLANT OPERATING PROCEDURE

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F. SET JAW OPERATING CHARACTERISTICS (Cont.)

NOTE - Jaw offset is incremented in arbitrary units (counts), ranging from -512 to +512. Each switch press changes setting by 32.

- e. PRESS "1> INCREMENT" OR "2> DECREMENT", until desired setting is displayed.
- f. PRESS "8> EXIT" (to OPERATE menu).
- g. RESUME normal operation.

G. SET DISPLAY ATTRIBUTES

NOTE - Allows for change of screen viewing angle and/or reversing dark and light portions of the screen.

- 1. PRESS "5> SETUP", from MAIN menu.
- 2. VERIFY SETUP menu displayed.

SETUP	LOCK: LOCK
----->right>-----	
1> SET LIMITS	SET JAW SPEED
	<5
2> SET STOW	
3> DISPLAY	
4> SET JAW OFFSET	EXIT <8

- 3. PRESS "3> DISPLAY".
- 4. VERIFY DISPLAY menu displayed.

DISPLAY	LOCK: LOCK
----->right>-----	
1> View Angle - UP	Save to Default <5
2> View Angle - DOWN	
3> Invert background	
4> Default	EXIT <8

WRAP 1 PLANT OPERATING PROCEDURE

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G. SET DISPLAY ATTRIBUTES (Cont.)

- PRESS function key(s) (TABLE 8), for desired screen attributes.

TABLE 8 - SCREEN ATTRIBUTES	
FUNCTION	SCREEN EFFECT
1> VIEW ANGLE-UP	Repeated pressing rotates viewing angle up to desired position.
2> VIEW ANGLE-DOWN	Repeated pressing rotates viewing angle down to desired position.
3> INVERT BACKGROUND	Reverses (toggle) screen contrast.
4> DEFAULT	Revert to startup screen configuration.
5> SAVE TO DEFAULT	save current screen attributes to default.

- PRESS "8> EXIT" (to MAIN menu).

H. SYSTEM SHUTDOWN

CAUTION

SHUTTING DOWN MANIPULATOR WILL CAUSE SLAVE ARMS TO SAG UNTIL MECHANICAL STOPS ARE REACHED. HYDRAULIC OR CONTROL POWER SHOULD NOT BE TURNED OFF UNTIL ARMS ARE POSITIONED IN GLOVEBOX SO THEY WILL NOT HARM, OR BE HARMED BY OTHER OBJECTS WHEN THEY SAG.

- PRESS "7> SHUTDOWN" from MAIN menu.
- VERIFY SHUTDOWN menu displayed.

SHUTDOWN		FRZ: FRZ
1> Stow Out	<left> >right>	Stow Out <5
2> Stow In		Stow In <6
3> Stop Pnt: IN		Pnt: IN Stop <7
4> All hyd- >OFF		EXIT <8

After stow, turn off hydraulics.		

- MOVE each slave arm to a position near its STOW OUT point.
- PRESS "2> STOW IN" (left slave arm).

WRAP 1 PLANT OPERATING PROCEDURE

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H. SYSTEM SHUTDOWN (Cont.)

5. VERIFY left slave arm STOWS IN.
6. PRESS "5> STOW IN" (right slave arm).
7. VERIFY right slave arm STOWS IN.
8. PRESS "4> ALL HYDR OFF".
9. TURN master control power switch OFF.
10. PUSH EMERGENCY STOP button on either side of carriage controller IN.
11. IF manipulator is to be electrically isolated,
THEN, SET disconnect switch on C&I enclosure to ZERO.
12. IF HPU is to be SHUT DOWN,
THEN:
 - a. REPEAT Steps VII.H.1 through VII.H.11 for each manipulator.

CAUTION

ALL MANIPULATORS MUST BE NEAR STOW OUT POINT BEFORE SHUTTING OFF HPU.
SHUTTING OFF HPU WILL DISABLE ALL MANIPULATORS.

*NOTE - HPU 107-HU-07-302 is common to all manipulators.
Another Start/Stop switch is located on the HPU
Control Panel at HPU on overhead walkway.*

- b. PRESS "STOP" button on "I" beam behind Glovebox 102.

WRAP 1 PLANT OPERATING PROCEDURE

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I. EMERGENCY SHUTDOWN

NOTE - Emergency Stop immediately shuts down manipulator by turning off all manipulator components that receive power from C&I enclosure (master controller, carriage controller, slave controllers, slave arms, and horiz and vertical carriages).

Hydraulic power unit (HPU) remains ON but hydraulically powered manipulator components cannot be used without electrical power as hydraulic control valves are disabled.

CAUTION

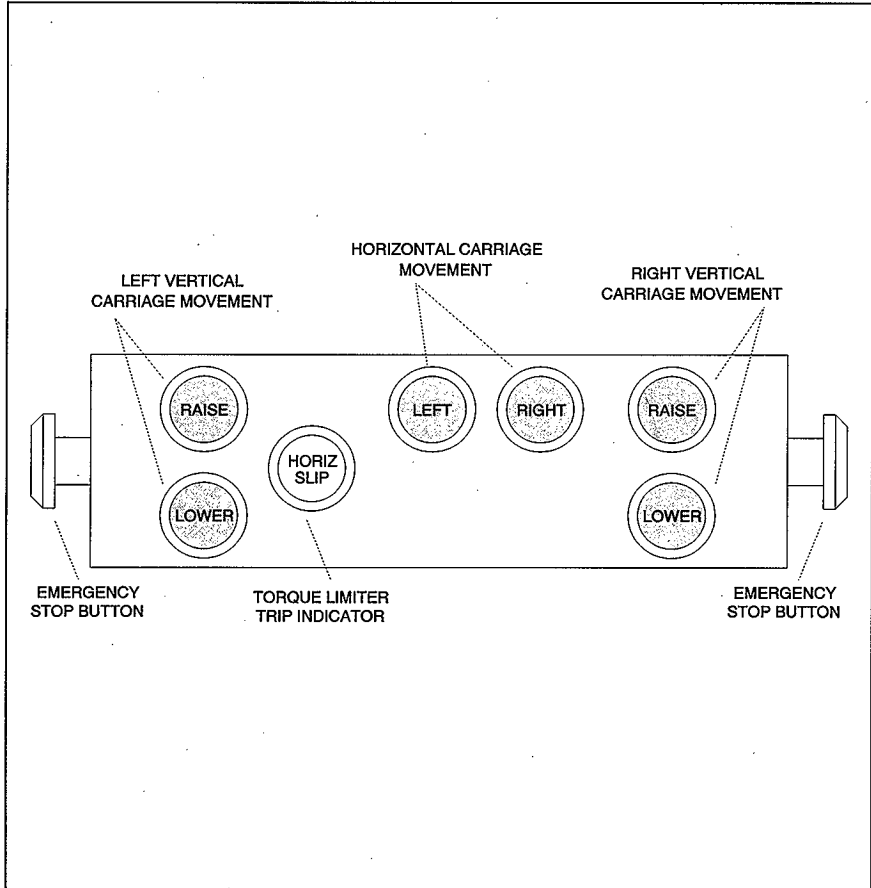
SHUTTING DOWN MANIPULATOR WILL CAUSE SLAVE ARMS TO SAG UNTIL MECHANICAL STOPS ARE REACHED. HYDRAULIC OR CONTROL POWER SHOULD NOT BE TURNED OFF UNTIL ARMS ARE POSITIONED IN GLOVEBOX SO THEY WILL NOT HARM, OR BE HARMED BY OTHER OBJECTS WHEN THEY SAG.

1. PUSH EMERGENCY STOP button on either side of carriage controller IN.

WRAP 1 PLANT OPERATING PROCEDURE

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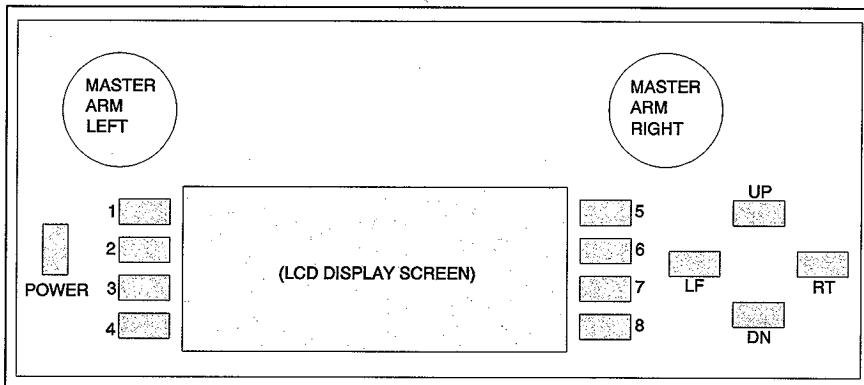
FIGURE 1 - CARRIAGE CONTROLLER



WRAP 1 PLANT OPERATING PROCEDURE

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FIGURE 2 - MASTER CONTROL PANEL

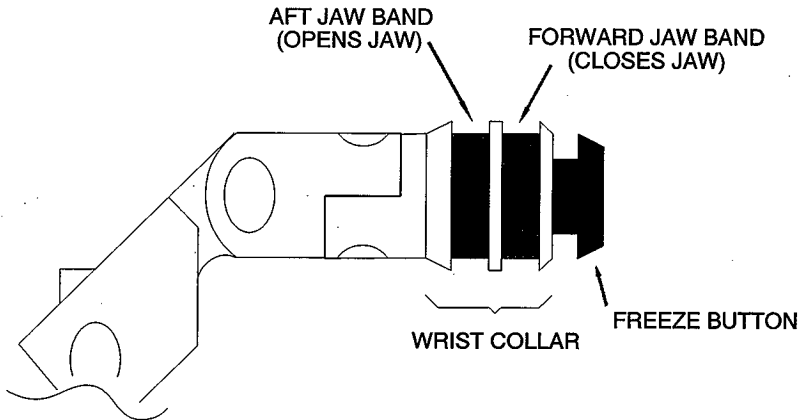


MANIPULATOR EQUIPMENT NUMBERS	
MANIPULATOR LOCATION	MANIPULATOR EQUIPMENT NUMBER
LLW SORTING GLOVEBOX	107-EM-07-101
LLW RWM GLOVEBOX	107-EM-07-201
TRU SORTING GLOVEBOX	107-EM-07-301
TRU RWM GLOVEBOX	107-EM-07-401
NOTE: Hydraulic Power Unit 107-HU-07-302 supplies all manipulators.	

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

FIGURE 3 - MASTER ARM



WRAP 1 PLANT OPERATING PROCEDURE

SYSTEM: PROCESS

BAGLESS TRANSFER SYSTEM MANUAL OPERATION

(HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

NOTE - The bagless transfer system may also be referred to as the Drath & Schrader system in some plant documentation.

This procedure provides instructions for manual operation of the Deutsche Babcock, Bagless Transfer System (200/300 liter Drum Loading Ports).

The drum loading port is normally operated in automatic mode. However, if automatic operation is interrupted (inadvertently or otherwise), it may be necessary to enter manual mode to perform drum transfers or to return unit to proper sequencing. The drum loading port should be operated in manual only if absolutely necessary because the PLC ignores all limit switch signals. Major equipment damage is possible if improper operating sequence is used.

II. REFERENCE DOCUMENTS

None.

III. PRESTART CONDITIONS

All personnel performing this procedure shall be qualified in accordance with Waste Management Hanford Procedures Manual, Section 5.1, "Training and Qualification," and on-the-job training.

Verify daily radiological dose rates and contamination level for gloves have been established by Radiological Control.

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IV. SAFETY

All potential hazards, such as lifting heavy containers or handling sharp objects present in waste containers, must be mitigated by protective equipment, procedures, and administrative controls to ensure acceptable-risk operating conditions.

All shall be performed per applicable Radiation Work Permits (RWPs).

Failure to follow proper port sequencing as described in this procedure may result in contamination of drum port and surrounding area.

V. TOOLS AND SUPPLIES

None.

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WRAP 1 PLANT OPERATING PROCEDURE

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VII. PROCEDURE

CAUTION

THE DRUM LOADING PORT SHOULD BE OPERATED IN MANUAL, ONLY IF ABSOLUTELY NECESSARY, BECAUSE THE PLC IGNORES ALL LIMIT SWITCH SIGNALS. MAJOR EQUIPMENT DAMAGE OR CONTAMINATION IS POSSIBLE IF IMPROPER OPERATING SEQUENCE IS USED.

A. GENERAL REQUIREMENTS

1. Once placed in Manual Mode per Section VII.B of this procedure, other sections of this procedure may be performed repeatedly and in any order necessary to facilitate work. However STEPS within each section MUST BE PERFORMED IN SEQUENCE.

WARNING

WORK THROUGH GLOVEPORTS MAY INVOLVE PLACING HANDS IN CLOSE PROXIMITY TO MOVING EQUIPMENT. CARE MUST BE TAKEN TO PREVENT INJURY.

2. IF at any time during performance of this procedure, work is to be performed through gloveports, THEN:
 - a. CHECK status and location of moving equipment in proximity of gloveport(s) to be used.
 - b. TAKE action, including any of the following, as deemed necessary to prevent injury:
 - AVOID equipment when reaching through port(s)
 - PRESS glovebox E-Stop to stop glovebox equipment
 - CONSULT DOS when unsure
 - c. PERFORM a contamination survey of hands, arms and front of body upon exiting glove:
 - (1) IF contamination is detected, THEN, CONTACT Radiological Control Technician.

WRAP 1 PLANT OPERATING PROCEDURE

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B. ENTER MANUAL MODE

1. OBTAIN Duty Operations Supervisor (DOS) permission to enter MANUAL mode.
2. VERIFY the following equipment is positioned so as not to interfere with port operation:
3. VERIFY manipulator will not interfere with port operation.
4. VERIFY other equipment will not interfere with port operation.
5. ACCESS, on operator panel keyboard (Attachment 1), MANUAL mode, as follows:
 - a. PRESS STOP button (not EMERGENCY STOP).
 - b. VERIFY K5 key pilot light ILLUMINATED.
 - c. PRESS K5 key.
 - d. VERIFY MAIN menu displayed.

DRUM PORT		
-PRESS BUTTON-		
AUTO	MANU	OP. MODE
K2	K3	K4

- e. PRESS K3 key.
- f. VERIFY display.

MANUAL SERVICE
BE CAREFUL
K5=ESC
CONTINUE PRESS F8

WRAP 1 PLANT OPERATING PROCEDURE

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(Step VII.B.5 Cont.)

- g. PRESS F8 key.
- h. VERIFY display.

NOTE - *Pressing ESC key at this point will cancel entry to manual.*

PASSWORD*****

(DOS)

- i. KEY IN password.
- j. PRESS ENTER key.
- k. PRESS ESC key.
- l. PRESS F8 key.
- m. VERIFY display.

01 MANU. SERVICE
LID GRIPPER
HOLD RELEASE
K13 K14

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

C. DETERMINE PORT STATUS

1. DETERMINE port status as follows:

- a. PRESS UP/DOWN arrow keys, as required, to select each function listed in Table 1.

NOTE - Either K13 or K14 will be STEADY ON, while the other will be FLASHING. Option listed above FLASHING indicator is present position/status of selected function.

- b. OBSERVE K13 / K14 key at each function to determine position of corresponding actuator.

TABLE 1	
FUNCTION	DISPLAY MESSAGE
GRIP LID	01 MANU: Service LID GRIPPER Hold Release K13 K14
LIFT/LOWER DOUBLE LID VERTICALLY	02 MANU: SERVICE DOUBLE LID VERTC Down Up K13 K14
UNLOCK/LOCK DOUBLE LID	03 MANU: Service DOUBLE LID LOCK Close Open K13 K14
OPEN/CLOSE (swivel) DOUBLE LID SYSTEM	04 MANU: Service DOUBLE LID SYSTEM Close Open K13 K14

WRAP 1 PLANT OPERATING PROCEDURE

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D. MANUAL OPERATION

CAUTION

FAILURE TO FOLLOW PROPER SEQUENCE MAY RESULT IN MAJOR EQUIPMENT DAMAGE OR CONTAMINATION OF EQUIPMENT AND SURROUNDING AREA.

1. VERIFY port travel path clear of obstructions.
2. VERIFY port closed and locked as per port close sequence below.
3. VERIFY Lid Gripper in "Release" position.
4. ENSURE drum properly positioned under port.
5. OPEN port as follows:
 - a. GRIP lid:

- (1) IF the following LID GRIPPER menu with title is displayed,
THEN, PRESS DOWN arrow key to display LID GRIPPER Menu without title.

	Manual Service
01	MANU: Service
	LID GRIPPER
	Hold Release
	K13 K14

- (2) PRESS UP/DOWN arrow keys, as required, to access LID GRIPPER menu:

	MANU: Service
01	LID GRIPPER
	Hold Release
	K13 K14

- (3) PRESS K13 key.
- (4) VERIFY K13 FLASHING, K14 STEADY ON.

WRAP 1 PLANT OPERATING PROCEDURE

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(Step VII.D.5 Cont.)

b. LIFT double lid:

- (1) PRESS DOWN arrow key.
- (2) VERIFY DOUBLE LID VERTC menu displayed.

02	MANU: Service
	DOUBLE LID VERTC
	Down Up
	K13 K14

- (3) PRESS K14 key.
- (4) VERIFY K14 FLASHING, K13 STEADY ON.
- (5) VERIFY lid retained against raised port door.

c. OPEN double lid lock:

- (1) PRESS DOWN arrow key.
- (2) VERIFY DOUBLE LID LOCK menu displayed.

03	MANU: Service
	DOUBLE LID LOCK
	Close Open
	K13 K14

- (3) PRESS K14 key.
- (4) VERIFY K14 FLASHING, K13 STEADY ON.

WRAP 1 PLANT OPERATING PROCEDURE

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(Step VII.D.5 Cont.)

NOTE - Upon completion of the following step, port will be rotated open and drum completely exposed to glovebox.

d. OPEN double lid system:

- (1) PRESS DOWN arrow key.
- (2) VERIFY DOUBLE LID SYSTEM menu displayed.

04	MANU: Service
	DOUBLE LID SYSTEM
	Close Open
	K13 K14

- (3) PRESS and HOLD K14 key.

NOTE - K14 key must be held until door reaches full OPEN position.

- (4) VERIFY K14 FLASHING, K13 STEADY ON.
- (5) RELEASE K14 key.

6. CLOSE port as follows:

- a. VERIFY no debris present on port.
- b. CLOSE double lid system:

- (1) PRESS UP/DOWN arrow keys, as required, to access DOUBLE LID SYSTEM menu.

04	MANU: Service
	DOUBLE LID SYSTEM
	Close Open
	K13 K14

NOTE - Key must be held until door is full CLOSED.

- (2) PRESS and HOLD K13 key.
- (3) VERIFY K13 FLASHING, K14 STEADY ON.
- (4) RELEASE K13 key.

WRAP 1 PLANT OPERATING PROCEDURE

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(Step VII.D.6 Cont.)

c. CLOSE double lid lock:

- (1) PRESS UP arrow key.
- (2) VERIFY DOUBLE LID LOCK menu displayed.

03	MANU: Service
	DOUBLE LID LOCK
	Close Open
	K13 K14

- (3) PRESS K13 key.
- (4) VERIFY K13 FLASHING, K14 STEADY ON.

d. LOWER double lid:

- (1) PRESS UP arrow key.
- (2) VERIFY DOUBLE LID VERTC menu displayed.

02	MANU: Service
	DOUBLE LID VERTC
	Down Up
	K13 K14

- (3) PRESS K13 key.
- (4) VERIFY K13 FLASHING, K14 STEADY ON.

e. RELEASE lid:

- (1) PRESS UP arrow key.
- (2) VERIFY LID GRIPPER menu displayed.

01	MANU: Service
	LID GRIPPER
	Hold Release
	K13 K14

- (3) PRESS K14 key.
- (4) VERIFY K14 FLASHING, K13 STEADY ON.

WRAP 1 PLANT OPERATING PROCEDURE

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7. WHEN desired,
THEN, RETURN to automatic operation as follows:
- ENSURE port CLOSED per Step VII.D.6.
 - REQUEST RCT survey the closed port and immediate area to verify no contamination.
 - PRESS K5 key.
 - VERIFY MAIN menu displayed.

DRUM PORT		
-Press button-		
Auto	Manu	Op. mode
K2	K3	K4

- PRESS K2 key.
- PRESS "START" when prompted by menu screen.

NOTE - *Port will not go into Automatic with low regulator pressure or with EMERGENCY STOP depressed.*

8. IF AUTOMATIC mode cannot be accessed,
THEN:
- VERIFY regulator for port being operated is adjusted to greater than six (6) bar.
 - VERIFY glovebox emergency stops CLEARED.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

E. FAULT RECOVERY OPERATION

NOTE - A typical fault may involve an emergency stop, a loss of power, or loss of air pressure, stopping the port during the OPENING/CLOSING sequence. In MANUAL, the operator determines where in the sequence the port stopped, manually operates the actuators to restore sequence, then CLOSES the port and returns to AUTOMATIC mode.

1. DETERMINE port status per Section VII.C.
2. EVALUATE port for fault condition relative to proper OPENING/CLOSING sequence per Tables 2 and 3.

NOTE - Manual operating sequence must follow automatic sequences shown in Tables 2 and 3 (sequences assume design drum properly positioned).

TABLE 2 - OPENING SEQUENCE	
SEQUENCE	FUNCTION
1	LID GRIPPER - HOLD
2	DOUBLE LID VERTC - UP
3	DOUBLE LID LOCK - OPEN
4	DOUBLE LID SYSTEM - OPEN

TABLE 3 - CLOSING SEQUENCE	
SEQUENCE	FUNCTION
1	DOUBLE LID SYSTEM - CLOSE
2	DOUBLE LID LOCK - CLOSE
3	DOUBLE LID VERTC - DOWN
4	LID GRIPPER - RELEASE

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

3. DETERMINE, based on observations, corrections required to return port to normal sequencing.
 - a. IF in doubt as to proper corrective actions,
THEN:
 - (1) STOP work immediately.
 - (2) CONTACT DOS and COG Engineer for assistance.
 4. CORRECT port sequencing fault using Section VII.D, as follows:
 - a. PRESS UP/DOWN arrow key, as applicable, to select desired function.
 - b. PRESS K13 / K14 key as applicable; to return corresponding actuator to proper position.
 - c. REPEAT Steps VII.E.4.a and VII.E.4.b, as required, to properly position each port actuator.
- NOTE - Once port sequence has been interrupted, the port must be completely CLOSED before it can be returned to automatic.*
5. WHEN port has been returned to correct sequencing,
THEN:
 - a. DETERMINE port condition relative to CLOSING sequence per Step VII.D.6. AND continue sequence to full CLOSED position.
 - b. RETURN to automatic mode per Step VII.D.7.

WRAP 1 PLANT OPERATING PROCEDURE

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F. FAULT ACKNOWLEDGEMENT SEQUENCE

NOTE 1 - All faults must be acknowledged and cleared before operation can commence.

NOTE 2 - An unacknowledged fault exists when either the "ACK" button is illuminated, or the Control Panel screen is flashing.

1. READ Fault message.
2. RECORD Fault message.
3. PRESS "ACK" button.
4. IF "ACK" button pilot light is ILLUMINATED,
AND screen is flashing,
THEN, REPEAT steps VII.F.1 through VII.F.3.
5. VERIFY "ACK" button pilot light is OFF.

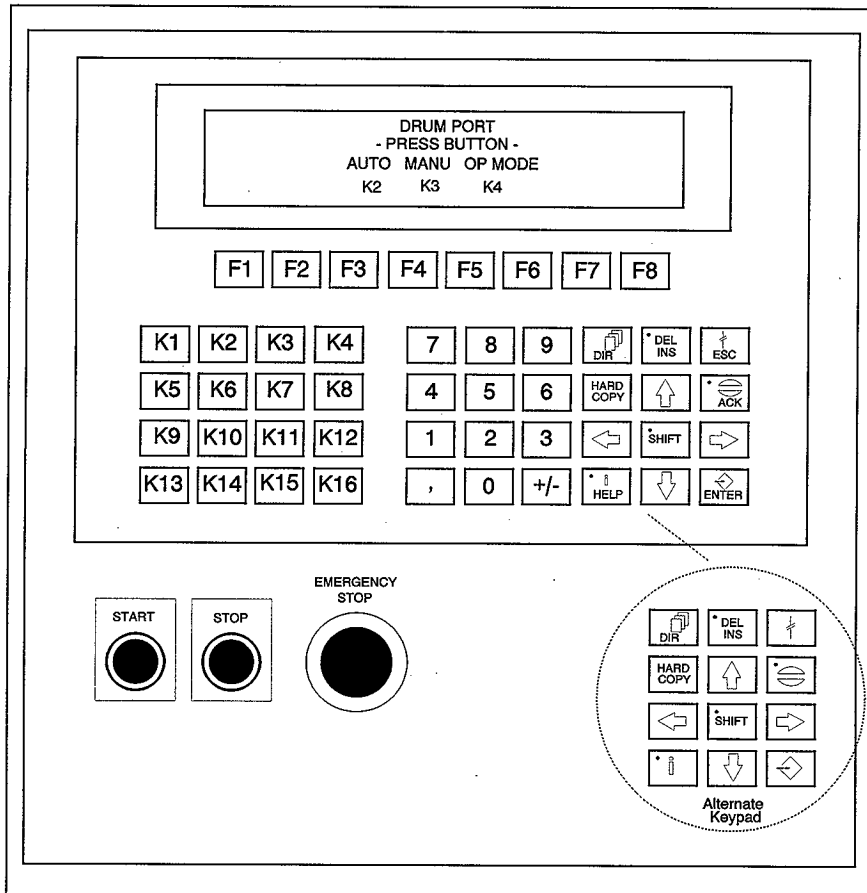
G. RESET PORT CONTROL PANEL EMERGENCY STOP

1. TWIST EMERGENCY STOP button CLOCKWISE.
2. ACKNOWLEDGE all faults.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

ATTACHMENT 1 - OPERATOR PANEL



WRAP 1 PLANT OPERATING PROCEDURE

SYSTEM: PROCESS

PACKET NDE OPERATION (HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

This procedure provides instructions for operation of EG&G Corp. TORR II D, X-Ray Inspection System.

X-Ray systems are used for packet non-destructive examination (NDE) in the Low Level Waste (LLW) and Transuranic Waste (TRU) sorting gloveboxes.

II. REFERENCE DOCUMENTS

None.

III. PRESTART CONDITIONS

UPDATE

All personnel performing this procedure shall be qualified in accordance with WHC-CM-5-34, Section 1.8, "Training and Qualification," and on-the-job training.

IV. SAFETY

Radiological

X-ray leakage is certified <0.5 mrem/hr.

System is equipped with door interlock to prevent accidental exposure.

V. TOOLS AND SUPPLIES

X-ray Control Panel Power Key.

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WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

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WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

VII. PROCEDURE

NOTE - Packet X-Ray Control Panel for LLW Sorting Glovebox is 107-ND-07-101. TRM-107-ND-07-301

A. SYSTEM OPERATION

Packet

(107-ND-07-101)

1. INSERT ~~X~~-ray Control Panel key in POWER key switch.
2. TURN POWER key switch ON.
3. SELECT packet to be X-Rayed.
4. SELECT "PACKET X-RAY MENU" on Operator Interface Unit (OIU-12-103B) {OIU-12-104B} MAIN menu (Figures 1 & 2).
5. VERIFY, PACKET X-RAY menu (Figures 3 & 4) displayed.
6. SELECT "OPEN ~~PACKET~~ X-RAY" on PACKET X-RAY menu.
7. VERIFY:

- OIU message: "PACKET X-RAY ^{DOOR} OPENING..."
- Packet X-Ray door OPENS.
- Packet tray ^{DOOR} EXTENDS.
- OIU message: "PACKET X-RAY ^{DOOR} OPEN".

8. PLACE selected packet in center of packet tray.
9. SELECT "CLOSE ~~PACKET~~ X-RAY" on PACKET X-RAY menu.

10. VERIFY:
- OIU message: "PACKET X-RAY CLOSING..."
- Packet tray ^{DOOR} RETRACTS.
- Packet X-Ray door CLOSES.
- OIU message: "PACKET X-RAY ^{DOOR} CLOSED".

11. SELECT "ENABLE PACKET X-RAY" on PACKET X-RAY menu.

NOTE - When packet X-Ray is enabled, all other glovebox actions are locked out.

12. VERIFY, OIU message: "PACKET X-RAY ENABLED".

13. ~~DEPRESS AND HOLD~~ X-Ray footswitch.

14. PRESS "START" button on X-RAY CONTROL PANEL (FIGURE 5).

15. VIEW image on ^{Packet X-Ray} video monitor 107-~~TM-07-331A~~ ^{ND-07-101}.

16. ADJUST "BRIGHTNESS" control on X-RAY CONTROL PANEL (FIGURE 5) as required, for clear picture of packet being X-Rayed.

Turn Brightness control to 20 o'clock position -

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

17. WHEN inspection is complete:

- a. ~~RELEASE X-Ray footswitch.~~
- b. PRESS "STOP" on X-RAY CONTROL PANEL.

18. PRESS "OPEN ~~PACKET~~ X-RAY^{door}" on PACKET X-RAY menu.

19. VERIFY:

- OIU message: "PACKET X-RAY^{door} OPENING..."
- Packet X-Ray door OPENS.
- ~~Packet tray EXTENDS.~~ ^{door}
- OIU message: "PACKET X-RAY^{door} OPEN".

Select "Extend X-ray tray" →

20. REMOVE packet from X-Ray tray.

Select "Retract X-ray tray" →

21. PROCESS packet (compliant or non-compliant) per applicable glovebox sorting procedure.

Select "Close X-Ray Door"

22. REPEAT Steps VII.A.3 through VII.A.21, as applicable, until all non-compliant items have been removed from waste.

NOTE - X-ray will typically be turned on at beginning of shift and turned off at end of shift.

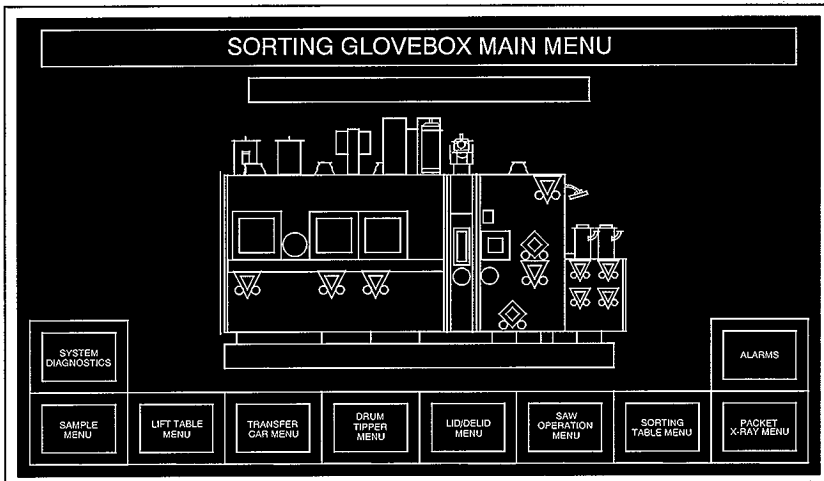
23. IF X-ray activities are complete,
THEN, TURN POWER key switch OFF.

24. REMOVE X-ray Control Panel key.

WRAP 1 PLANT OPERATING PROCEDURE

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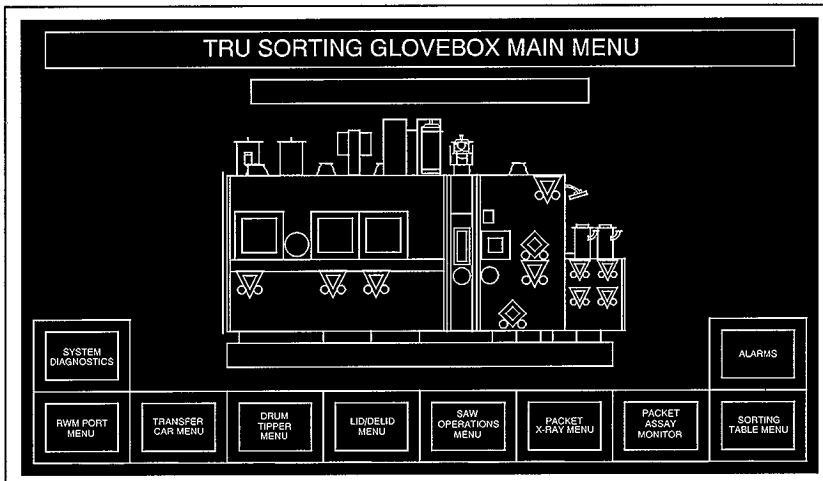
FIGURE 1: LLW, OIU-12-103B MAIN MENU



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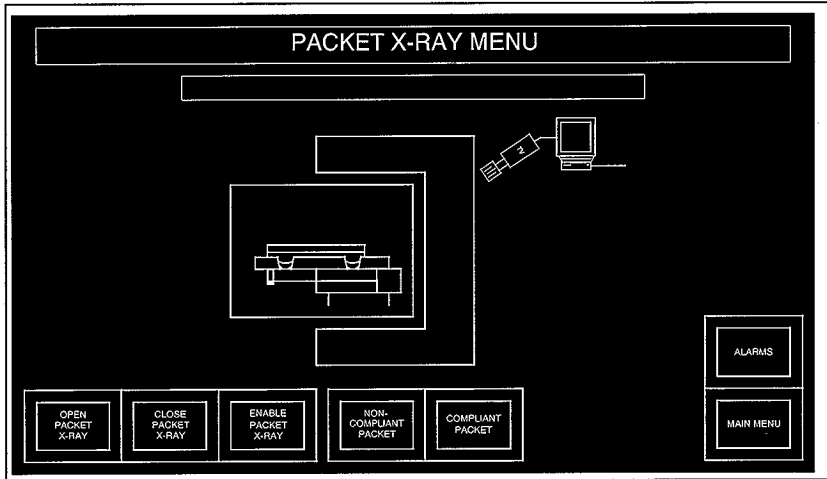
FIGURE 2: TRU, OIU-12-104B MAIN MENU



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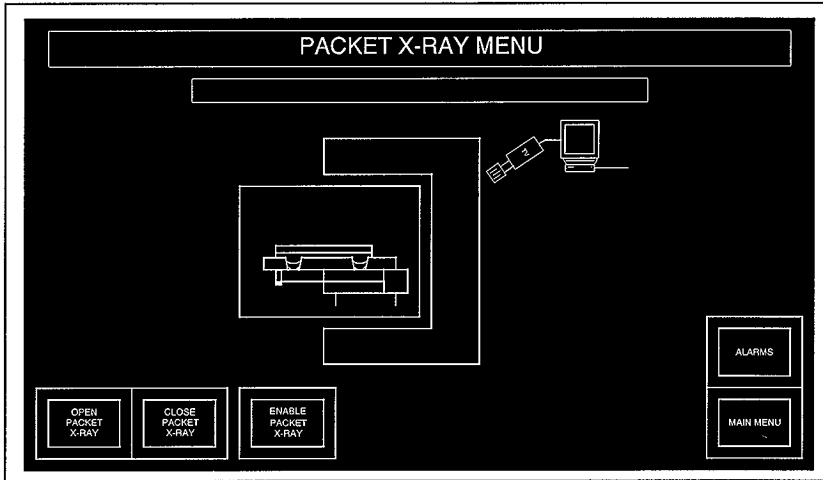
FIGURE 3: LLW, OIU-12-103B PACKET X-RAY MENU



WRAP 1 PLANT OPERATING PROCEDURE

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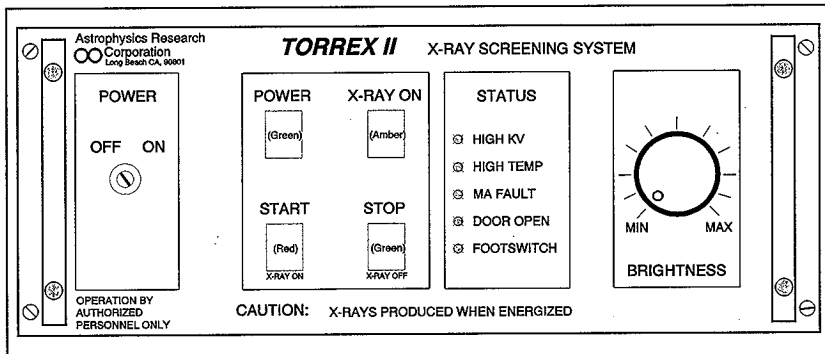
FIGURE 4: TRU, OIU-12-104B PACKET X-RAY MENU



WRAP 1 PLANT OPERATING PROCEDURE

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FIGURE 5: X-RAY ^{PACKET} CONTROLS PANEL (107-ND-07-101)



Control panel switch/indicator functions:

POWER keylock switch	Power OFF/ON switch.
POWER indicator	Green when power ON.
X-RAY ON indicator	Amber when X-Ray ON.
START button/indicator	Enables X-Ray, Red when X-Ray ON.
STOP button/indicator	Stops X-Ray, Green when X-Ray OFF.

Control panel STATUS LEDs:

HIGH KV:	Brightness setting exceeds rating of X-Ray generator. Turns X-Rays OFF. Decrease brightness setting.
HIGH TEMP:	High temperature condition.
MA FAULT:	Brightness too low to sustain required beam current. Turns X-Rays OFF. Increase brightness setting.
DOOR OPEN:	Door OPEN. Turns X-Rays OFF.
FOOTSWITCH:	Footswitch activated.

WRAP 1 PLANT OPERATING PROCEDURE

SYSTEM: PROCESS

GLOVEBOX WASTE SAMPLING

(HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

This procedure defines the approach used to sample WRAP 1 process area glovebox waste. Additional requirements will be provided if it becomes necessary to take RCRA protocol samples.

WRAP Operation's responsibility is to sample for laboratory analysis in accordance with this procedure. Sample data shall be recorded using either the Data Management System, DMS Screen DMSS0501, which is the primary method of recording data, or on Attachment 2, Lab Sample Acquisition which is available as a backup method.

The Sample/Treatment Director shall provide recommendations on the specific method to be used, primarily via DMS Screen DMSS0504. Attachment 1, Laboratory Sample Analysis Request, shall be prepared for each sample as appropriate. The Sample/Treatment Director shall also be responsible for ensuring that the data collected by Operations personnel either in DMS or on Attachment 2, Lab Sample Acquisition, is transferred to the Facility Sample Log as required.

Additionally, this procedure may also be used to collect samples that may undergo field screening within the glovebox prior to sampling for laboratory analysis.

This procedure will also provide guidance for transferring samples and other various items in and out of the gloveboxes through the use of the Sample Transfer Container (STC). This will include mounting and unmounting the container, item transfer, and all associated DMS interface requirements.

II. REFERENCE DOCUMENTS

WHC-CM-5-34, Solid Waste Division Operations Administration

WHC-CM-5-36, SWD Internal Requirements, Chapter 7-5, Environmental Compliance

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III. PRESTART CONDITIONS

All personnel performing this procedure shall be qualified in accordance with Waste Management Hanford Procedures Manual, Section 5.1, "Training and Qualification," and on-the-job training.

IV. SAFETY

Appropriate protective clothing will be worn depending on the sampling activity involved. The clothing required will be identified on the RWP and/or during the pre-job evaluation by the Operations personnel, Operations Management, or Industrial Safety and Hygiene, as appropriate.

Anticipated radiological conditions shall be evaluated prior to starting work through the RWP and ALARA Management Worksheet (AMW), if applicable.

V. TOOLS AND SUPPLIES (As Needed)

Sampling equipment (i.e., glass tube or pipet sampler, scoop, hand auger, etc.)

Sample container(s)

Evidence tape

Tape

Cooler

Plastic sheets

Plastic bags

Camera

Other tools, supplies, or protective clothing as defined by the pre-job evaluation.

Chain of Custody Form (Hard Copy)

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VII. PROCEDURE

NOTE 1 - *Administrative hold steps are identified by initials in parenthesis at the left margin of the procedure step. The direction given in the procedure step must be satisfied before work continues.*

(M) - *Operations management shall approve continued operation.*

(R) - *Radiological Control shall complete surveys or agree to permit continued operation.*

NOTE 2 - *The Sample/Treatment Director has the authority to decide whether any given quantity of waste should be Field Screened or Sampled.*

A. FIELD SCREENING IN RWM GLOVEBOXES

NOTE 1 - *A supply of bottles, dishes, and other supplies to be used in field screening will be kept in, or loaded into the RWM Glovebox as needed.*

NOTE 2 - *DMS Screen DMSS0508 (Sample Labels) is accessed from Screen DMSS0504 (Laboratory Sample Analysis Request) which can be accessed from DMSS0503 (Field Screening).*

NOTE 3 - *DMS records the sample/packet relationship.*

NOTE 4 - *This Section is used when material from a packet or collection container located at an RWM Glovebox sorting location requires field screening.*

1. VERIFY that all Prestart Conditions have been satisfied.

2. DISPLAY screen DMSS0503, Field Screening, by selecting the "Field Screening" button on the RWM Waste Repackaging DMS Screen (DMSS0322 for LLW RWM and DMSS0342 for TRU RWM).

NOTE - *Screen DMSS0503 displays a list of all packets and collection containers located at the RWM Sorting Location.*

3. SELECT PIN of item to be sampled from the list.

4. SELECT "Next Sample".

NOTE - *DMS, at this point assigns a Screening ID.*

5. CONDUCT field screening in accordance with the information provided on DMS Screen DMSS0503 and any additional guidance provided by the Sample Treatment Director.

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A. FIELD SCREENING IN RWM GLOVEBOXES (Cont.)

6. ENTER results of field screening on screen DMSS0503, including the following parameters as a minimum:
 - Sampling Method
 - Volume Taken (ml)
 - Comments
 - Analysis performed
 - Results
 - Units
7. ENTER a signature password and commit the data.
8. IF Sample/Treatment Director determines a sample is required based on results of the field screening,
THEN Sampling/Treatment Director shall perform the following:
 - a. PREPARE a sample analysis request using screen DMSS0504, Laboratory Sample Analysis Request, or Attachment 1, Laboratory Sample Analysis Request.
 - b. PRINT (in Sample Management Office) the sample bottle labels using screen DMSS0508, Sample Bottle Labels.
9. IF another screening sample is required,
THEN SELECT NEXT SAMPLE button on DMSS0503 screen to re-display list of packets and collection containers at the RWM sampling location.
10. IF no other screening sample is required,
THEN return to screen DMSS0322 or DMSS0342.
11. WHEN field screening analyses are complete,
PACKAGE field screened material with the original material if possible.

NOTE: If it is necessary to package a sample separately, a new packet will be created and labeled.
12. IF sample cannot be combined with original material,
THEN perform the following:
 - a. SCAN LOCATION barcode.
 - b. SCAN original packet barcode.
 - c. LABEL new packet.
 - d. SCAN new packet(s) barcode.
 - e. SCAN END barcode.
 - f. SCAN YES barcode.
 - g. ENTER descriptions of new packets on DMSS0322 or DMSS0342 Screen.

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B. PREPARING TO SAMPLE

WARNING

APPROPRIATE EYE, HAND, AND PROTECTION CLOTHING AS SPECIFIED BY THE RWP, JHA OR PRE-JOB EVALUATION SHALL BE WORN DURING SAMPLING.

NOTE 1 - The appropriate methods for sample collection, required volumes, and sample containers are determined prior to sampling and recorded in DMS or on Attachment 1, Laboratory Sample Analysis Request. Sampling is performed on the following waste matrices:

- *Sludges*
- *Soils, sand, silt, other particulates*
- *Free liquids*
- *Sorbents (stained or saturated only).*

Other matrices can be sampled if they fall under matrices identified in SW-846, specific sampling and analysis plan, waste analysis plan, or work package.

If discrepant articles or conditions are encountered that cannot be identified and resolved with resources available, contact the Operations Management for assistance.

NOTE 2 - Sampling documentation (including photographs) is collected throughout the sampling activity, as appropriate.

1. ENSURE Sample/Treatment Director has performed one of the following:
 - PREPARE Attachment 1, Laboratory Sample Analysis Request.
 - UPDATE DMS Screen DMSS0504 Laboratory Sample Analysis Request.
2. OBTAIN appropriate sampling equipment, sample container(s), camera, etc.

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B. PREPARING TO SAMPLE (Cont.)

CAUTION

SAMPLE CONTAINERS MAY NOT BE OPENED PRIOR TO THEIR INTENDED USE. DOING SO MAY NEGATE THE PEDIGREE OF THE CONTAINER. DO NOT USE PREVIOUSLY OPENED CONTAINERS FOR RCRA PROTOCOL SAMPLING ACTIVITIES.

3. ENSURE empty sample containers have been maintained in a compliant manner as follows:
 - Kept under lock and key (e.g., locked storage cabinet, locked storeroom, etc.), with limited access. A custodian and alternate(s) shall be designated by Operations.
 - The outside of each case must be legibly initialed and dated by the individual opening that case. Pedigree papers for each case should be checked against the contents and any anomalies noted at that time in the logbook. Pedigree papers are kept on file.
4. ENSURE the following information is recorded in the Empty Sample Container Logbook for each sample container:
 - Custodian of container(s) being removed from secured area
 - Date removed
 - Lot number
 - Container ID number
 - Size and Type
 - Sampling location
 - Used/Not used
 - Comments (as required)
5. PRINT sample bottle barcode labels using screen DMSS0508.
6. LABEL empty sample bottle(s) with barcode label(s).

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C. LOAD EMPTY SAMPLE BOTTLES INTO GLOVEBOX

1. ENSURE sample bottle is properly labeled.
2. OPEN door on Consumable Materials Port.
3. INSERT a properly sized bottle into the Consumable Materials Port, pushing the bottle already in the Port all the way through to the interior of the glovebox.
4. INSERT another properly sized bottle into the Consumable Materials Port, pushing desired sample bottle(s) into the interior of the glovebox.

D. STC OPERATIONS

a. Attach STC to Glovebox

- (1) REMOVE STC from transfer pig (if applicable).
- (2) ENSURE port door is CLOSED and LOCKED:
 - (a) Door latch CLOSED (down).
 - (b) Port door latch locking pin dropped into locking hole.

NOTE - *During rotation, the STC is locked and sealed to the port flange, and the STC cover is unlocked from the STC and locked and sealed to the cell port.*

- (3) MATE STC flange to cell flange, with locking bayonets aligned to cell flange openings and ROTATE STC clockwise, 30°.
- (4) ENSURE STC fully engages port as follows:
 - (a) Visually CHECK mounting flanges are fully engaged.
 - (b) TIGHTEN STC with STC Tool as necessary.
- (5) PERFORM a contamination survey of Port area.

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- (6) SCAN STC to glovebox location with the appropriate portable scanner as follows (reference Table 1):

- (a) LOCATION barcode on glovebox wall.
- (b) STC barcode.
- (c) END barcode on glovebox wall.
- (d) YES barcode on glovebox wall.

Table 1

GLOVEBOX	PORTABLE SCANNER I.D.	LOCATION
TRU SORTING	12-NE-300	TRU_PP
TRU RWM	12-NE-303	TRURW_PP
LLW SORTING	12-NE-310	LLW_PP
LLW RWM	12-NE-313	LLWRW_PP

- (7) VERIFY Operator Interface Unit (OIU) display on *01A 142B*
Sample Menu, "Purge Port Canister Present".

b. Open STC

NOTE - This section assumes STC is properly mated to the
Glovebox per Section VII.D..a.

- (1) PULL port door latch locking pin and TURN counter-clockwise, 30°.
- (2) MOVE port door latch to OPEN (UP).
- (3) OPEN port door.

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D. STC OPERATIONS (Cont.)

c. Unload STC

- (1) INSPECT glovebox sampling area for objects or conditions that could puncture, rip, cut, or could otherwise injure or harm sampling personnel.
- (2) REQUEST Radiological Control (RC) coverage to the extent indicated on Attachment 1, Laboratory Sample Analysis Request.
- (3) UNLOAD sample container, or applicable item, into the glovebox, using gloves.
 - (a) IF sample containers needing treatment are being unloaded,
THEN REFER to WRP1-OP-0717, LLW/RWM GLOVEBOX OPERATION, Section titled, "REMOVE SAMPLE BOTTLES FROM STC FOR TREATMENT".

d. Load Sample in STC

- (1) SELECT "Loadout Samples" on OIU.
- (2) SCAN barcodes as follows (reference Table 2):
 - (a) LOCATION barcode on glovebox wall.
 - (b) Sample Bottle PIN barcode.
 - (c) END barcode on glovebox wall.
 - (d) YES barcode on glovebox wall.

Table 2

GLOVEBOX	PORTABLE SCANNER I.D.	LOCATION
TRU SORTING	12-NE-300	TRU_PP
TRU RWM	12-NE-303	TRURW_PP
LLW SORTING	12-NE-310	LLW_PP
LLW RWM	12-NE-313	LLWRW_PP

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E. SAMPLING LIQUIDS

NOTE 1 - Liquids may be sampled using several methods - pipet, glass tube, etc. The determination of which method and sample containers to use is made prior to sampling and is defined on Attachment 2, Laboratory Sample Analysis Request OR in the DMS.

NOTE 2 - The sample container should be placed over the waste container to minimize potential contamination spread as much as practical.

1. SCAN barcodes as follows (reference Table 3):
 - a. LOCATION barcode on glovebox wall.
 - b. Sample Bottle PIN barcode.
 - c. IF sampling in an RWM Glovebox,
THEN SCAN packet or collection container being sampled.
 - d. END barcode on glovebox wall.
 - e. YES barcode on glovebox wall.

Table 3

GLOVEBOX	PORTABLE SCANNER I.D.	LOCATION
TRU SORTING	12-NE-300	TRU_SORT
TRU RWM	12-NE-303	TRURWSAMPL
LLW SORTING	12-NE-310	LLW_SORT
LLW RWM	12-NE-313	LLWRWSAMPL

2. OBTAIN sampling information from DMS Screen DMSS0501 or from Attachment 2, Lab Sample Acquisition.
3. ENTER Room Temperature, Sample Matrix, and Comments as appropriate per Attachment 2, Lab Sample Acquisition.
4. ENTER Signature Password.
5. SELECT Commit.
6. LOWER designated sampler into the selected waste container and obtain the sample.

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E. SAMPLING LIQUIDS (Cont.)

7. CAREFULLY WITHDRAW waste sample material and ADD required volume to sample container(s), as appropriate:
 - a. IF there are phases,
THEN FILL a sample container(s) for each phase.
 - b. NOTE the order of each phase and NUMBER the vials appropriately, (e.g., 1 of 3, 2 of 3, 3 of 3).
8. SECURE cap on each container(s)
9. SEAL around cap/container with tape.
10. RETURN unused waste sample material to original container.
11. CLOSE and SECURE lid on the waste container that was sampled.
12. GO TO Section VII.G.

F. SAMPLING SEMI-SOLID/SOLID WASTE MATRICES

1. SCAN barcodes as follows (reference Table 4):
 - a. LOCATION barcode on glovebox wall.
 - b. Sample Bottle PIN barcode.
 - c. IF sampling in an RWM Glovebox,
THEN SCAN packet or collection container being sampled.
 - d. END barcode on glovebox wall.
 - e. YES barcode on glovebox wall.

Table 4

GLOVEBOX	PORTABLE SCANNER I.D.	LOCATION
TRU SORTING	12-NE-300	TRU SORT
TRU RWM	12-NE-303	TRURWSAMPL
LLW SORTING	12-NE-310	LLW SORT
LLW RWM	12-NE-313	LLWRWSAMPL

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F. SAMPLING SEMI-SOLID/SOLID WASTE MATRICES (Cont.)

2. OBTAIN sampling information from DMS Screen DMSS0501 or from Attachment 2, Lab Sample Acquisition.
3. ENTER Room Temperature, Sample Matrix, and Comments as appropriate per DMS screen or Attachment 2, Lab Sample Acquisition.
4. ENTER Signature Password.
5. SELECT Commit.
6. DIVIDE waste surface into a sampling grid, as appropriate.

NOTE - *Each distinguishable matrix is sampled using one of the following methods:*

a. Scoop Sampler

NOTE - *This sampling technique should only be used when the material is homogenous throughout the container and a representative sample can be taken from a portion of the container.*

- (1) MIX (thoroughly) the material to be sampled using a scoop or shovel.
THEN SCOOP enough material for a representative sample.
- (2) FILL the sample container(s).
- (3) SECURE cap on each container(s).
- (4) SEAL around cap/container with tape.
- (5) RETURN unused sample material to original waste container, as appropriate.
- (6) CLOSE and SECURE the lid on sampled waste container, as applicable.
- (7) GO TO Section VII.G.

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F. SAMPLING SEMI-SOLID/SOLID WASTE MATRICES (Cont.)

b. Hand Auger Sampler

NOTE - There are a wide variety of hand augers available in varying sizes for different materials. If the material will not stay in the auger, or if the sample hole will not stay open for reentry, an alternate sampling method should be chosen.

- (1) PLACE auger end at selected sampling location.
- (2) AUGER into the sample material.
- (3) WHEN the auger is full of material, THEN REMOVE the auger by PULLING and TURNING counterclockwise. Power equipment may be used as appropriate.
- (4) PLACE a bowl underneath the auger.
- (5) PUSH material from either the top or bottom of the auger into bowl using spoon or other suitable tool.
 - (a) TAP the auger with a hammer or other suitable tool, as needed to encourage material flow.
- (6) REPEAT Steps VII.F.6.b.(1) through VII.F.6.b.(5) above, the appropriate number of times in the same sampling hole to obtain sample material from the entire depth of the matrix.
- (7) IF more than one bowl is needed, THEN SUB-SAMPLE from each bowl into a single composite bowl and MIX thoroughly.
- (8) MIX (thoroughly) the material to be sampled using a scoop or shovel, THEN SCOOP enough material for a representative sample.
- (9) FILL sample container(s).
- (10) SECURE cap on each container(s).
- (11) SEAL around cap/container with tape.
- (12) RETURN unused sample material to original waste container, if appropriate.
- (13) CLOSE and SECURE lid on sampled waste container, as applicable.

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F. SAMPLING SEMI-SOLID/SOLID WASTE MATRICES (Cont.)

- (14) GO TO Section VII.G for instruction on completing sample preparation.

c. Snip and Wipe Method

- (1) IF the solid item being sampled is hard,
THEN WIPE item with an approved filter paper or other media in such a way as to obtain a representative sample of the whole.
- (2) IF the solid item being sampled is soft,
THEN SNIP sections of the soft item with scissors in such a way as to obtain a representative sample of the whole.
- (3) Prepare the sample per instructions obtained from the laboratory that will be performing the analysis and identified on Attachment 1, Laboratory Sample Analysis Request or DMS Screen DMSS0501.
- (4) FILL the container as appropriate.
- (5) SECURE cap on each container(s).
- (6) SEAL around cap/container with tape.
- (7) RETURN unused sample material to original waste container, as appropriate.
- (8) CLOSE and SECURE the lid on sampled waste container, as applicable.
- (9) GO TO Section VII.G for information on completion of sample preparation.

G. FINAL SAMPLE PREPARATION AND LOAD OUT

1. Sample custodian must ENSURE sample containers are sealed with evidence tape and appropriately labeled as follows:
 - Sample number
 - Date and Time
 - Requested analyses
 - Container type
 - Container number(ie. #1 of 4), as appropriate
 - Collector's initials
2. LOAD sample containers into STC for transfer.

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G. FINAL SAMPLE PREPARATION AND LOAD OUT (Cont.)

NOTE - If "LOADOUT SAMPLES" is selected without a STC in place, OIU responds with "NO PURGE PORT PRESENT".

- a. SELECT "LOADOUT SAMPLES" on OIU (reference Table 5).

Table 5

GLOVEBOX	OIU I.D.
TRU SORTING	OIU-12-104B
TRU RWM	OIU-12-106B
LLW SORTING	OIU-12-103B
LLW RWM	OIU-12-105B

- b. VERIFY display "SAMPLE LOADOUT IN PROGRESS" at OIU-12-105B.
- c. SCAN sample container barcode with portable scanner as follows (reference Table 6):
- (1) LOCATION barcode on glovebox wall.
 - (2) Sample Bottle PIN barcode.
 - (3) END barcode on glovebox wall.
 - (4) YES barcode on glovebox wall.

Table 6

GLOVEBOX	PORTABLE SCANNER I.D.	LOCATION
TRU SORTING	12-NE-300	TRU_SORT
TRU RWM	12-NE-303	TRURWSAMPL
LLW SORTING	12-NE-310	LLW_SORT
LLW RWM	12-NE-313	LLWRWSAMPL

- d. LOAD sample container into sample transfer canister.
- e. REPEAT Steps VII.G.2.c and VII.G.2.d for each sample container to be transferred.
- f. ENSURE all sample bottles in the Sample Transfer Canister are displayed on DMSS0501.

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G. FINAL SAMPLE PREPARATION AND LOAD OUT (Cont.)

- g. SELECT "END SAMPLE LOADOUT" on OIU.
 - h. VERIFY display "SAMPLE LOADOUT COMPLETE" at OIU-12-105B.
 3. CLOSE and DETACH STC from the glovebox.
 - a. CLOSE port door.
 - b. MOVE port door latch to CLOSED position (down).
 - c. TURN port door latch locking pin clockwise, 30° and RELEASE.
 - d. ENSURE port door latch locking pin drops into locking hole.

NOTE - During rotation, the STC cover is locked and sealed to the STC.

CAUTION

FAILURE TO SURVEY STC AND CELL FLANGE MAY RESULT IN EQUIPMENT AND/OR PERSONNEL CONTAMINATION.

- e. REQUEST Radiological Control Technician (RCT) coverage for STC removal.
 - f. ROTATE STC counter-clockwise, 60° AND REMOVE from port flange.

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G. FINAL SAMPLE PREPARATION AND LOAD OUT (Cont.)

g. SCAN STC out of glovebox with portable scanner as follows (reference Table 7):

- (1) Location barcode on glovebox wall.
- (2) STC barcode.
- (3) Transport PIG (if used).
- (4) End barcode on glovebox wall.
- (5) Yes barcode on glovebox wall.

Table 7

GLOVEBOX	PORTABLE SCANNER I.D.
TRU SORTING	12-NE-300
TRU RWM	12-NE-303
LLW SORTING	12-NE-310
LLW RWM	12-NE-313

(R)

4. VERIFY OIU displays, "NO PURGE PORT CANISTER PRESENT".
5. REQUEST RCT survey and appropriately release the sealed STC.\
6. IF surface contamination is found,
THEN DECONTAMINATE the container.
7. IF no surface contamination is detected,
THEN PLACE STC in transport PIG or cooler as required.
8. ENSURE COC/SAR information is entered into screen DMSS0502 and the hard copy is transferred with the STC.
9. IF COC for STC is transferred between operations personnel prior to removal from the Process Area,
THEN ENSURE COC/SAR, DMSS502 "Relinquished By" and "Relinquished To" information is entered into screen DMSS0502 OR an updated hard copy is printed.

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G. FINAL SAMPLE PREPARATION AND LOAD OUT (Cont.)

10. TRANSFER STC to Sample Management Area, OR
 - a. SECURE in a locked cabinet until such time that containers will be transported to Sample Management Area.
 - b. RECORD time, date, and person placing the sample into storage in the cabinet log sheet.
11. RELINQUISH sample(s) to the sample custodian
12. ENSURE the COC/SAR "Relinquished By" and the "Relinquished To" information is entered into Screen DMSS0502 and on the hard copy form or an updated hard copy is printed.
13. PLACE STC in appropriate shipping container, cushioned as appropriate.
14. MAKE a copy of the Chain of Custody Form and Laboratory Sample Analysis Request. STORE originals in ZipLoc bag and PLACE in shipping container. DELIVER copies to STD for sample file.
15. SEAL shipping container.
16. MARK and LABEL shipping container as directed by STD.

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H. SAMPLE ACTIVITY LOGBOOKS AND DMS

NOTE - DMS or Attachment 2, Lab Sample Acquisition, shall be used for data collection. The Sample/Treatment Director shall transfer the information to the Sample Logbook, in a timely manner as required for compliant record keeping.

1. Sample/Treatment Director ENSURE and/or RECORD the following information applicable to the samples taken, in the Sample Log book and in the DMS:
 - Container Identification Number (CIN)
 - Manifest Number or other tracking number (e.g., Radioactive Shipping Record)
 - Sampling Location
 - Date
 - Time
 - Volume
 - Container size and type
 - Sampler's name
 - Recorder's signature
 - Physical Characteristics (Color, Texture, Viscosity)
 - Anomalies and prohibited items
 - Description of overall sampling event/Comments
 - Requested Analysis
2. NOTE all discrepancies in COMMENTS section of Sample Log Book.

I. SAMPLING ACTIVITIES PHOTO ALBUM

1. RECORD the following information for each photo taken and ENTER in the Sampling Activities Photo Album:
 - Title of activity
 - Roll number
 - Picture number
 - Negative number
 - CIN of waste container sampled
 - Date taken

J. TRANSPORT SAMPLE

1. ENSURE Radioactive Shipment Record (RSR) is completed and signed by an authorized shipper.
2. TRANSPORT sample in vehicle specified on the RSR.
3. REQUEST RCT SURVEY and RELEASE transport vehicle after delivering sample to laboratory.

(R)

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ATTACHMENT 1 - LABORATORY SAMPLE ANALYSIS REQUEST

NOTE

The data recorded in this attachment corresponds to the data recorded on
DMSS0504 - Laboratory Sample Analysis Request.

Requested by: _____

Date: _____

(Corresponds to Signature Password on DMSS0504)

Drum/Packet PIN: _____

Sample Number: _____

Sample Location: _____

Analyses Selected: (Using codes from Attachment 3, Sample and Treatment Lookup Tables, each selected Laboratory Analysis will be associated with the following predetermined parameters: Description, Preservative, Container Type, No. of Containers, and required volume. Enter codes below for each requested analysis.)

Description of each Analysis: _____

Total number, type, and volume of sample containers required: _____

Preservative required: _____

Special Instructions/Graphics:

Additional sheet(s) attached: ___YES ___NO

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ATTACHMENT 2 - LAB SAMPLE ACQUISITION

NOTE

The data recorded in this attachment corresponds to the data recorded on DMSS0501 - Lab Sample Acquisition.

Requested by:

Date:

(Corresponds to Signature Password on DMSS0501)

Drum/Packet PIN:

Location:

STC PIN:

Room Temperature:

(°C)

Sample Matrix:

(from Attachment 3)

Bottles in STC by Bottle PIN and Analysis Description Code for each from Attachment 3, Sample and Treatment Lookup Tables:

Bottle PIN	Analysis Code	Bottle PIN	Analysis Code
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____

Comments:

Additional sheet(s) attached: ___ YES ___ NO

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ATTACHMENT 3 - SAMPLE AND TREATMENT LOOKUP TABLES

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Laboratory Analysis Table (LABANAL) DMSS0462

*LABANAL_CD VCHAR2(8)	LABANAL_CNTR_COUNT NUMBER(1)	*LABANAL_CNTR_TYP_CD VCHAR2(3)	LABANAL_DESCR VCHAR2(20)	LABANAL_PRESERV VCHAR2(12)	LABANAL_REC'D_VOL NUMBER(4)
AQ.LIQ	1	P	Aqueous Triquid	None	250
OILS	1	P	Oils	None	250
SOLVENTS	1	G	Solvents	None	250
TCLP	1	P	TCLP	None	250
SOLIDS	1	MC	Solids	None	250
COND	1	P	Conductivity	None	250

Sample Container Type (SAMPCONTYP) DMSS0463

*SAMP_CNTR_TYP_CD VCHAR2(3)	SAMP_CNTR_DESCR VCHAR2(30)
P	Polyethylene Bottle
G	Glass
AG	Amber glass
AGS	Amber glass septa
GS	Glass septa
MC	Metal can

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ATTACHMENT 3 - SAMPLE AND TREATMENT LOOKUP TABLES
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Sample Matrix Table (SAMPMATX) DMSS0464	
*SAMPMATX_CD VCHAR2(3)	SAMPMATX_DESCR. VCHAR2(12)
S	Soil
SE	Sediment
SO	Solid
SG	Solid - Gran
SM	Solid - Metal
SS	Solid - Sludge
SL	Sludge
W	Water
O	Oil
A	Air
DS	Drum Solids
DL	Drum Liquids
T	Tissue
WI	Wipe
L	Liquid
X	Other

Sampling Method (SAMPMETH) DMSS0465	
*SAMPLING_METHOD_CD VCHAR2(4)	SAMPLING_METHOD_DESCR VCHAR2(30)
PIPE	Pipet sampler
SCOP	Scoop sampler
TRIR	Trier sampler
AUGR	Hand auger sampler
SNIP	Solid snip sample
SWIP	Swipe sample
CLMS	Colowasa sampler
INS	Insitu

Field Analysis Type Table (FLDANAL TYP) DMSS0459			
*FAT_CD VCHAR2(4)	FAT_DESCR VCHAR2(70)	FAT UNITS VCHAR2(6)	
LEAD	Lead stick test	red/no	
PHDP	pH dip strip	pH	
PHMR	pH meter	pH	
PCBO	CLOR-N-OIL	ppm	
PCBS	CLOR-N-SOIL	ppm	
CLOR	CLOR-D-TECT	ppm	

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WRAP 1 PLANT OPERATING PROCEDURE

SYSTEM: PROCESS

LLW ENTRY GLOVEBOX OPERATION

(HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

This procedure provides instructions for operation of the Low Level Waste (LLW) Entry Glovebox.

II. REFERENCE DOCUMENTS

WRP1-OP-0703, Glovebox Lift Table Operation.

WRP1-OP-0701, Glovebox Housekeeping.

III. PRESTART CONDITIONS

All personnel performing this procedure shall be qualified in accordance with WHC-CM-5-34, Section 1.8, "Training Plan," and on-the-job training.

Process area Heating, Ventilation, Air Conditioning (HVAC) in OPERATION.

IV. SAFETY

Potential hazards, such as lifting heavy containers or handling sharp objects present in waste containers, must be mitigated by protective equipment, procedures, and administrative controls to ensure acceptable-risk operating conditions.

Consult with Operations Management and Industrial Hygiene, and refer to the Job Hazards Analysis (JHA), Radiological Work Permit (RWP) and Material Safety Data Sheets (MSDS) to determine required Personal Protective Equipment (PPE).

This procedure requires accessing gloveboxes through gloveports on a regular basis. Operators shall perform self survey upon exiting gloveport after each use. Radiological Control Technician (RCT) shall be contacted anytime self survey limits are exceeded.

Spills inside the glovebox shall be cleaned up per WRP1-OP-0701, Glovebox Housekeeping.

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IV. SAFETY (Continued)Warning - Use care to prevent injury. Possible safety hazards include:

- Tripping/Slipping
- Injuries to the hands at glovebox ports
- Radiological Contamination
- Interference with the Automatic Guided Vehicle (AGV)

V. TOOLS AND SUPPLIES

None.

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VII. PROCEDURE

NOTE 1 - Administrative hold steps are identified by letters in parentheses at the left margin of the procedure step. The direction given in the procedure step must be satisfied before work continues.

(M) - Operations management shall approve operation.

(R) - Radiological Control (RC) shall complete surveys or agree to permit continued operation.

NOTE 2 - Unless otherwise specified Data Management System (DMS) actions are performed on DMS Terminal (107-TE-12-103).

NOTE 3 - Unless otherwise specified Operator Interface Unit (OIU) actions are performed on LLW Entry Glovebox OIU (OIU-12-103A).

NOTE 4 - All scanning is performed with portable scanner ~~12-NE-310~~ or assigned spare.

A. INITIALIZE SYSTEM

1. VERIFY, visually, position of Drum Transfer Car.
2. IF Drum Transfer Car is not at Transfer Port (107-D0-07-102), THEN:

NOTE - OIU-12-103B is at the LLW Sorting Glovebox.

- a. SELECT on OIU-12-103B (in order):
 - (1) "MAIN MENU" (unless already displayed).
 - (2) "TRANSFER CAR MENU".
 - (3) "ENTRY".
- b. VERIFY OIU displays "TRANSFER CAR MOVING TO ENTRY POSITION...", then displays "TRANSFER CAR AT ENTRY POSITION".

3. ENSURE AUTO/MAINTENANCE keyswitch (107-07-HS-316) on DMS Terminal is in AUTO.

(PCS) When powered up, performs system initialization check and displays results on OIU Main Menu.

4. SELECT OIU-12-103A "MAIN MENU".

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5. SELECT "DIAGNOSTICS MENU".
6. VERIFY display, "DIAGNOSTICS MENU".
7. IF OIU displays "PASS".
THEN, GO TO Section VII.B.
8. IF OIU displays "FAIL"
PERFORM the following:
 - a. NOTIFY Duty Operations Supervisor (DOS).
 - b. PLACE AUTO/MAINTENANCE keyswitch (107-07-HS-316) on DMS Terminal to "MAINTENANCE".
 - c. ENTER MAINTENANCE access password on DMS terminal.
 - d. ACCESS MAINTENANCE MENU screens as necessary to correct indicated initialization faults.
 - e. WHEN all faults have been corrected,
SELECT "MAIN MENU".
 - f. PLACE AUTO/MAINTENANCE keyswitch (107-07-HS-316) on DMS Terminal to "AUTO".

B. DRUM ENTRY TO LLW GLOVEBOX

(M)

1. SCAN location (2Y) bar code on side of Entry Glovebox.
2. SCAN drum (S) bar code.
3. IF scanner displays "PIN MIS-MATCH",
THEN:
 - a. RECORD PIN displayed on barcode scanner on PIN Change Form.
 - b. SCAN Cancellation barcode.
 - c. NOTIFY DOS.
 - d. CORRECT PIN information in PCS.
4. SCAN End (Y) barcode.
5. SCAN Yes barcode.

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6. IF drum is overpacked,
THEN, REMOVE clamp band from overpack 85 gal (322 liter) drum
as follows:

NOTE - *Manual Lift table operation is performed per
WRP1-OP-0703, Glovebox Lift Table Operation.*

- a. LOWER Lift Table as required.
- b. REMOVE clamp band.
- c. RAISE Lift Table to AGV LOAD HEIGHT.
- d. RETURN Lift Table to NORMAL operation.

7. ~~IF drum is overpacked,
THEN, SELECT "OVERPACK ENTRY MENU" on OIU.
OTHERWISE, SELECT "SINGLE DRUM ENTRY MENU" on OIU.~~

(M)

8. IF OIU displays "NO DRUM LOCATED ON LIFT TABLE",
THEN:
 - a. NOTIFY Duty Operations Supervisor (DOS).
 - b. CORRECT drum deficiency as directed.
9. SELECT "START DRUM ENTRY" on OIU.
10. VERIFY OIU displays "DRUM ENTRY IN PROGRESS...".
11. WAIT until OIU displays "DRUM ENTRY COMPLETE",
THEN, SELECT "OPEN PORT" on OIU.
12. VERIFY OIU displays "PORT OPENING...".
13. VERIFY OIU displays "PORT OPEN".

WARNING

Improper operation of the hoist may cause injury or equipment damage. Failure to properly position and close or open drum lifter could result in dropped drum. Caution must be exercised if reaching through gloveports to manually position drum lifter.

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NOTE - Unless otherwise specified, hoist control activities are performed on Hoist Control (107-PC-07-001). Controls must be activated until associated indicator illuminates. Reference Attachment 1: Hoist Control Functions.

14. PERFORM the following with Hoist Control:
 - a. ENSURE LIFTER jaws FULLY RAISED.
 - b. ENSURE LIFTER jaws FULL OPEN.
 - c. ENSURE HOIST properly positioned above 55 gal (208 liter) drum.
 - d. LOWER HOIST over 55 gal drum.
 - e. CLOSE LIFTER on 55 gal drum.
 - f. RAISE HOIST (and 55 gal drum) until "RAISED LIMIT" LED ILLUMINATES.
15. SELECT on OIU (in order):
 - a. "MAIN MENU" (unless already displayed).
 - b. "TROLLEY MENU".
 - c. "SWAB POSITION".
16. VERIFY OIU displays "TROLLEY MOVING TO SWAB POSITION..." then displays "TROLLEY AT SWAB POSITION".

C. CLOSE ENTRY PORT

1. SELECT on OIU (in order):
 - a. "MAIN MENU" (unless already displayed).
 - b. "OVERPACK ENTRY MENU".
2. COMPARE PIN displayed on OIU to PIN on drum inside glovebox.

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3. SELECT the following at DMS terminal TE-12-103 from the DMS menu:
 - a. "Process Ops"
 - b. "LLW Glovebox"
 - c. "Drum Status at Entry"
4. VERIFY the correct outer drum PIN is displayed and the correct inner drum PIN is displayed, if overpacked.
5. NOTE whether sorting is required.
- (M) 6. IF PINs do not match,
THEN:
 - a. RECORD both PINs.
 - b. NOTIFY DOS.
 - c. ENTER PIN correction into DMS as directed.
7. SELECT "INNER DRUM ID VERIFIED" on OIU.
- (R) 8. REQUEST RCT swab 55 gal drum for contamination.
9. VIEW inside of overpack drum for debris, on video monitor 107-TM-07-331B.
- (M) 10. IF drum contains debris,
THEN, NOTIFY DOS.
11. SELECT "CLOSE PORT".
12. VERIFY OIU displays "PORT CLOSING...".
13. VERIFY OIU displays "PORT CLOSED".
14. SELECT "START DRUM EXIT".
15. VERIFY OIU displays, "DRUM EXIT IN PROGRESS".
16. VERIFY OIU displays, "DRUM EXIT COMPLETE".

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17. VERIFY lights on Lift Table Control Pedestal (107-PC-09-202A), ILLUMINATED:
- AGV LOAD HEIGHT.
 - DRUM AT AGV END.
- (R) 18. REQUEST RCT survey drum for contamination.
19. IF drum is contaminated,
- THEN, decontaminate as directed.
 - RESURVEY drum.
20. REINSTALL clamp band on drum as follows:
- NOTE - *Manual Lift table operation is performed per WRPI-OP-0703, Glovebox Lift Table Operation.*
- LOWER Lift Table as required.
 - REINSTALL clamp band.
 - RAISE Lift Table to AGV LOAD HEIGHT.
 - RETURN Lift Table to NORMAL operation.
21. IF drum is uncontaminated,
THEN, SELECT "CLEAN DRUM READY FOR PICKUP".
22. IF drum is contaminated,
THEN, SELECT "CONTAMIN. DRUM READY FOR PICKUP".
23. VERIFY OIU displays ^{CONTAMINATED} "DRUM PICKUP IN PROGRESS...".
- D. MOVE DRUM TO DRUM TRANSFER CAR ^{OK}
- SELECT on OIU (in order):
 - "MAIN MENU" (unless already displayed).
 - "TROLLEY/MENU".
 - "TRANSFER PORT".
 - VERIFY OIU displays "TROLLEY MOVING TO TRANSFER PORT...".
 - WAIT until trolley STOPS.

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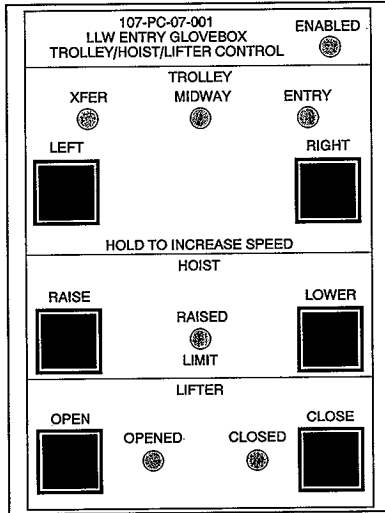
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- THEN, ~~VERIFY OIU displays "TROLLEY AT TRANSFER PORT".~~
4. SELECT on OIU (in order):
 - a. "MAIN MENU".
 - b. "DRUM TRANSFER MENU".
 5. ~~VERIFY OIU displays "TRANSFER CAR IN POSITION".~~
 6. SELECT "OPEN TRANSFER PORT" on OIU. ~~123 A~~
 7. VERIFY OIU displays "TRANSFER PORT OPENING...".
 8. WAIT until OIU displays "TRANSFER PORT OPEN".
 9. PERFORM the following with Hoist Control:
 - a. LOWER HOIST until drum is on transfer car AND hoist chain is slack.
 - b. OPEN LIFTER jaws.
 - c. RAISE HOIST until "RAISED LIMIT" LED ILLUMINATES.
 10. SELECT "CLOSE TRANSFER PORT" on OIU.
 11. VERIFY OIU displays "TRANSFER PORT CLOSING..." then displays "TRANSFER PORT CLOSED".
 12. SELECT "MAIN MENU".
 13. ENSURE "LLW ENTRY GLOVEBOX MAIN MENU" displayed on OIU.

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ATTACHMENT 1: HOIST CONTROL FUNCTIONS



107-PC-07-001, LLW ENTRY GLOVEBOX TROLLEY/HOIST/LIFTER CONTROL	
CONTROL SWITCHES	
SWITCH	FUNCTION
LEFT / RIGHT	MOVE HOIST TROLLEY LEFT / RIGHT
RAISE / LOWER	RAISE / LOWER HOIST
OPEN / CLOSE	OPEN / CLOSE LIFTER JAWS
INDICATORS	
XFER	HOIST LOCATED ABOVE TRANSFER PORT 107-D0-07-102
MIDWAY	HOIST LOCATED AT "PCS CONTROLLED SWAB" POSITION
ENTRY	HOIST LOCATED ABOVE ENTRY/EXIT PORT 107-D0-07-101
RAISED LIMIT	HOIST RAISED TO UPPER HEIGHT LIMIT
OPEN / CLOSED	LIFTER JAWS OPEN / CLOSED

WASTE RECEIVING AND PROCESSING (WRAP) PLANT OPERATING PROCEDURE

SYSTEM: PROCESS

LLW SORTING GLOVEBOX OPERATION

(HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

This procedure provides instructions for operation of the Low Level Waste (LLW) Sorting Glovebox (107-GB-07-102).

II. REFERENCE DOCUMENTS

HSRCM-1, Hanford Site Radiological Control Manual
 WRP1-OP-0701, Glovebox Housekeeping
 WRP1-OP-0702, Restart LLW Glovebox Operation
 WRP1-OP-0704, Glovebox Manipulator Operation
 WRP1-OP-0705, Bagless Transfer System Manual Operation
 WRP1-OP-0706, Packet NDE Operation
 WRP1-OP-0710, Glovebox Waste Sampling

III. PRESTART CONDITIONS

All personnel performing this procedure shall be qualified in accordance with WHC-CM-5-34, Section 1.8, "Training Plan," and on-the-job training.

Process area Heating, Ventilation, Air Conditioning (HVAC) in OPERATION.

Drum to be sorted is on the Transfer Car in the LLW Entry Glovebox, and ready to be transferred to the Sorting Glovebox.

RWM Transfer drum is located on Lift Table 107-LT-09-203A.

No faults or off normal conditions in the LLW Sorting glovebox as identified on the Diagnostics Menu screen of LLW Sorting Glovebox Operator Interface Unit OIU-12-103B.

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IV. SAFETY

Potential hazards, such as lifting heavy containers or handling sharp objects present in waste containers, must be mitigated by protective equipment, procedures, and administrative controls to ensure acceptable-risk operating conditions.

Consult with Operations Management and Industrial Hygiene, and refer to the Job Hazards Analysis (JHA), Radiological Work Permit (RWP) and Material Safety Data Sheets (MSDS) to determine required Personal Protective Equipment (PPE).

This procedure requires accessing gloveboxes through gloveports on a regular basis. Operators shall perform self survey upon exiting gloveport after each use. Radiological Control Technician (RCT) shall be contacted anytime self survey limits are exceeded.

Spills inside the glovebox shall be cleaned up per WRP1-OP-0701, Glovebox Housekeeping.

Warning - Use care to prevent injury. Possible safety hazards include:

- Tripping/Slipping
- Injuries to the hands at glovebox ports
- Radiological Contamination
- Interference with the Automatic Guided Vehicle (AGV)

V. TOOLS AND SUPPLIES

None.

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VII. PROCEDURE

WARNING

IN THE EVENT OF A MAJOR PROBLEM, LLW GLOVEBOXES MAY BE SHUT DOWN BY OPERATION OF EMERGENCY STOP BUTTON ON DMS CONSOLE TE-12-103. EMERGENCY STOP WILL SHUT DOWN ALL OPERATIONS IN THE GLOVEBOX LINE AND PLACE IT IN A SAFE CONDITION.

- NOTE 1 - Administrative hold steps are identified by letters in parentheses at the left margin of the procedure step. The direction given in the procedure step must be satisfied before work continues.
- (M) - Operations management shall approve operation.
- (R) - Radiological Control (RC) shall complete surveys or agree to permit continued operation.
- NOTE 2 - UNLESS OTHERWISE SPECIFIED, selections and displays are on LLW Sorting Glovebox Operator Interface Unit (OIU-12-103B).
- NOTE 3 - Gloveports and manipulators are used as needed to perform tasks throughout this procedure. Manipulator Operation is performed per WRP1-OP-0704, Glovebox Manipulator Operation.
- NOTE 4 - Data Management System (DMS) actions, when specified, are performed on DMS Terminal (107-TE-12-103).
- NOTE 5 - Lift Table 107-LT-09-203A controls and indicators are located on Lift Table Control Pedestal 107-PC-09-203A.
- NOTE 6 - Hoist control activities are performed on Hoist Control (107-PC-07-003A or 003B) at operator discretion. Active controller is selected by switch on 107-PC-07-003A. Functions must be activated until associated indicator illuminates. Reference Attachment 1: Hoist Control Functions.

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A. INITIALIZE SYSTEM

1. ENSURE DMS AUTO/MAINTENANCE keyswitch (107-07-HS-317) set to AUTO.
2. ENSURE Lift Table MODE switch set to NORMAL.
3. REVIEW "MAIN MENU".
4. IF OIU displays "SYSTEM INITIALIZED",
THEN, GO TO desired section(s),
OTHERWISE, PERFORM the following:
 - a. NOTIFY Duty Operations Supervisor (DOS).
 - b. SELECT "DIAGNOSTICS MENU".
 - c. OBSERVE fault messages.
 - d. PLACE DMS AUTO/MAINTENANCE keyswitch to "MAINTENANCE".
 - e. ENTER Maintenance Access Password on MAINTENANCE ACCESS MENU.
 - f. ACCESS Maintenance Screens from SORTING GLOVEBOX MAINTENANCE MAIN MENU as necessary to correct indicated initialization faults.
 - g. WHEN all faults have been corrected:
 - (1) PLACE DMS AUTO/MAINTENANCE keyswitch to "AUTO".
 - (2) SELECT "MAIN MENU".
 - (3) VERIFY display "SYSTEM INITIALIZED".
 - (4) GO TO desired section(s).

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B. TRANSFER WASTE DRUM TO DELID POSITION

1. VERIFY (visually) waste drum on Transfer Car (107-TC-07-101) at Entry port (107-DO-07-102).
2. SELECT in order, as required:
 - a. "MAIN MENU"
 - b. "TRANSFER CAR MENU".
 - c. "DELID/TIPPER".
3. VERIFY display "TRANSFER CAR MOVING TO DELID POSITION...".
4. WAIT for display "TRANSFER CAR AT DELID POSITION".

C. GRIP WASTE DRUM WITH DRUM TIPPER (107-DH-07-103)

NOTE - *Overbag must be lowered around or removed from drum far enough down for unimpeded operation of drum grabber. Bag parts remaining lodged under drum will be removed later.*

1. ~~IF~~ drum is enclosed in overbag.
THEN:

- a. ~~REMOVE overbag from top of drum.~~
- b. ~~PLACE loose overbag materials on sorting table.~~
2. ENSURE manipulator (107-EM-07-101) and arms PARKED.
3. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. "DRUM TIPPER MENU".
 - c. "LOWER AND CLOSE GRAB".

NOTE - *OIU displays "LOWER AND CLOSE GRAB IN PROGRESS..." while tipper lowers. "LOWER TIPPER" must be held until tipper reaches full down and stops.*

4. SELECT "LOWER TIPPER" until tipper down travel STOPS and display indicates "LOWER AND CLOSE GRAB COMPLETE".

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D. SAW WASTE DRUM CLAMP BAND

1. ENSURE manipulator and arms PARKED.
2. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. ^{SAW} ~~"LID/DELID MENU"~~.
 - c. "MOVE TO ~~RELID~~ DELID POSITION".
3. WAIT until Delid/Relid fixture (107-RT-07-101) is at "DELID" position.
4. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. "SAW MENU".

NOTE - In Steps VII.D.4.c and VII.D.5, "CX" & "CY" indicate desired position (C2 & C5 or C3 & C6). Positions are selected as needed to saw through clamp band without hitting clamp band bolt.

- c. "CX & CY SAW ORIENTATION".
5. ~~VERIFY display "CX & CY SAW ORIENTATION READY"~~.
6. SELECT "START SAW SEQUENCE".
7. VERIFY display "SAWING IN PROGRESS...".
8. WAIT until saw STOPS and display indicates "OPERATOR: GRAB CLAMP BAND WITH MANIPULATOR...".

CAUTION

MANIPULATORS MUST BE CLEAR OF SAW OPERATING AREA.

9. GRIP clamp band on each side of cut with manipulators.
10. SELECT "CONFIRM CLAMP BAND HELD".
11. VERIFY display "SAWING IN PROGRESS...".
12. WAIT until saw STOPS and display indicates "OPERATOR: GRAB CLAMP BAND WITH MANIPULATOR...".

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13. REMOVE clamp band pieces from drum and PLACE on sorting table.
14. PLACE manipulator and arms PARKED at POSITION 1.
15. VERIFY display "SAWING COMPLETE".
16. SELECT the following at DMS Screen DMSS0311:
 - a. "Process Ops"
 - b. "LLW Glovebox"
 - c. "Drum Status at Entry"
17. VERIFY the correct outer drum PIN is displayed and the correct inner drum PIN is displayed, if overpacked.
18. OBSERVE whether sorting is required.
19. IF drum is to be relided without sorting, THEN, GO TO Section VII.I, MOVE TRANSFER CAR TO RELID POSITION.

E. DELID WASTE DRUM

1. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. "LID/DELID MENU".
 - c. "START DELID SEQUENCE".
2. VERIFY display "DELID IN PROGRESS...".
3. WAIT for display "DELID COMPLETE".

F. EMPTY WASTE DRUM ONTO SORTING TABLE

1. ENSURE manipulator and arms are PARKED at POSITION 1.
2. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. "DRUM TIPPER MENU".
 - c. "RAISE WITH GRAB CLOSED".

Part Feature

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NOTE - OIU displays "RAISED WITH GRAB CLOSED IN PROGRESS..." while tipper raises. "RAISE TIPPER" must be held until tipper reaches desired position and stops.

3. RAISE drum as follows:

- a. IF overbag parts require removal,
THEN:
 - (1) SELECT "RAISE TIPPER" until drum is at desired position.
 - (2) REMOVE overbag and place on sorting table, as applicable.
- b. SELECT "RAISE TIPPER" until tipper up travel STOPS and display indicates "RAISE WITH GRAB CLOSED COMPLETE - ROTATE JOYSTICK".

NOTE - NDE X-Ray hard copies are used to prelocate non-compliant items. Drum contents should be dumped on sorting table in a controlled manner so packet position on table can be correlated with previous position in drum.

4. ROTATE drum tipper with joystick control until items begin emptying onto sorting table.
 - a. USE manipulators to aid movement of items, as required.

NOTE - Monitor (107-TM-07-331A) is focused on inside of drum.

5. VERIFY on video monitor (107-TM-07-331A), all waste has been emptied onto sorting table.
6. ENSURE manipulator and arms are PARKED.
7. ROTATE drum tipper upright to display "TIPPER AT VERTICAL".
8. SELECT "LOWER WITH GRAB CLOSED".

NOTE - OIU displays "LOWER AND CLOSE GRAB IN PROGRESS..." while tipper lowers. "LOWER TIPPER" must be held until tipper reaches full down and stops.

9. SELECT "LOWER TIPPER" until tipper down travel STOPS and display indicates "LOWER WITH GRAB CLOSED COMPLETE".

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G. REMOVE NON-COMPLIANT PACKETS FROM WASTE

NOTE - Non-compliant packets are identified and located by review of drum NDE X-ray hard copies and association of packet location on sorting table to previous position in drum. Packet X-RAY is used if positive identification cannot be made visually.

1. SELECT the following at DMS terminal:
 - a. "Process Ops"
 - b. "LLW Glovebox"
 - c. "Sorting Table"
2. VERIFY the parent PIN (drum contents on sorting table).
3. REVIEW the Waste Description.
4. OBSERVE if "Sample" and/or "Compliant" are checked.
5. SELECT "NDE Comment" button on LLW Sorting Table screen to view radiographer comments on the NDE Comment screen.
6. SELECT "Return to Sorting Table Screen" when comment review complete.
7. REVIEW drum NDE hard copies as necessary to locate non-compliant packet/item.
8. IF necessary,
THEN, X-RAY packet per WRP1-OP-0706, Packet NDE Operation.
 - a. IF packet contains suspect article,
THEN, GO TO Step VII.G.9.
 - b. IF NOT,
THEN, RETURN packet to sorting table and REPEAT Step VII.G.8 for additional packets, as required.
9. ATTACH bar code to non-compliant packet.
10. SCAN attached bar code.
11. PLACE non-compliant packet on Transfer Stand.

*Scan information
sequence*

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12. SELECT the following at DMS terminal:
 - a. "Process Ops"
 - b. "LLW Glovebox"
 - c. "Sorting Table"
13. SELECT "Non-Compliant" button on the LLW Sorting Table (DMSS0312) screen.
14. SELECT Material Group Code from the List of Values.
15. INPUT a brief Waste Description.
16. IF barcodes on additional packets are scanned while the LLW Non-Compliant screen is displayed,
THEN SELECT "Refresh" button to display the new packet information.
17. REPEAT Steps VII.G.7 through VII.G.16, as required, until all non-compliant items have been removed.
18. IF Transfer Stand is full,
THEN, PERFORM Sections VII.L through VII.O

AND

RETURN to Step VII.G.17 OR Step VII.G.19, as applicable.

19. IF waste samples are required,
THEN, PERFORM sampling per WRP1-OP-0710, Glovebox Waste Sampling.
20. SELECT the following at DMS terminal:
 - a. "Process Ops"
 - b. "LLW Glovebox"
 - c. "Sorting Table"
 - d. "Physcomp" on DMS Screen DMSS0312, LLW Sorting Table

NOTE - *The total estimated volume % of material must equal 100% and the total estimated weight cannot exceed the original drum waste weight.*

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21. UPDATE the following information as necessary to reflect the contents left on the Sorting table after the non-complaint packet(s) are removed:
 - Material Description
 - Estimated Volume % of Material
 - Estimated Weight of Material
 22. WHEN data has been updated,
THEN perform the following:
 - a. SELECT "Return To Sorting Table Screen"
 - b. ENTER signature password.
 - c. COMMIT data.
 23. SELECT "Chemcomp" button on Screen DMSS0312, LLW Sorting Table.
- NOTE - Either the weight or weight % can be entered. DMS will then calculate the other value.*
24. UPDATE the following information as necessary to reflect the contents left on the Sorting table after the non-complaint packet(s) are removed:
 - Hazardous Chemical Component ID
 - Hazardous Chemical Component Description
 - Estimated weight of Hazardous Chemical Component
 - Estimated weight % of Hazardous Chemical Component
 25. WHEN data has been updated,
THEN SELECT "Return To Sorting Table Screen".
 26. ENTER signature password.
 27. COMMIT data.

H. RETURN COMPLIANT WASTE TO WASTE DRUM

1. ENSURE all non-compliant items are removed from sorting table.
2. ENSURE DMS files have been updated, as required.
3. ENSURE manipulator and arms are PARKED at POSITION 2.

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4. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. "SORTING TABLE MENU".
 - c. "EXTEND TABLE".
5. VERIFY display "SORTING TABLE EXTENDING".
6. WAIT for display "EXTEND COMPLETED".
7. SELECT "ENABLE RAISE/LOWER".
8. VERIFY display "RAISE/LOWER ENABLED".

*TIP POSITION
Sorting Table Extended*

CAUTION

TABLE SHOULD BE TIPPED ONLY ENOUGH TO START MATERIAL SLIDING. DUMPING MATERIAL TOO FAST COULD RESULT IN OVERFLOW OR BLOCKAGE.

NOTE - RAISE/LOWER buttons on OIU must be selected (touched) until table reaches desired angle.

9. SELECT "RAISE SORTING TABLE" until table reaches desired angle.
10. GUIDE waste into waste drum with manipulators, as necessary.

NOTE - A video camera is present which is focused on raised Sorting surface to aid in packet unloading.

11. ENSURE all remaining packets have been returned to waste drum.
- (M) 12. IF all waste cannot be placed in waste drum, THEN, NOTIFY DOS.
13. SELECT "LOWER SORTING TABLE" until table is FULL DOWN.
14. SELECT "DISABLE RAISE/LOWER".
15. VERIFY display "RAISE/LOWER DISABLED".
16. SELECT "RETRACT TABLE".
17. VERIFY display "SORTING TABLE RETRACTING...".
18. WAIT for display "SORTING TABLE RETRACTED".

VERIFY DISPLAY SORTING TABLE LOWERED

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19. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. "DRUM TIPPER MENU".
 - c. "OPEN GRAB AND PARK".
 20. VERIFY display "OPEN GRAB AND PARK IN PROGRESS...".
 21. WAIT for display "OPEN GRAB AND PARK COMPLETE".
- I. MOVE WASTE DRUM TO RELID POSITION
1. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. "TRANSFER CAR MENU".
 - c. "RELID".
 2. VERIFY display "TRANSFER CAR MOVING TO RELID POSITION...".
 3. WAIT for display "TRANSFER CAR AT RELID POSITION".
- J. RELID WASTE DRUM
1. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. "LID/DELID MENU".
 - c. "START RELID SEQUENCE".
 2. VERIFY display "RELID IN PROGRESS...".
 3. MONITOR display during RELID sequence.

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4. IF ~~"OPERATOR: LOAD CLIPS"~~ displays:
THEN:

NOTE - Extra C-clips are stored on shelf inside glovebox, under Consumable Entry Port, on maintenance side of glovebox.

- a. LOAD new supply of C-Clips in clip magazine.

(1) INSERT new clips through Consumable Entry Port, as required, when shelf supply is used.

- ~~b. SELECT "CONFIRM C-CLIPS LOADED".~~

5. ~~WAIT~~ for display "RELID COMPLETE".

6. VERIFY all C-Clips have been attached.

K. TRANSFER WASTE DRUM TO SUPERCOMPACTOR

1. SELECT in order, as required:

a. "MAIN MENU".

b. "TRANSFER CAR MENU".

2. SELECT "COMPACTOR TRANSFER".

3. VERIFY display "TRANSFER CAR MOVING TO COMPACT TRANSFER POSITION...".

4. WAIT for display "TRANSFER CAR AT COMPACT TRANSFER POSITION".

CAUTION

FAILURE TO PLACE SUPERCOMPACTOR IN MANUAL PRIOR SELECTING "COMPACTOR GLOVEBOX" ON OTU WILL RESULT IN AUTOMATIC COMPACTING OF DRUM.

5. IF the drum is to be moved through the Supercompactor without being compacted,
THEN GO TO WRP1-OP-0715, Section titled, "TRANSFERRING DRUM WITHOUT CRUSHING".
AND PLACE Supercompactor in MANUAL.
6. SELECT "COMPACTOR GLOVEBOX".
7. VERIFY display "TRANSFERRING DRUM TO COMPACTOR".

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8. IF OIU displays "COMPACTOR BUSY",
THEN, PERFORM one of the following:
 - a. (1) SELECT "COMPACTOR TRANSFER" (cancels transfer).
 - (2) CONFIGURE compactor to accept drum.
 - (3) REPEAT from Step VII.K.1.

OR

 - b. CONFIGURE compactor to accept drum. Drum will transfer when compactor becomes available.
9. WAIT for display "DRUM TRANSFER TO COMPACTOR COMPLETE".
10. SELECT "ENTRY"
11. VERIFY display "TRANSFER CAR MOVING TO ENTRY POSITION...".
12. WAIT for display "TRANSFER CAR AT ENTRY POSITION".
- L. PLACE TRANSFER STAND IN RWM TRANSFER DRUM
 1. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. "RWM PORT MENU".
 - c. "OPEN PORT".
 2. VERIFY display "PORT OPEN".

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WARNING

IMPROPER HOIST OPERATION MAY CAUSE INJURY. CAUTION MUST BE EXERCISED IF REACHING THROUGH GLOVEPORTS TO POSITION TRANSFER STAND.

CAUTION

ALLOWING TRANSFER STAND (on hoist) TO SWING INTO PORT SEALING SURFACES WHEN LOWERING INTO DRUM MAY DAMAGE PORT. USE OF ADDITIONAL OPERATOR MAY BE REQUIRED TO SAFELY GUIDE TRANSFER STAND INTO DRUM TO PREVENT DAMAGE.

3. PERFORM the following with Hoist Control:
 - a. RAISE HOIST (and puck) to "RAISED LIMIT".
 - b. MOVE TROLLEY to "PORT" position.
 - c. LOWER HOIST (and Transfer Stand) into drum.
 - d. RELEASE hook from Transfer Stand.
 - e. RAISE HOIST (and puck) to "RAISED LIMIT".
- M. REMOVE DRUM FROM RWM TRANSFER PORT (107-DO-07-105)
 1. ENSURE the following with hoist control:
 - a. Transfer Stand disengaged from Hoist.
 - b. HOIST at "RAISED LIMIT".
 2. ENSURE port sealing surfaces are free of dirt and debris.
 3. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. "RWM PORT MENU".
 - c. "CLOSE PORT".
 4. VERIFY display "PORT CLOSING...".

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- (M)
5. IF port closing is disrupted,
THEN:
 - a. ACKNOWLEDGE OIU fault.
 - b. NOTIFY DOS.
 - c. CLOSE Bagless Transfer Port per WRP1-OP-0705, Bagless Transfer System Manual Operation.
 6. WAIT for display "PORT CLOSED".
 7. SELECT "START DRUM EXIT".
 8. VERIFY display "DRUM EXIT IN PROGRESS...".
 9. WAIT for display "DRUM EXIT COMPLETE".
 10. VERIFY Lift Table indicators ON:
 - "AGV LOAD HEIGHT"
 - "DRUM AT AGV END"
 - (R) 11. REQUEST RCT survey drum for contamination.
 - a. IF drum is contaminated,
THEN, decontaminate as directed.
 - b. RESURVEY drum.
 12. SELECT "DRUM READY FOR PICKUP".
 - N. MATE DRUM TO RWM ^{BAGLESS} TRANSFER PORT (107-DO-07-105)
 1. ENSURE with hoist control:
 - a. HOIST at "RAISED LIMIT"
 - b. TROLLEY at ~~"PORT"~~ MID POINT
 2. ENSURE ~~sorting table~~ FULLY RETRACTED and HORIZONTAL.
 3. ENSURE manipulator and arms PARKED.
 4. SELECT in order, as required:
 - a. "MAIN MENU".
 - b. "RWM PORT MENU".

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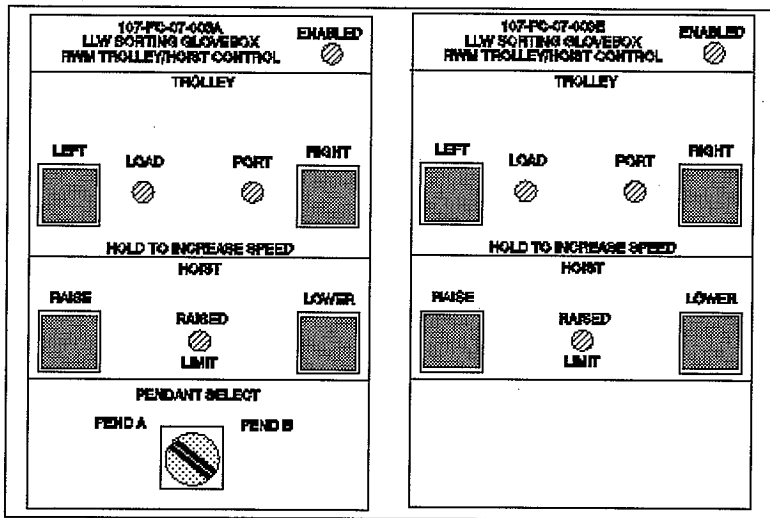
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- (M)
5. VERIFY display "DRUM AT LIFT TABLE".
 6. PERFORM the following:
 - a. SCAN Location (X) bar code
 - b. SCAN Drum bar code.
 - c. IF scanner displays "PIN MIS-MATCH", THEN, NOTIFY DOS.
 - d. SCAN End (X) bar code.
 7. SELECT "START DRUM ENTRY".
 8. VERIFY display "DRUM ENTRY IN PROGRESS...".
 9. WAIT for display "DRUM ENTRY COMPLETE".
 - ~~10. VERIFY Lift Table "DRUM UNDER PORT" indicator ON.~~
 11. SELECT "OPEN PORT".
 12. VERIFY display "PORT OPENING...".
 13. WAIT for display "PORT OPEN".
0. REMOVE TRANSFER STAND FROM RWM TRANSFER DRUM
1. PERFORM the following with Hoist Control:
 - a. MOVE Trolley to "PORT".
 - b. LOWER Hoist.
 - c. ATTACH hoist hook to Transfer Stand.
- NOTE - *Transfer stand position and elevation may be changed, as needed, to enhance packet loading.*
- d. RAISE HOIST as needed.
 - e. MOVE TROLLEY to desired loading position.
 - f. LOWER HOIST to desired loading position.

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ATTACHMENT 1: SORTING GLOVEBOX HOIST CONTROL FUNCTIONS



(107-PC-07-003A/003B) LLW SORTING GLOVEBOX RWM TROLLEY/HOIST CONTROL CONTROL SWITCHES

SWITCH	FUNCTION
LEFT / RIGHT	MOVE HOIST TROLLEY LEFT / RIGHT
RAISE / LOWER	RAISE / LOWER HOIST
PENDANT SELECT (*)	SELECTS ACTIVE CONTROL (107-PC-07-003A or 003B)
NOTE (*): Active control is selected at Operator discretion.	
INDICATORS	
LOAD	HOIST AT TRANSFER STAND LOAD POSITION
PORT	HOIST LOCATED ABOVE RWM TRANSFER PORT (107-DO-07-105)
RAISED LIMIT	HOIST RAISED TO UPPER HEIGHT LIMIT

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SYSTEM: PROCESS

LLW SUPERCOMPACTOR OPERATION

(HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

This procedure provides instructions for operation of the Low Level Waste Drum Supercompactor.

The Supercompactor is used to reduce low level waste volume by compression.

II. REFERENCE DOCUMENTS

HSRCM-1, Hanford Site Radiological Control Manual

WHC-CM-5-34, Solid Waste Disposal Operations Administration

WHC-CM-5-36, SWD Internal Requirements

WHC-EP-0063, Hanford Site Solid Waste Acceptance Criteria

INET manual, MGT-SVV-429765

III. PRESTART CONDITIONS

All personnel performing this procedure shall be qualified in accordance with WHC-CM-5-34, Section 1.8, "Training Plan," and on-the-job training.

Operator has Supercompactor Operator Key, stored in Controlled key lockbox.

IV. SAFETY

All potential hazards, such as lifting heavy containers or handling sharp objects present in waste containers, must be mitigated by protective equipment, procedures, and administrative controls to ensure acceptable risk operating conditions.

Personnel shall not reach into gloveboxes when equipment is in operation.

V. TOOLS AND SUPPLIES

All tools necessary are stored in the Supercompactor glovebox.

Standard glovebox cleaning supplies.

One liter plastic bottle, for anvil liquids collection.

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VII. PROCEDURE

A. SYSTEM STARTUP

NOTE - All control panel actions are performed at, and messages displayed on, Supercompactor Panelview panel, unless otherwise noted.

1. ENSURE conveyors, anvil, and compactor glovebox are free of foreign objects.
2. ENSURE mold stripping blocks are down.
3. ENSURE any equipment, tools, and supplies, in glovebox are properly stored.
4. CLOSE disconnect (##)
5. ENSURE Hydraulic Power Unit (HPU) cooling system is operating, as indicated on cooling system control panel.
6. INSERT Operator Control Key AND TURN ON TO RUN
7. PRESS PanelView POWER ON button.
8. PRESS "F21-RESET".
9. PRESS "F7-HPU OFF" ¹⁵ ON
10. CHECK message is "OFF MODE - AT HOME POSITION".
 - a. IF not in HOME position, THEN PRESS "F21-GO HOME".

NOTE - Puck "spring back" needs to be considered when determining desired puck height.

Minimum puck height is 4.0 inches.

11. SET puck height:
 - a. PRESS "F17-CRUSHED PUCK HEIGHT"
 - b. ENTER desired puck height
 - c. PRESS ENTER
 - d. PRESS CANCEL.

*Assumes
HPU is on.*

*This only
operates when
HPU is on.*

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12. CHECK ram crushing pressure setting.
- a. IF ram crushing pressure needs reset,
THEN:
- (1) PRESS "F18-CRUSHING PRESSURE"
 - (2) ENTER desired ram pressure
 - (3) PRESS ENTER
 - (4) PRESS CANCEL.

SAFETY OPTION KEY**WARNING**USE OF SUPERVISOR KEY BYPASSES GLOVEBOX LIGHT CURTAIN SAFETY FEATURE.**CAUTION**

MAXIMUM RAM RELIEF PRESSURE SETTING IS 4200 psig.

13. CHECK ram relief pressure setting.
- a. IF ram relief pressure needs reset,
THEN:
- (1) CONTACT Duty Operations Supervisor
 - (2) INSERT Supervisor Control Key AND TURN ON
 - (3) PRESS "F19-RELIEF PRESSURE"
 - (4) ENTER desired ram pressure
 - (5) PRESS ENTER
 - (6) PRESS CANCEL
 - (7) TURN Supervisor Control Key OFF AND REMOVE key.

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B. TRANSFERRING DRUM WITHOUT CRUSHING

NOTE - This section is intended for use when it is desired to pass a drum through the Supercompactor without crushing it.

NOTE - F10 may be used at any time to exit MANUAL mode.

CAUTION

FAILURE TO PLACE THE SUPERCOMPACTOR IN MANUAL PRIOR TO THE TRANSFER CAR IN THE SORTING GLOVEBOX DELIVERING THE DRUM TO THE ENTRY POSITION, WILL RESULT IN AUTOMATICALLY CRUSHING THE DRUM.

CAUTION

INTERLOCKS ARE BYPASSED IN MANUAL MODE.

In Manual mode, the F-buttons, once momentarily pressed, will cause a step to progress to its end. Repressing the button will pause the step.

1. CHECK message is "OFF MODE - AT HOME POSITION".
2. PRESS "F5-MANUAL".
3. ENSURE the desired drum is on input conveyor.
4. PRESS ~~AND HOLD~~ "F1-IN FWD" UNTIL drum loads into LUC.
5. PRESS ~~AND HOLD~~ "F3-LUC FWD" UNTIL puck is on output conveyor.
6. PRESS ~~AND HOLD~~ "F11-LUC REV" UNTIL LUC is fully retracted.
7. PRESS ~~AND HOLD~~ "F8-OUT FWD" UNTIL drum is at desired location.
8. PRESS "F10-OFF MODE".
9. CHECK message is "OFF MODE - AT HOME POSITION".

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C. AUTOMATIC OPERATION

NOTE - F10 may be used at any time to exit AUTO mode.

1. ENSURE message is "OFF MODE - AT HOME POSITION".
2. PRESS "F1-AUTO".
3. CHECK message is "AUTO MODE".
4. WHEN drum compacting is completed:
 - a. PRESS "F10-OFF MODE"
 - b. CHECK message is "OFF MODE - AT HOME POSITION"
 - c. SHUTDOWN supercompactor per section VII.G.

D. SEMI-AUTOMATIC OPERATION

NOTE - F10 may be used at any time to exit SEMI-AUTO mode.

1. ENSURE message is "OFF MODE - AT HOME POSITION".
2. PRESS "F3-SEMI-AUTO".
3. CHECK message is "WAITING FOR LOAD COMMAND (F1)".
4. AFTER a drum is on input conveyor, THEN:
 - a. PRESS "F1-LOAD".
 - b. CHECK drum loads into LUC.
 - c. PRESS "F3-CRUSH".
 - d. CHECK puck is stripped from mold.
 - e. PRESS "F5-PUSH".
 - f. CHECK puck moves onto outfeed conveyor.
5. REPEAT steps VII.D.3 to VII.D.4.f to crush additional drums.

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6. WHEN drum compacting is completed:
 - a. PRESS "F10-OFF MODE"
 - b. CHECK Panelview display is "OFF MODE - AT HOME POSITION"
 - c. SHUTDOWN supercompactor per section VII.G.

E. MANUAL OPERATION

NOTE - F10 may be used at any time to exit MANUAL mode.

CAUTION

INTERLOCKS ARE BYPASSED IN MANUAL MODE

1. CHECK message is "OFF MODE - AT HOME POSITION".
2. PRESS "F5-MANUAL".
3. AFTER a drum is on input conveyor.
 - a. PRESS AND HOLD "F1-IN FWD" UNTIL drum loads into LUC.
 - b. PRESS "F2-LASER IS OFF"
 - c. CHECK message is "LASER DETECTED".

NOTE - PanelView will display "LASER NOT DETECTED" when a drum breaks the beam. The drum is centered on the anvil when Panelview display "LASER DETECTED" returns.

NOTE - Drum can be positioned using LUC jog keys (F4-F6 and F12-14).

- d. PRESS AND HOLD "F3-LUC FWD" UNTIL drum is centered on anvil.
- e. PRESS "F2-LASER IS ON".
- f. CHECK "LASER DETECTED" is no longer displayed.

CAUTION

FAILURE TO FULLY RETRACT LUC CAN RESULT IN MOLD DAMAGING LUC.

- g. PRESS AND HOLD "F11-LUC REV" UNTIL LUC is fully retracted.

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*See
previous
note*

- h. PRESS ~~AND HOLD~~ "F17-STOP MOLD" UNTIL mold is fully lowered.
- i. PRESS ~~AND HOLD~~ "F18-STOP PISTON" UNTIL ram reaches:
 - (1) crushing pressure
 - OR
 - (2) desired puck height.
- j. PRESS "F19-STOP COMP".
- k. WAIT five seconds,
THEN PRESS "F20-STOP_STRIP".
- l. CHECK puck has stripped from mold.
- m. WHEN mold reaches height of ram,
THEN PRESS "F21-STOP RETURN".
- n. CHECK mold and ram return HOME.
- o. PRESS AND HOLD "F3-LUC FWD" UNTIL puck is on output conveyor.
- p. PRESS AND HOLD "F11-LUC REV" UNTIL LUC is fully retracted.

NOTE - "F8-OUT FWD" and "F16-OUT REV" may be used to position puck.

- q. PRESS AND HOLD "F8-OUT FWD" UNTIL puck is at desired location.
- 4. REPEAT steps VII.B.3, VII.E.3 to VII.B.7, VII.E.3.q to crush additional drums.
- 5. WHEN drum compacting is completed:
 - a. PRESS "F10-OFF MODE".
 - b. CHECK message is "OFF MODE - AT HOME POSITION".
 - c. SHUTDOWN supercompactor per section VII.G.

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F. MANUAL MOLD STRIPPING

NOTE - F10 may be used at any time to exit to the OFF mode.

1. REQUEST Duty Operations Supervisor authorization to perform manual mold stripping.
2. ENSURE mold and ram heights are greater than 12 inches.
 - a. IF mold and ram are less than 12 inches:
 - (1) PRESS "F21-RESET" to raise
 - (2) RELEASE "F21-RELEASE" WHEN mold and ram are greater than 12 inches.
3. PRESS "F10-OFF MODE".
4. PRESS "F7-HPU OFF".
5. TURN Operator Control Key OFF AND REMOVE key.

WARNING

PINCHING HAZARDS ARE PRESENT WHILE UPRIGHTING MOLD BLOCKS.
CAUTION IS NECESSARY WHILE UPRIGHTING MOLD BLOCKS.

6. UPRIGHT mold stripping blocks.
7. INSERT Operator Control Key AND TURN ON.
8. PRESS PanelView POWER ON button.
9. PRESS "F21-RESET".
10. PRESS "F19-STOP COMP"
11. PRESS "F7-HPU OFF".
12. CHECK message is "ON MODE - AT HOME POSITION".

CAUTION

INTERLOCKS ARE BYPASSED IN MANUAL MODE.

13. PRESS "F5-MANUAL".

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14. PRESS "F17-STOP MOLD".
15. PRESS "F18-STOP PISTON".
16. PRESS "F20-STOP_STRIP".
17. WHEN mold reaches height of ram,
THEN PRESS "F21-STOP RETURN".
18. CHECK puck has been stripped.
19. PRESS "F19-STOP COMP".
20. PRESS "F21-STOP RETURN".
21. CHECK mold and ram return HOME.
22. PRESS "F10-OFF MODE".
23. PRESS "F7-HPU OFF".
24. TURN Operator Control Key OFF AND REMOVE key.

WARNING

PINCHING HAZARDS ARE PRESENT WHILE UPRIGHTING MOLD BLOCKS.
CAUTION IS NECESSARY WHILE UPRIGHTING MOLD BLOCKS.

25. LOWER mold stripping blocks.
26. INSERT Operator Control Key AND TURN ON.
27. PRESS PanelView POWER ON button.
28. PRESS "F21-RESET".
29. PRESS "F7-HPU OFF".
30. CHECK message is "OFF MODE - AT HOME POSITION".

CAUTION

UPRIGHTED MOLD STRIPPING BLOCKS CAN DAMAGE LUC.

31. PRESS AND HOLD "F3-LUC FWD" UNTIL puck is on output conveyor.
32. PRESS AND HOLD "F11-LUC REV" UNTIL LUC is fully retracted.

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NOTE - "F8-OUT FWD" and "F16-OUT REV" can be used to position puck.

33. PRESS AND HOLD "F8-OUT FWD" UNTIL puck is at desired location.
34. PRESS "F10-OFF MODE".

G. SYSTEM SHUTDOWN

1. ENSURE anvil is clear of all objects.
2. CHECK message is "OFF MODE - AT HOME POSITION".
3. CHECK LUC is fully retracted.

CAUTION

INTERLOCKS ARE BYPASSED IN MANUAL MODE

- a. IF LUC is not fully retracted,
THEN:
 - (1) PRESS "F5-MANUAL"
 - (2) PRESS AND HOLD "F11-LUC REV" UNTIL LUC is fully retracted
 - (3) PRESS "F10-OFF MODE".
4. PRESS "F7-HPU OFF".
5. TURN Operator Control Key OFF AND REMOVE key.

WARNING

PINCHING HAZARDS ARE PRESENT WHILE UPRIGHTING MOLD BLOCKS.
CAUTION IS NECESSARY WHILE UPRIGHTING MOLD BLOCKS.

6. UPRIGHT mold stripping blocks.
7. INSERT Operator Control Key AND TURN ON.
8. PRESS PanelView POWER ON button.
9. PRESS "F21-RESET".

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10. SET puck height to four inches:
 - a. PRESS "F17-CRUSHED PUCK HEIGHT"
 - b. ENTER "4.0"
 - c. PRESS ENTER
 - d. PRESS CANCEL.

CAUTION

INTERLOCKS ARE BYPASSED IN MANUAL MODE.

11. PRESS "F5-MANUAL".
12. LOWER mold:
 - a. PRESS "F17-STOP MOLD"
 - b. CHECK mold is at 4.0 inches.
- ~~13. LOWER ram:
 - a. PRESS "F18-STOP PISTON"
 - b. CHECK ram is at 4.0 inches
 - c. PRESS "F19-STOP COMP"~~

*DON'T DO THIS!
IT COULD COLLAPSE
THE ALUMINUM BLOCKS!*

14. PRESS "F10-OFF MODE".
15. PRESS "F7-HPU OFF".
16. TURN Operator Control Key OFF AND REMOVE key.
17. RETURN Operator Control Key to controlled key lockbox.
18. PERFORM glovebox housekeeping, as required, per section VII.H.

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H. GLOVEBOX HOUSEKEEPING

CAUTION

INTRODUCTION OF UNAPPROVED CLEANING AGENTS INTO GLOVEBOXES MAY RESULT IN ENVIRONMENTAL NON-COMPLIANCE, UNWANTED CHEMICAL REACTIONS OR UNDESIRABLE EFFECTS. USE ONLY FACILITY APPROVED CLEANING AGENTS.

1. SUPERCOMPACTOR GLOVEBOX INSPECTION

- a. CHECK, visually throughout supercompactor glovebox for:
 - (1) Loose items, liquids, droppings or tailings from waste compaction
 - (2) Improperly stored glovebox tools and equipment
 - (3) Debris in the mold cleanout ports
 - (4) Debris in the anvil liquid collection ports
 - (5) Leaks from hydraulic systems
 - (6) Left-over agents introduced for cleaning or other purposes
 - (7) Material in Supercompactor base trough.
 - (8) Foreign matter on glovebox walls, windows and/or equipment.
- b. CHECK supercompactor equipment for damage, leaks, etc

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- c. CLEAN supercompactor as required, per following sections of this procedure:

- (1) CLEANUP solids per Section VII.H.2.
- (2) CLEANUP liquids per Section VII.H.3.
- (3) WIPEDOWN glovebox per Section VII.H.4.
- (4) LOADOUT of debris/cleanup materials per Section VII.H.5.

NOTE - Radiological survey is required upon exiting gloveports after each use.

- (5) UPON exiting gloveports at any point in this procedure, **PERFORM** a self-survey.

- (a) IF self-survey limits are exceeded,
THEN CONTACT Radiological Control Technician.

2. SOLID DEBRIS REMOVAL

- a. ENSURE Supercompactor is SHUTDOWN.
- b. DETERMINE gloveport(s) which provide best access.
- c. PICKUP waste and debris items AND MOVE to glovebox sorting table.
 - (1) USE vacuum, broom, dustpan, or shovel, located inside glovebox, as necessary to aid cleanup.

NOTE - Tools may be stored in the press trough or under the conveyor.

- d. STORE glovebox tools and equipment.
- e. MOVE excess tools and equipment to glovebox sorting table.

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3. LIQUIDS CLEANUP

- a. ENSURE Supercompactor is SHUTDOWN.
- b. TRANSFER required materials into glovebox through bagless transfer port, sample transfer port or consumable entry port, as applicable.

*NOTE - Cleanup is accomplished by best suited method.
The following steps are a guideline.*

- c. PLACE dam, dike or absorbent containment from spill kit around liquid.
- d. ABSORB, using Rad-Pads and absorbent, all liquids.
- e. PLACE used absorbent and Rad-Pads into plastic bag(s).
- f. PLACE bagged items on glovebox sorting table.
- g. IF necessary,
THEN WIPEDOWN spill area per Section VII.H.4.
- h. CHECK anvil liquids collection bottle liquid level.
- i. IF anvil liquids collection bottle contains any liquid:
 - (a) INFORM Duty Operations Supervisor
 - (b) REMOVE AND CAP bottle
 - (c) INSTALL empty bottle
 - (d) DISPOSE of full bottle/liquid as directed.

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4. GLOVEBOX WIPEDOWN

- a. ENSURE Supercompactor is SHUTDOWN.
- b. TRANSFER required materials (approved cleaning agents, rags, Rad-Pads, etc.) into glovebox through bagless transfer port, sample transfer port, or consumable entry port, as applicable.

NOTE - Cleanup is accomplished by best suited method (i.e., cleaning agents may be poured directly on area or applied to rags or pads, then wiped over area). The following steps are a guideline.

- c. APPLY cleaning agent to affected area(s).
- d. SCRUB OR BRUSH affected area(s).
- e. WIPE, affected area(s) and equipment with clean, dry, Rad-Pads or rags.
- f. PLACE used Rad-Pads, rags and other items to be disposed, into plastic bag(s).
- g. PLACE bagged items on glovebox sorting table.

5. LOADOUT

NOTE - Tools may be stored in the press trough or under the conveyor.

- a. STORE Supercompactor operating/cleaning tools.
- b. REMOVE excess tools or equipment per applicable glovebox operating and/or loadout procedure.

NOTE - Remaining cleanup items are treated as if processing waste typical of applicable glovebox.

- c. PROCESS remaining cleanup items as directed, per applicable glovebox operating and loadout procedures.

WRAP 1 PLANT OPERATING PROCEDURE

SYSTEM: PROCESS

LLW EXIT GLOVEBOX OPERATION (HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

This procedure provides instructions for operation of the Low Level Waste (LLW) Exit Glovebox.

II. REFERENCE DOCUMENTS

HSRCM-1, Hanford Site Radiological Control Manual

WHC-CM-5-34, Solid Waste Disposal Operations Administration

WHC-CM-5-36, SWD Internal Requirements

WHC-EP-0063, Hanford Site Solid Waste Acceptance Criteria

WRP1-OP-0703, Glovebox Lift Table Operation

WRP1-OP-0701, Glovebox Housekeeping

III. PRESTART CONDITIONS

All personnel performing this procedure shall be qualified in accordance with WHC-CM-5-34, Section 1.8, "Training Plan," and on-the-job training.

Process area Heating, Ventilation, Air Conditioning (HVAC) in OPERATION.

IV. SAFETY

Potential hazards, such as lifting heavy containers or handling sharp objects present in waste containers, must be mitigated by protective equipment, procedures, and administrative controls to ensure acceptable-risk operating conditions.

Consult with Operations Management and Industrial Hygiene, and refer to the Job Hazards Analysis (JHA), Radiological Work Permit (RWP) and Material Safety Data Sheets (MSDS) to determine required Personal Protective Equipment (PPE).

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IV. SAFETY (Continued)

A light curtain is used to detect access at the gloveports above the conveyor between the Supercompactor and the LLW Exit Glovebox. If the light curtain is broken all automatic operations within the glovebox will be stopped to prevent possible injury to the operator.

This procedure requires accessing gloveboxes through gloveports on a regular basis. Operators shall perform self survey upon exiting gloveport after each use. Radiological Control Technician (RCT) shall be contacted anytime self survey limits are exceeded.

Spills inside the glovebox shall be cleaned up per WRP1-OP-0701, Glovebox Housekeeping.

Warning - Use care to prevent injury. Possible safety hazards include:

- Tripping/Slipping
- Injuries to the hands at glovebox ports
- Radiological Contamination
- Interference with the Automatic Guided Vehicle (AGV)

V. TOOLS AND SUPPLIES

Ruler for measuring puck height.
Indelible Black Marker Pens (e.g. Sharpie).

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VII. PROCEDURE

WARNING

IN THE EVENT OF A MAJOR PROBLEM, THE LLW GLOVEBOX LINE MAY BE SHUT DOWN BY OPERATION OF LLW PROCESS GLOVEBOX EMERGENCY STOP BUTTON ON THE DMS CONSOLE. EMERGENCY STOP WILL SHUT DOWN ALL OPERATIONS IN THE GLOVEBOX LINE AND PLACE IT IN A SAFE CONDITION. RESTART FROM EMERGENCY STOP IS PERFORMED WITH PROCEDURE WRP1-OP-0702, RESTART GLOVEBOX OPERATION.

NOTE 1 - Administrative hold steps are identified by letters in parentheses at the left margin of the procedure step. The direction given in the procedure step must be satisfied before work continues.

(M) - Operations management shall approve operation.

(R) - Radiological Control (RC) shall complete surveys or agree to permit continued operation.

NOTE 2 - Unless otherwise specified Data Management System (DMS) actions are performed on DMS Terminal (107-TE-12-103).

NOTE 3 - Unless otherwise specified Operator Interface Unit (OIU) actions are performed on OIU (OIU-12-103C).

A. INITIALIZE SYSTEM

1. ENSURE AUTO/MAINTENANCE keyswitch (107-07-HS-318) on DMS Terminal is in AUTO.
2. SELECT "DIAGNOSTICS MENU" on OIU MAIN MENU.
3. VERIFY OIU displays "DIAGNOSTICS MENU".

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4. IF DIAGNOSTIC MENU flashes "FAIL",
THEN:

NOTE - Operator uses normally available OIU screens. If necessary, DOS may access maintenance mode on OIU.

- a. IF possible,
THEN, CORRECT fault(s) indicated on OIU.
- b. IF faults cannot be corrected,
THEN, NOTIFY Duty Operations Supervisor (DOS).
- c. WHEN faults have been corrected,
THEN, SELECT "MAIN MENU".
- d. REPEAT Section VII.A.

5. WHEN DIAGNOSTIC MENU flashes "PASS",
THEN, SELECT "MAIN MENU".

B. EXIT DRUM ACCESS TO LLW GLOVEBOX

1. SELECT "EXIT PORT MENU".
2. VERIFY display, "EXIT PORT MENU".
3. VERIFY display "DRUM AT LIFT TABLE". IF OIU displays "NO DRUM AT LIFT TABLE",
THEN:
 - a. NOTIFY Control Room and/or DOS.
 - b. CORRECT drum deficiency as directed.
4. SCAN the following in order with portable scanner 12-NE-310:
 - a. Location (2Y) barcode on side of glovebox.
 - b. Overpack Drum (S) barcode.

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- (M) 5. IF Scanner displays "PIN MIS-MATCH",
THEN, NOTIFY DOS.
6. SCAN "YEND" barcode on side of glovebox.
7. SCAN "YYES" barcode.
- (M) 8. IF Scanner displays "PIN MIS-MATCH",
THEN, NOTIFY DOS.
9. REMOVE clamp band from overpack drum.
10. SELECT "START DRUM ENTRY".
11. VERIFY display "DRUM ENTRY IN PROGRESS...".
12. WAIT until OIU displays "DRUM ENTRY COMPLETE",
THEN, SELECT "OPEN PORT".
13. VERIFY display "PORT OPENING...".
14. VERIFY display "PORT OPEN".
15. SELECT the following in order at DMS Terminal:
- "PROCESS OPS"
 - "LLW GLOVEBOX"
 - "EXIT GLOVEBOX"
16. VERIFY the Loadout Drum PIN.
17. VERIFY All other data fields on the screen are blank.
- C. PUCK RECEIPT AND WEIGHT MEASUREMENT
- SELECT in order:
 - ~~"MAIN MENU" (unless already displayed).~~
 - ~~^{Wait 6 H}"CONVEYOR MENU".~~
 - ~~"START COMPACT RECEIPT".~~
 - ~~VERIFY display "COMPACTED DRUM RECEIPT IN PROGRESS".~~
 - ~~WAIT for display "COMPACTED DRUM RECEIPT COMPLETE".~~
 - PLACE barcode on compacted puck.

WRAP 1 PLANT OPERATING PROCEDURE

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5. SCAN puck barcode.
6. MEASURE puck height.
7. RECORD measured puck height on drum with black marker.
8. SELECT in order:
 - a. "MAIN MENU" (unless already displayed).
 - b. "TROLLEY MENU".
 - c. "COMPACT RECEIPT".

WARNING

IMPROPER HOIST OPERATION MAY CAUSE INJURY OR EQUIPMENT DAMAGE. FAILURE TO PROPERLY POSITION AND CLOSE OR OPEN DRUM LIFTER COULD RESULT IN DROPPED DRUM. CAUTION MUST BE EXERCISED IF REACHING THROUGH GLOVEPORTS TO MANUALLY POSITION DRUM LIFTER.

NOTE - Unless otherwise specified hoist control activities are performed on Hoist Control (107-PC-07-004). Controls must be activated until associated indicator illuminates. Reference Attachment 1: Hoist Control Functions.

9. PERFORM the following with Hoist Control:
 - a. POSITION HOIST above puck (unless already there).
 - b. OPEN LIFTER jaws.
 - c. LOWER HOIST over puck.
 - d. CLOSE LIFTER on puck.
 - e. RAISE HOIST (and puck) until "RAISED LIMIT" LED illuminates.
10. SELECT in order:
 - a. "MAIN MENU" (unless already displayed).
 - b. "WEIGH MENU".
11. WAIT until OIU displays COMPACT DRUM WEIGHT value.

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NOTE - *Pucks are normally taken directly from receipt to load out, however at the discretion of the Operator or when overpack height or weight limitations will be exceeded, the puck is placed in storage for later retrieval (i.e. when a new overpack drum is at the exit port.)*

12. IF puck is to be moved to LOAD OUT,
THEN, GO to Section VII.D, MOVE PUCK FROM RECEIPT TO LOAD OUT.
13. IF puck is to be placed in STORAGE,
THEN:
 - a. RECORD puck weight on temporary data sheet.
 - b. GO to Section VII.E, MOVE PUCK FROM RECEIPT TO STORAGE.

D. MOVE PUCK FROM RECEIPT TO LOAD OUT

1. VERIFY measured puck height is within available drum space.
2. OBSERVE "COMPACT DRUM WEIGHT" and "CUMULATIVE WEIGHT".
3. IF either of the following are TRUE,
THEN, GO to Section VII.E, MOVE PUCK FROM RECEIPT TO STORAGE.
 - a. Puck height exceeds available drum space.

NOTE - *Documented calculation is not required. PCS gives warning message when ADD TO CUMULATIVE is selected, if weight exceeds maximum allowable.*

- b. "COMPACT DRUM WEIGHT" plus "CUMULATIVE WEIGHT" is greater than 1000 pounds.
4. SELECT "ADD TO CUMULATIVE".
5. IF OIU displays "CUMULATIVE WEIGHT EXCEEDED",
THEN, GO to Section VII.E, MOVE PUCK FROM RECEIPT TO STORAGE.
6. SELECT in order:
 - a. "MAIN MENU" (unless already displayed).
 - b. "TROLLEY MENU".
 - c. "LOAD OUT".

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7. PERFORM the following with Hoist Control:
 - a. POSITION TROLLEY (puck) above overpack drum at LOAD OUT.
 - b. LOWER HOIST (puck) into overpack drum.
 - c. OPEN LIFTER jaws.
 - d. RAISE HOIST until "RAISED LIMIT" LED illuminates.
8. GO TO Section VII.G, RECORD COMPACT DRUM (PUCK) DATA.
- E. MOVE PUCK FROM RECEIPT TO STORAGE

NOTE - *Storage Position 3 does not exist.*

1. SELECT puck storage location on TROLLEY MENU screen:
 - STORAGE POSITION 1
 - STORAGE POSITION 2
2. PERFORM the following with Hoist Control:
 - a. POSITION TROLLEY (puck) above selected storage location.
 - b. LOWER HOIST (puck) onto storage table.
 - c. OPEN LIFTER jaws.
 - d. RAISE HOIST until "RAISED LIMIT" LED illuminates.
3. IF another puck is to be placed in overpack or storage.
THEN, REPEAT Sections VII.C through VII.G as applicable.
OTHERWISE, GO TO Section VII.H, REMOVE OVERPACK FROM GLOVEBOX.

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F. MOVE PUCK FROM STORAGE TO LOAD OUT

1. SELECT puck with height/weight compatible to available drum space.
2. SCAN the following:
 - a. Storage Location (2Y) barcode of selected puck.
 - b. Barcode on selected puck.
 - c. "YEND" barcode on side of glovebox.
 - d. "YYES" barcode.
- (M) 3. IF OIU displays "PIN MIS-MATCH",
THEN, NOTIFY DOS.
4. SELECT in order:
 - a. "MAIN MENU" (unless already displayed)
 - b. "TROLLEY MENU"
 - c. "STORAGE POSITION X" (X is position of puck to be moved)
5. PERFORM the following with Hoist Control:
 - a. OPEN LIFTER jaws.
 - b. LOWER LIFTER onto puck.
 - c. CLOSE LIFTER jaws.
 - d. RAISE HOIST until "RAISED LIMIT" LED illuminates.
6. SELECT in order:
 - a. "MAIN MENU" (unless already displayed)
 - b. "WEIGH MENU"
7. WAIT for display "COMPACT DRUM WEIGHT" value.
8. SELECT "ADD TO CUMULATIVE".

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9. IF OIU displays "CUMULATIVE WEIGHT EXCEEDED",
THEN:
 - a. PERFORM the following with Hoist Control:
 - (1) LOWER HOIST (puck) back to storage table.
 - (2) OPEN LIFTER jaws.
 - (3) RAISE HOIST until "RAISED LIMIT" LED illuminates.
 - b. SELECT another puck from storage or receipt, as applicable.
 10. SELECT on in order:
 - a. "MAIN MENU" (unless already displayed).
 - b. "TROLLEY MENU".
 - c. "LOAD OUT".
 11. VERIFY display "TROLLEY MOVING TO LOADOUT POSITION".
 12. WAIT for display "TROLLEY AT LOADOUT POSITION".
 13. PERFORM the following with Hoist Control:
 - a. POSITION TROLLEY (puck) above overpack drum at LOAD OUT.
 - b. LOWER HOIST (puck) into overpack drum.
 - c. OPEN LIFTER jaws.
 - d. RAISE HOIST until "RAISED LIMIT" LED illuminates.
 14. GO TO Section VII.G, RECORD COMPACT DRUM (PUCK) DATA.
- G. RECORD COMPACT DRUM (PUCK) DATA
1. SELECT "Refresh" on LLW Exit Glovebox screen
AND CONFIRM puck PIN is displayed.
 2. ENTER the correct height if the puck height is different than
the displayed default value.
 3. IF another puck is to be placed in overpack or storage.
THEN, REPEAT Sections VII.C through VII.G as applicable.
OTHERWISE, GO TO Section VII.H, REMOVE OVERPACK FROM GLOVEBOX.

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H. REMOVE OVERPACK FROM GLOVEBOX

1. RECORD information pertaining to the waste in the loadout drum using the LLW Exit Glovebox screen on DMS terminal TE-12-103:
 - a. ENTER signature password.
 - b. SELECT "Sum Waste Records" button.
 - c. ENTER Waste Description.
 - d. MODIFY primary waste type and hazardous waste storage category for the drum, as required.
 - e. ENTER void filler code and filler weight, as applicable.
 - f. ENTER signature password.
 - g. SELECT "Commit" button.
2. ENSURE area around port sealing surface is free of debris.
3. SELECT in order:
 - a. "MAIN MENU" (unless already displayed).
 - b. "EXIT PORT MENU".
 - c. "~~CLOSE & RELID~~". *CLOSE PORT*
4. VERIFY OIU displays "PORT CLOSING...".
5. WAIT for display "PORT CLOSED".
6. SELECT "START DRUM EXIT".
7. VERIFY display "DRUM EXIT IN PROGRESS...".
8. WAIT for display "DRUM EXIT COMPLETE".
9. REQUEST RCT survey drum for contamination.
 - a. IF drum is contaminated,
THEN, decontaminate as directed.
 - b. RESURVEY drum.
10. ENTER surface beta-gamma dose rate on DMS screen DMSS0315:

(R)

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11. REINSTALL clamp band on overpack drum as follows:

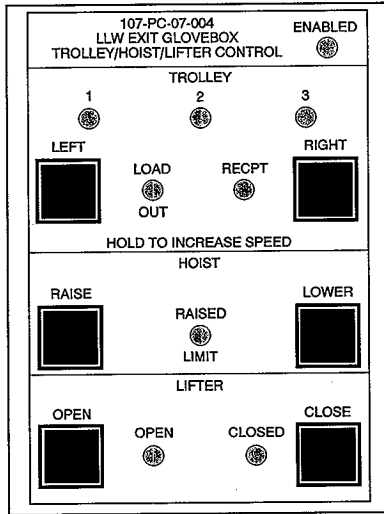
*NOTE - Manual Lift table operation is performed per
WRP1-OP-0703, Glovebox Lift Table Operation.*

- a. LOWER Lift Table as required.
 - b. REINSTALL clamp band.
 - c. RAISE Lift Table to AGV LOAD HEIGHT.
 - d. RETURN Lift Table to NORMAL operation.
12. SELECT "DRUM READY FOR PICK-UP".
13. VERIFY display "DRUM PICKUP IN PROGRESS".

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ATTACHMENT 1: TROLLEY/HOIST/LIFTER CONTROL FUNCTIONS



107-PC-07-004, LLW EXIT GLOVEBOX TROLLEY/HOIST/LIFTER CONTROL	
CONTROL SWITCHES	
SWITCH	FUNCTION
LEFT / RIGHT	MOVE HOIST TROLLEY LEFT / RIGHT
RAISE / LOWER	RAISE / LOWER HOIST
OPEN / CLOSE	OPEN / CLOSE LIFTER JAWS
INDICATORS	
1, 2, 3	HOIST LOCATED ABOVE STORAGE POSITION 1 / 2 / 3
LOAD OUT	HOIST MOVES PUCK FROM STORAGE POSITION. OVER LOAD OUT POSITION AND LOWERS INTO OVERPACK DRUM
RECPT	HOIST LOCATED ABOVE COMPACT PUCK RECEIPT POSITION
RAISE LIMIT	HOIST RAISED TO UPPER HEIGHT LIMIT
OPEN / CLOSED	LIFTER JAWS OPEN / CLOSED

WRAP 1 PLANT OPERATING PROCEDURE

SYSTEM: PROCESS

LOW LEVEL WASTE GLOVEBOX LINE MANUAL OPERATION (HNF-SD-W026-OTP-015)

I. SYSTEM DESCRIPTION

This procedure provides instructions for manual (Operator Interface Unit (OIU) Maintenance Menu) operation of each glovebox (Entry, Sorting, Exit) in the Low Level Waste (LLW) Glovebox Line.

In Manual (Maintenance) mode automatic operations normally performed by the Plant Control System (PCS) may be individually actuated. This allows correction of interlock conflicts, time-outs or other out-of-sequence conditions which prevent the normal sequence of events from proceeding. Once prohibiting conditions are corrected, automatic operation is resumed.

Maintenance Menus of the OIU are password protected and Duty Operation Supervisor (DOS) permission is required for activation. Depending on the situation, the DOS may simply correct a single prohibiting condition and return the system to normal, or in cases of numerous problems such as might occur after an Emergency Stop or power loss, the DOS may activate the maintenance mode and request additional assistance for the Operator (i.e., Cognizant Engineer).

This procedure addresses each OIU function individually and is not intended to govern sequence of operations. Sequence of operations, hold points and non-OIU related activities are governed by applicable glovebox operating procedures. Attachment 4, Tables 1 through 3, define interlock and permissive signals in each glovebox and reference procedure sections or other procedures which manipulate the indicated source switch for the interlock or permissive. When a function will not actuate, applicable interlocks should be verified to the proper state, then the function rechecked. If all interlocks are properly verified and a function will still not actuate, maintenance is required.

II. REFERENCE DOCUMENTS

WRP1-OP-0703, Glovebox Lift Table Operation.
WRP1-OP-0701, Glovebox Housekeeping.
WRP1-OP-0704, Waste Manipulator Operation
WRP1-OP-0705, Bagless Transfer Manual Operation
WRP1-OP-0706, Packet NDE Operation

WRP1-OP-0713, LLW Entry Glovebox Operation.
WRP1-OP-0714, LLW Sorting Glovebox Operation.
WRP1-OP-0716, LLW Exit Glovebox Operation.

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III. PRESTART CONDITIONS

All personnel performing this procedure shall be qualified in accordance with WHC-CM-5-34, Section 1.8, "Training Plan," and on-the-job training.

Process area Heating, Ventilation, Air Conditioning (HVAC) in OPERATION.

IV. SAFETY

Potential hazards, such as lifting heavy containers or handling sharp objects present in waste containers, must be mitigated by protective equipment, procedures, and administrative controls to ensure acceptable-risk operating conditions.

Consult with Operations Management and Industrial Hygiene, and refer to the Job Hazards Analysis (JHA), Radiological Work Permit (RWP) and Material Safety Data Sheets (MSDS) to determine required Personal Protective Equipment (PPE).

This procedure requires accessing gloveboxes through gloveports on a regular basis. Operators shall perform self survey upon exiting gloveport after each use. Radiological Control Technician (RCT) shall be contacted anytime self survey limits are exceeded.

Spills inside gloveboxes shall be cleaned up per WRP1-OP-0701, Glovebox Housekeeping.

CAUTION - When an OIU is in maintenance mode, most interlocks and safety features are bypassed. It is possible to damage equipment, and/or bypass safety restrictions such as glovebox containment. Caution must be exercised to prevent unwanted violation of operational safety requirements or equipment damage.

WARNING - Use care to prevent injury. Possible safety hazards include:

- Tripping/Slipping
- Radiological Contamination
- Interference with Automatic Guided Vehicle (AGV)

WARNING - Improper operation of glovebox equipment including hoist, sorting table, manipulators, transfer car, etc. may cause injury. Caution must be exercised if reaching through gloveports while equipment is in operation.

V. TOOLS AND SUPPLIES

None.

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VII. PROCEDURE (LLW ENTRY GLOVEBOX)

WARNING

IMPROPER OPERATION OF GLOVEBOX EQUIPMENT INCLUDING HOIST, SORTING TABLE, MANIPULATORS, TRANSFER CAR, ETC. MAY CAUSE INJURY. CAUTION MUST BE EXERCISED IF REACHING THROUGH GLOVEPORTS WHILE EQUIPMENT IS IN OPERATION.

CAUTION

WHEN AN OIU IS IN MAINTENANCE MODE, MOST INTERLOCKS AND SAFETY FEATURES ARE BYPASSED. IT IS POSSIBLE TO DAMAGE EQUIPMENT, AND/OR BYPASS SAFETY RESTRICTIONS SUCH AS GLOVEBOX CONTAINMENT. CAUTION MUST BE EXERCISED TO PREVENT VIOLATION OF OPERATIONAL SAFETY REQUIREMENTS OR EQUIPMENT DAMAGE.

- NOTE 1 - In Maintenance mode, OIU selections must be selected (screen touched) until the actuated device is visually verified to have reached the desired state.*
- NOTE 2 - Gloveports and manipulators are used as needed to perform tasks throughout this procedure. Manipulator Operation is performed per WRP1-OP-0704, Glovebox Manipulator Operation.*
- NOTE 3 - Data Management System (DMS) actions throughout this procedure are performed on DMS Terminal (107-TE-12-103).*
- NOTE 4 - UNLESS OTHERWISE SPECIFIED, selections and displays in Section VII are on LLW Entry Operator Interface Unit (OIU-12-103A).*
- NOTE 5 - Lift Table 107-LT-09-202A controls and indicators in Section VII are located on Lift Table Control Pedestal 107-PC-09-202A. Manual Lift table operation is performed per WRP1-OP-0703, Glovebox Lift Table Operation.*
- NOTE 6 - Hoist activities in Section VII are performed on Hoist Control (107-PC-07-001). Functions must be activated until associated indicator illuminates. Reference Attachment 1.*

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

A. INITIALIZE ENTRY GLOVEBOX

NOTE - Assumes Auto Initialization failed.

1. SELECT "DIAGNOSTICS MENU".

(PCS)

Displays failed parameters in red, with negative messages and passed parameters in green with positive message.

2. OBSERVE diagnostic menu messages (Reference Table VII-1 on the following page).
3. ACCESS MAINTENANCE MENU screens per applicable sections of this procedure, to reset diagnostic flags as required.
4. VERIFY desired diagnostic flags are reset by performing the following:
 - a. RETURN to "MAINTENANCE MAIN MENU".
 - b. SELECT "DIAGNOSTICS MENU".
 - c. VERIFY display "PASS".
 - d. SELECT "MAIN MENU".
 - e. VERIFY display "SYSTEM INITIALIZED".
 - f. GO TO desired section(s).

NOTE - Sections VII.C through VII.L assume Maintenance Main Menu has been accessed per Section VII.B.

B. ACCESS ENTRY GLOVEBOX MAINTENANCE MENUS

1. PLACE ^{LCW ENTRY GLOVEBOX} DMS keyswitch (107-07-HS-316) in "MAINTENANCE".
2. VERIFY display ^{AT DMS PEDestal 107-75-12-103} "MAINTENANCE ACCESS MENU".
3. KEY in maintenance password, THEN, PRESS "ENTER".
4. VERIFY display "MAINTENANCE MAIN MENU".
5. SELECT desired maintenance submenu(s).
6. WHEN desired, RETURN to Operating Menus as follows:
 - a. IF at any maintenance submenu, THEN, PRESS "MAINT MAIN MENU".
 - b. PLACE DMS keyswitch (~~107~~-07-HS-316) to "AUTO".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

TABLE VII-1: ENTRY GLOVEBOX INITIALIZATION INTERLOCKS

INITIALIZATION MESSAGE (failed)	SIGNAL SOURCE
DO-07-101 CENTERING CLAMPS NOT RETRACTED	07-ZS-0712A/0712B
LT-09-202A M/O/N NOT IN NORMAL	07-HS-233A
LT-09-202A LIFT TABLE NOT AT AGV HEIGHT	07-ZS-233G
DO-07-101 PORT DOOR NOT CLOSED AND LOCKED	07-ZSC-700A/700B
DO-07-101 VACUUM NOT RELEASED	07-PS-0703
CR-07-101A HOIST NOT RAISED	07-ZS-702C
DH-07-101 LIFTER NOT OPEN	07-ZS-704
CR-07-101A HOIST NOT AT TRANSFER PORT	07-ZS-702A/702B
DO-07-102 PORT DOOR NOT CLOSED	07-ZSC-705
DO-07-102 PORT DOOR SEAL NOT INFLATED	07-PSL-700
Messages indicate positive or opposite state if criteria passed	

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTR-015)

C. OPERATE ENTRY GLOVEBOX HOIST (107-CR-07-101A)

NOTE - *Manual hoist operation is performed the same as in Automatic Mode, except hoist control is continuously enabled.*

1. OPERATE hoist as required for glovebox tasks or maintenance.

D. MATE OVERPACK DRUM TO ENTRY PORT (107-DO-07-101)

1. REMOVE clamp band.
2. OPERATE Lift Table to position drum at "DRUM UNDER PORT".
3. SELECT in order, as required:
 - "DRUM ENTRY/EXIT PORT MAINTENANCE MENU".
 - "RETRACT CENTERING CLAMPS".
4. RAISE Lift Table to "DRUM CENTERING HEIGHT" as indicated by the local arrow labels.
5. SELECT "EXTEND CENTERING CLAMPS".
6. VERIFY display, "CENTERING CLAMPS EXTENDED".
7. RAISE Lift Table to "LID IN POSITION HEIGHT".
8. SELECT "MAINT MAIN MENU"

E. ~~MATE SINGLE DRUM TO ENTRY/EXIT PORT (107-DO-07-101)~~

1. ~~POSITION 55 gal drum centering spacer.~~
2. ~~OPERATE Lift Table to position drum at "DRUM UNDER PORT".~~
3. ~~SELECT in order, as required:~~
 - ~~"DRUM ENTRY/EXIT PORT MAINTENANCE MENU".~~
 - ~~"RETRACT CENTERING CLAMPS".~~
4. ~~RAISE Lift Table to "LID IN POSITION HEIGHT".~~
5. ~~SELECT "MAINT MAIN MENU".~~

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

F. OPEN ENTRY PORT (107-DO-07-101) (OVERPACK DRUM)

1. SELECT in order as required:
 - "DRUM ENTRY/EXIT PORT MAINTENANCE MENU".
 - "TURN ON VACUUM".
 - "UNLOCK PORT".

NOTE - Steps VII.F.2, VII.F.5, IX.E.8 and VII.F.4 are performed concurrently.

2. PRESS and HOLD "OPEN VENTS" on OIU-12-103A.
3. VERIFY display "VENT SOLENOID ACTIVATED".
4. RAISE Lift Table until port door lifts ~1/2 inch.
5. RELEASE "OPEN VENTS" on OIU-12-103A.
6. SELECT "RAISE DOOR".
7. VERIFY display "DOOR RAISED".
8. SELECT "ROTATE PORT OPEN".
9. VERIFY display "PORT ROTATED OPEN".
10. SELECT "MAINT MAIN MENU".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

- G. OPEN ENTRY PORT (107-DO-07-101) (SINGLE DRUM)
1. SELECT "DRUM ENTRY/EXIT PORT MAINTENANCE MENU".
 2. PRESS and HOLD "OPEN VENTS" on OIU-12-103A.
 3. VERIFY display "VENT SOLENOID ACTIVATED".
 4. SELECT "UNLOCK PORT".
 5. VERIFY display "PORT UNLOCKED".
 6. RELEASE "OPEN VENTS" on OIU-12-103A.
 7. SELECT "RAISE DOOR".
 8. VERIFY display "DOOR RAISED".
 9. SELECT "ROTATE PORT OPEN".
 10. VERIFY display "PORT ROTATED OPEN".
 11. RAISE Lift Table until drum is at desired height.
 12. SELECT "MAINT MAIN MENU".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

- H. CLOSE ENTRY PORT (107-DO-07-101) (OVERPACK DRUM)
1. SELECT "DRUM ENTRY/EXIT PORT MAINTENANCE MENU".
 2. SELECT "ROTATE PORT CLOSED".
 3. VERIFY display "PORT ROTATED CLOSED".
 4. SELECT "LOWER DOOR".
 5. VERIFY display, "DOOR LOWERED".
 6. SELECT "TURN OFF VACUUM".
 7. VERIFY display "TURN ON VACUUM" (e.g., no VACUUM GENERATED display).
 8. SELECT "EXTEND LID DETACH".
 9. VERIFY display "EXTEND SOLENOID ACTIVATED".
 10. SELECT "RETRACT LID DETACH".
 11. VERIFY display "RETRACT SOLENOID ACTIVATED".
 12. LOWER Lift Table to "DRUM CENTERING HEIGHT" as indicated by the local arrow labels.
 13. SELECT "LOCK PORT".
 14. VERIFY display "PORT LOCKED".
 15. SELECT "MAINT MAIN MENU".
- I. CLOSE ENTRY PORT (107-DO-07-101) (SINGLE DRUM)
1. SELECT "DRUM ENTRY/EXIT PORT MAINTENANCE MENU".
 2. SELECT "ROTATE CLOSE PORT".
 3. VERIFY display "PORT ROTATED CLOSED".
 4. SELECT "LOCK PORT".
 5. VERIFY display "PORT LOCKED".
 6. SELECT "MAINT MAIN MENU".
 7. LOWER Lift Table to "AGV LOAD HEIGHT".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

- J. REMOVE OVERPACK DRUM FROM ENTRY PORT (107-DO-07-101)
1. LOWER Lift Table to "AGV LOAD HEIGHT".
 2. MOVE drum to "DRUM AT AGV END" position.
- K. OPEN TRANSFER PORT (107-DO-07-102)
1. ENSURE Entry Port (107-DO-07-101) is CLOSED & LOCKED.
 2. SELECT "DRUM TRANSFER PORT MAINTENANCE MENU".
 3. SELECT "OPEN ISOLATION VALVE".
 4. VERIFY display "~~OPEN SOLENOID ACTIVATED~~".
 5. SELECT "DEFLATE SEAL".
 6. VERIFY display "SEAL DEFLATED".
 7. SELECT "OPEN PORT".
 8. VERIFY[↑] port OPEN.
 9. SELECT "MAINT MAIN MENU".
- L. CLOSE TRANSFER PORT (107-DO-07-102)
1. SELECT "DRUM TRANSFER PORT MAINTENANCE MENU".
 2. SELECT "CLOSE ISOLATION VALVE".
 3. VERIFY display "~~CLOSE SOLENOID ACTIVATED~~".
 4. SELECT "INFLATE SEAL".
 5. VERIFY display "SEAL INFLATED".
 6. SELECT "~~CLOSE PORT~~".
 7. VERIFY display "PORT CLOSED".
 8. SELECT "MAINT MAIN MENU".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

VIII. PROCEDURE (LLW SORTING GLOVEBOX)

WARNING

IMPROPER OPERATION OF GLOVEBOX EQUIPMENT INCLUDING HOIST, SORTING TABLE, MANIPULATORS, TRANSFER CAR, ETC. MAY CAUSE INJURY. CAUTION MUST BE EXERCISED IF REACHING THROUGH GLOVEPORTS WHILE EQUIPMENT IS IN OPERATION.

CAUTION

WHEN AN OIU IS IN MAINTENANCE MODE, MOST INTERLOCKS AND SAFETY FEATURES ARE BYPASSED. IT IS POSSIBLE TO DAMAGE EQUIPMENT, AND/OR BYPASS SAFETY RESTRICTIONS SUCH AS GLOVEBOX CONTAINMENT. CAUTION MUST BE EXERCISED TO PREVENT UNWANTED VIOLATION OF OPERATIONAL SAFETY REQUIREMENTS OR EQUIPMENT DAMAGE.

- NOTE 1 - *In Maintenance mode, OIU selections must be selected (screen touched) until the actuated device is visually verified to have reached the desired state.*
- NOTE 2 - *Manual operation of Bagless Transfer Port 107-DO-07-105 is performed per WRP1-OP-0705, Bagless Transfer Manual Operation.*
- NOTE 3 - *UNLESS OTHERWISE SPECIFIED, selections and displays in Section VIII are on LLW Sorting Operator Interface Unit (OIU-12-103B).*
- NOTE 4 - *Lift Table 107-LT-09-203A controls and indicators in Section VIII are located on Lift Table Control Pedestal 107-PC-09-203A. Manual Lift table operation is performed per WRP1-OP-0703, Glovebox Lift Table Operation.*
- NOTE 5 - *Hoist activities in Section VIII are performed on Hoist Control (107-PC-07-003A or 003B). Active controller is selected by switch on 107-PC-07-003A. Functions must be activated until associated indicator illuminates. Reference Attachment 2.*

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

A. INITIALIZE SORTING GLOVEBOX

NOTE - Assumes Auto Initialization failed.

1. SELECT "INITIAL DIAGNOSTICS".

(PCS)

Displays failed parameters in red, with negative messages and passed parameters in green with positive message.

2. OBSERVE fault messages (Reference Table VIII-1 on the following page).
3. ACCESS MAINTENANCE MENU screens per applicable sections of this procedure, as necessary to correct indicated initialization faults.
4. WHEN all faults have been corrected:
 - a. RETURN to Operating Menus.
 - b. SELECT "MAIN MENU".
 - c. VERIFY display "SYSTEM INITIALIZED".
 - d. GO TO desired section(s).

NOTE - Sections VIII.C through VIII.O assume Maintenance Main Menu has been accessed per Section VIII.B.

B. ACCESS SORTING GLOVEBOX MAINTENANCE MENUS

1. PLACE DMS keyswitch (107-07-HS-317) to "MAINTENANCE".
2. VERIFY display "MAINTENANCE ACCESS MENU".
3. KEY in maintenance password,
THEN, PRESS "ENTER".
4. VERIFY display "SORTING GLOVEBOX MAINTENANCE MAIN MENU".
5. SELECT desired maintenance submenu(s).
6. WHEN desired,
RETURN to Operating Menus as follows:
 - a. IF at any maintenance submenu,
THEN, PRESS "MAINT MAIN MENU".
 - b. PLACE DMS keyswitch (107-07-HS-317) to "AUTO".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

TABLE VIII-1: SORTING GLOVEBOX INITIALIZATION INTERLOCKS

INITIALIZATION MESSAGE (failed)	SIGNAL SOURCE
RT-07-101 FIXTURE ROTATION HEAD NOT PARKED	07-ZS-727A
DO-07-105 BAGLESS XFER PORT NOT CLOSED	PORT CONTROL LOGIC RELAY, DO-07-105/CS
TC-07-101 TRANSFER CAR NOT AT ENTRY	07-ZS-710
ST-07-101 TABLE NOT IN LOWERED POSITION	07-ZS-716A/716B
ST-07-101 TABLE NOT FULLY RETRACTED	07-ZS-717C
DH-07-103 TIPPER NOT RAISED	07-ZS-332A
DH-07-103 TIPPER NOT IN VERTICAL POSITION	07-ZS-333
DH-07-103 DRUM GRAB NOT OPEN	07-ZS-720B
RT-07-101 FIXTURE NOT AT PARK/RELID POSITION	07-ZS-728A
RT-07-101 FIXTURE NOT RAISED	07-ZS-726A
RT-07-101 SAW NOT RETRACTED	07-ZS-742B
RT-07-101 SAW IS RUNNING	07-FEV-378A
RT-07-101 CRIMP HEAD IS NOT BACK	07-ZS-719A
RT-07-101 CRIMP JAWS NOT OPEN	07-ZS-721
TC-07-101 TRANSFER CAR DRIVE NOT DE-ENERGIZED	107-TC-07-101/M1
ST-07-101 DRIVE ENGAGED	07-ZS-718A
LT-09-203A M/O/N SWITCH NOT IN NORMAL	07-HS-241A
CR-07-101C HOIST NOT AT LOADOUT	07-ZS-730A
CR-07-101C HOIST NOT RAISED	07-ZS-730C
EM-07-201 MANIPULATOR NOT PARKED	07-ZS-715A/715B
EM-07-201 MANIPULATOR ARMS NOT PARKED	07-ZS-715C/715D

Messages indicate positive or opposite state if criteria passed

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

C. OPERATE SORTING GLOVEBOX HOIST (107-CR-07-101C)

NOTE 1 - *Manual hoist operation is performed the same as in Automatic Mode, except hoist control is continuously enabled.*

NOTE 2 - *Hoist 107-CR-07-101B is for maintenance and is not used during normal operation. Its' controller functions the same as others.*

1. OPERATE hoist as required for glovebox tasks or maintenance.

D. OPEN/CLOSE BAGLESS TRANSFER PORT (107-DO-07-105)

1. ENSURE hoist 107-CR-07-101C is at "RAISED LIMIT".
2. ENSURE hoist 107-CR-07-101C TROLLEY is at "LOAD".
3. OPERATE port per WRP1-OP-0705, Bagless Transfer Manual Operation.

E. MOVE DRUM TRANSFER CAR (107-TC-07-101)

1. ENSURE manipulators and manipulator arms are PARKED.
2. ENSURE ladder/delidder is RAISED.
3. ENSURE drum tipper is RAISED.
4. SELECT "DRUM TRANSFER CAR AND MISCELLANEOUS EQUIPMENT MAINTENANCE MENU".
5. PERFORM on "DRUM TRANSFER CAR" submenu:
 - a. IF display "TRANSFER CAR STOP ENGAGED" is present, THEN SELECT "DISENGAGE TRANSFER CAR STOP".
 - b. SELECT one of the following until car nears destination:
 - "MOVE LEFT" (move toward entry port).
 - "MOVE RIGHT" (move toward transfer port).
 - c. WHEN the Transfer Car is in the desired position, THEN SELECT "ENGAGE TRANSFER CAR STOP".
6. SELECT "MAINT MAIN MENU".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

F. MOVE OR ROTATE DRUM LID/DELID FIXTURE (107-RT-07-101)

1. ENSURE manipulators and manipulator arms are PARKED.
2. SELECT "DRUM LID/DELID FIXTURE MAINTENANCE MENU".

NOTE - *The displays shown in parentheses below are the alternate states for the indicated buttons.*

3. SELECT on "DELID FIXTURE" submenu as required:

- | | | |
|----|---------------------|----------------------------------|
| ✓• | "RAISE FIXTURE" | (FIXTURE RAISED) |
| ✓• | "LOWER FIXTURE" | (FIXTURE LOWERED) |
| ✓• | "MOVE LEFT" | (FIXTURE AT DELID POSITION) |
| ✓• | "MOVE RIGHT" | (FIXTURE AT PARK/RELID POSITION) |
| ✓• | "ROTATE CLOCKWISE" | (ROTATING CLOCKWISE) |
| ✓• | "ROTATE COUNTER-CW" | (ROTATING COUNTER CLOCKWISE) |

4. SELECT "MAINT MAIN MENU".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

G. OPERATE LID/DELID SAW

CAUTION

MANIPULATORS MUST BE CLEAR OF SAW OPERATING AREA.

1. ENSURE manipulators and manipulator arms are PARKED.

NOTE - *Cut positions are selected as needed to saw through clamp band without hitting clamp band bolt.*

2. ROTATE lid/delid fixture to desired cut position.
3. LOWER lid/delid fixture onto drum.

CAUTION

BAND HALVES MUST BE HELD WITH MANIPULATORS AFTER FIRST CUT IS MADE.

4. IF second cut,
THEN, GRIP band halves with manipulators.
5. SELECT "DRUM LID/DELID FIXTURE MAINTENANCE MENU".

NOTE - *Steps VIII.G.6 through VIII.G.17 below are accomplished using "LID/DELID SAW" submenu.*

6. SELECT "TURN ON INERT GAS".
7. VERIFY display "INERT GAS ON".
8. SELECT "EXTEND SAW".
9. VERIFY display "SAW EXTENDED".
10. SELECT "TURN ON SAW".
11. VERIFY display "SAW ON".
12. WHEN clamp band is completely cut,
SELECT "RETRACT SAW".
13. VERIFY display "SAW RETRACTED".
14. SELECT "TURN OFF SAW".
15. VERIFY display "SAW OFF".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

16. SELECT "TURN OFF INERT GAS"
17. VERIFY display "INERT GAS OFF".
18. RAISE lid/delid fixture.
19. REPEAT Steps VIII.G.2 through VIII.G.18 for each cut.
20. SELECT "MAINT MAIN MENU".

H. DELID WASTE DRUM

1. ENSURE clamp band is cut and removed.
2. ENSURE manipulators and manipulator arms are PARKED.
3. SELECT "DRUM LID/DELID FIXTURE MAINTENANCE MENU"
4. LOWER lid/delid fixture onto drum.
5. SELECT on "LID LIFTER" submenu in order:

NOTE - Steps VIII.H.6 through VIII.H.9 below are accomplished using "LID/DELID SAW" submenu.

- ~~6. SELECT "OPEN ISOLATION VALVE".~~
- ~~7. VERIFY display "ISOLATION VALVE OPEN".~~
8. SELECT "TURN ON VACUUM".
9. VERIFY display "VACUUM GENERATED".
10. RAISE lid/delid fixture.
11. MOVE lid/delid fixture to relid/park position.
12. SELECT "MAINT MAIN MENU".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

I. RELID WASTE DRUM

1. ENSURE manipulators and manipulator arms are PARKED.
2. LOWER lid/delid fixture onto drum.
3. SELECT "DRUM LID/DELID FIXTURE MAINTENANCE MENU".

NOTE - Steps VIII.I.4 through VIII.I.8 below are accomplished using "LID LIFTER" submenu.

4. SELECT "TURN OFF VACUUM".
5. VERIFY display "~~VACUUM RELEASED~~".
6. SELECT "~~CLOSE ISOLATION VALVE~~".
7. ~~VERIFY display "ISOLATION VALVE CLOSED".~~
8. RAISE lid/delid fixture.

NOTE - Step VIII.I.9 may be skipped if lid is to be c-cripped.

9. SELECT "MAINT MAIN MENU".

J. C-CLIP AND CRIMP LID

1. ENSURE manipulators and manipulator arms are PARKED.
2. ENSURE drum lid is in place.

NOTE - Extra C-clips are stored on shelf inside glovebox, under Consumable Entry Port, on front side of glovebox.

3. MANUALLY PLACE C-clip in crimping device.
4. POSITION crimping device and C-clip on drum edge.
5. CRIMP C-clip by operating lever on side of crimping device.
6. ~~ROTATE~~ to next crimp position and repeat Steps VIII.J.3 through VIII.J.5 until all desired C-clips are in place on drum lid.

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

K. OPEN/CLOSE DRUM GRAB

1. ENSURE overbag is removed from drum, as applicable.
2. ENSURE manipulators PARKED in Position 1 and STOWED.
3. SELECT "SORTING TABLE/PACKET/DRUM TIPPER/DRUM GRAB MAINTENANCE MENU".
4. SELECT on "DRUM TIPPER" submenu, as required:
 - "OPEN GRAB" to release drum.
 - "CLOSE GRAB" to hold drum.
5. SELECT "MAINT MAIN MENU".

L. RAISE/LOWER/PARK DRUM TIPPER (107-DH-07-103)

1. ENSURE manipulators are in PARK POSITION #1.
2. SELECT "SORTING TABLE/PACKET/DRUM TIPPER/DRUM GRAB MAINTENANCE MENU".
3. SELECT on "DRUM TIPPER" submenu, as required:

NOTE - *Drum may be raised/lowered in intervals as necessary.
Tipper PARK is FULL UP position.*

- "RAISE TIPPER" until drum elevates to desired position.
 - "LOWER TIPPER" until drum lowers to desired position.
4. SELECT "MAINT MAIN MENU".

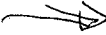
WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

M. ROTATE DRUM TIPPER (107-DH-07-103)

1. ENSURE manipulators are in PARK POSITION #1.
2. ENSURE drum tipper is raised FULL UP.
3. SELECT "SORTING TABLE/PACKET/DRUM TIPPER/DRUM GRAB MAINTENANCE MENU".

NOTE - Steps VIII.M.4 through VIII.M.8 below are performed from the "DRUM TIPPER" submenu.

- 
4. SELECT "ENABLE ROTATE JOYSTICK".
 5. VERIFY display "ROTATE JOYSTICK ENABLED".
 6. ROTATE grab right OR ROTATE grab left until tipper is at desired position.
 7. SELECT "DISABLE ROTATE JOYSTICK".
 8. VERIFY "ROTATE JOYSTICK DISABLE".
 9. SELECT "MAINT MAIN MENU".

N. EXTEND/RETRACT SORTING TABLE (107-ST-07-101)

1. ENSURE manipulators are PARKED above Lid/Delid Fixture.
2. SELECT "SORTING TABLE/PACKET/DRUM TIPPER/DRUM GRAB MAINTENANCE MENU".

NOTE - Steps VIII.N.3 through VIII.N.8 below are performed from the "SORTING TABLE" sub-menu.

3. SELECT "UNLOCK TABLE".
4. VERIFY display "TABLE UNLOCKED".
5. SELECT "EXTEND TABLE" OR "RETRACT TABLE" until table is at desired position.
6. SELECT "LOCK TABLE".
7. VERIFY display "TABLE LOCKED".
8. SELECT "MAINT MAIN MENU".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

0. RAISE/LOWER SORTING TABLE (107-ST-07-101)

1. ENSURE manipulators are PARKED above Lid/Delid Fixture.
2. SELECT "SORTING TABLE/PACKET/DRUM TIPPER/DRUM GRAB MAINTENANCE MENU".

NOTE - Steps through below are performed from the "SORTING TABLE" submenu.

3. SELECT "UNLOCK TABLE".
4. VERIFY display "TABLE UNLOCKED".
5. RAISE table OR LOWER table until table is at desired position.
6. SELECT "LOCK TABLE".
7. VERIFY display "TABLE LOCKED".
8. SELECT "MAINT MAIN MENU".

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

IX. PROCEDURE (LLW EXIT GLOVEBOX)

WARNING

IMPROPER OPERATION OF GLOVEBOX EQUIPMENT INCLUDING HOIST, SORTING TABLE, MANIPULATORS, TRANSFER CAR, ETC., MAY CAUSE INJURY. CAUTION MUST BE EXERCISED IF REACHING THROUGH GLOVEPORTS WHILE EQUIPMENT IS IN OPERATION.

CAUTION

WHEN AN OIU IS IN MAINTENANCE MODE, MOST INTERLOCKS AND SAFETY FEATURES ARE BYPASSED. IT IS POSSIBLE TO DAMAGE EQUIPMENT, AND/OR BYPASS SAFETY RESTRICTIONS SUCH AS GLOVEBOX CONTAINMENT. CAUTION MUST BE EXERCISED TO PREVENT UNWANTED VIOLATION OF OPERATIONAL SAFETY REQUIREMENTS OR EQUIPMENT DAMAGE.

- NOTE 1 - *In Maintenance mode, OIU selections must be selected (screen touched) until the actuated device is visually verified to have reached the desired state.*
- NOTE 2 - *UNLESS OTHERWISE SPECIFIED, selections & displays in Section IX are on LLW Exit Operator Interface Unit (OIU-12-103C).*
- NOTE 3 - *Lift Table 107-LT-09-202A controls and indicators in Section IX are located on Lift Table Control Pedestal 107-PC-09-202A. Manual Lift table operation is performed per WRP1-OP-0703, Glovebox Lift Table Operation.*
- NOTE 4 - *Hoist activities in Section IX are performed on Hoist Control (107-PC-07-004). Functions must be activated until associated indicator illuminates. Reference Attachment 3.*

WRAP 1 PLANT OPERATING PROCEDURE

(HNF-SD-W026-OTP-015)

A. INITIALIZE EXIT GLOVEBOX

NOTE - Assumes Auto Initialization failed.

1. SELECT "DIAGNOSTICS MENU".

(PCS)

Displays failed parameters in red, with negative messages and passed parameters in green with positive message.

2. OBSERVE fault messages (Reference Table IX-1).

3. ACCESS MAINTENANCE MENU screens per applicable sections of this procedure, as necessary to correct indicated initialization faults.

4. WHEN all faults have been corrected:

- a. RETURN to Operating Menus.
- b. SELECT "MAIN MENU".
- c. VERIFY display "SYSTEM INITIALIZED".
- d. GO TO desired section(s).

TABLE IX-1: EXIT GLOVEBOX INITIALIZATION INTERLOCKS

INITIALIZATION MESSAGE (failed)	SIGNAL SOURCE
DO-07-106 DOOR NOT CLOSED AND LOCKED	07-ZSC-765A/765B, 25-761A
DO-07-106 VACUUM EXISTS	07-PS-704
CR-07-101D HOIST NOT AT COMPACT RECEIPT	07-ZS-736B/736C/736D
CR-07-101D HOIST NOT RAISED	07-ZS-763A
CV-07-101M1/F CONVEYOR NOT DE-ENERGIZED	PCS OUTPUT
LT-09-202C M/O/N NOT IN NORMAL	07-HS-237A
DO-07-106 HVAC CONTROL SEAL NOT DEFLATED	07-PS-768
Messages indicate positive or opposite state if criteria passed	

WRAP 1 PLANT OPERATING PROCEDURE

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NOTE - Sections IX.C through IX.H assume Maintenance Main Menu has been accessed per Section IX.B.

B. ACCESS EXIT GLOVEBOX MAINTENANCE MENUS

1. PLACE DMS keyswitch (107-07-HS-318) to "MAINTENANCE".
2. VERIFY display "MAINTENANCE ACCESS MENU".
3. KEY in maintenance password,
THEN, PRESS "ENTER".
4. VERIFY display "MAINTENANCE MAIN MENU".
5. SELECT desired maintenance submenu(s).
6. WHEN desired,
RETURN to Operating Menus as follows:
 - a. IF at any maintenance submenu,
THEN, PRESS "MAINT MAIN MENU".
 - b. PLACE DMS keyswitch (107-07-HS-318) to "AUTO".

C. OPERATE EXIT GLOVEBOX HOIST (107-CR-07-101D)

NOTE - Manual hoist operation is performed the same as in Automatic Mode, except hoist control is continuously enabled.

1. OPERATE hoist as required for glovebox tasks or maintenance.

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D. MATE DRUM TO EXIT PORT (107-DO-07-106)

1. LOWER Lift Table as required.

2. REMOVE clamp band.

3. OPERATE Lift Table to position drum at "DRUM UNDER PORT".

4. ~~VERIFY~~ VERIFY CLIP IS IN MAINTENANCE MODE
SELECT "DRUM ENTRY/EXIT PORT MAINTENANCE MENU".

5. SELECT "RETRACT CENTERING CLAMPS".

6. VERIFY display "CENTERING CLAMPS RETRACTED".

7. RAISE Lift Table to "DRUM CENTERING HEIGHT". - $24\frac{7}{8}$

8. SELECT "EXTEND CENTERING CLAMPS".

9. VERIFY display "CENTERING CLAMPS EXTENDED".

10. RAISE Lift Table to "LID IN POSITION HEIGHT". - $25\frac{3}{8}$

Verify "CLIP IN POSITION" on OFU

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E. OPEN EXIT PORT (107-DO-07-106)

1. SELECT "DRUM EXIT/ENTRY PORT MAINTENANCE MENU"
2. SELECT "TURN ON VACUUM".
3. VERIFY display "VACUUM GENERATED".
4. SELECT "UNLOCK PORT".
5. VERIFY display "PORT UNLOCKED".

NOTE - Steps IX.E.6 and IX.E.7 are performed concurrently.

6. PRESS and HOLD "OPEN VENTS" on OIU.
7. RAISE Lift Table until port door lifts ~1/2 inch.
8. VERIFY - "DOOR IN POSITION" ON OIU.
8. RELEASE "OPEN VENTS" on OIU.
9. SELECT "RAISE DOOR".
10. VERIFY display "DOOR RAISED".
11. SELECT "ROTATE PORT OPEN".
12. VERIFY display "PORT ROTATED OPEN".
13. VERIFY port OPEN.
14. SELECT "MAINT MAIN MENU".

*UNTIL CENTER
LIGHT ON VENT
ILLUMINATED*

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F. OPERATE TRANSFER CAR CONVEYOR

1. SELECT "SORTING GLOVEBOX MAINTENANCE MAIN MENU".
2. SELECT "DRUM TRANSFER CAR AND MISCELLANEOUS EQUIPMENT MAINTENANCE MENU".

NOTE - Steps IX.F.3 through IX.F.10 are performed from the "TRANSFER CAR CONVEYOR" sub-menu.

3. SELECT "ENGAGE CONVEYOR".
4. VERIFY display "CONVEYOR ENGAGED".
5. SELECT "TURN CONVEYOR ON" (until destination is reached).
6. VERIFY display "CONVEYOR ON".
7. SELECT "TURN CONVEYOR OFF".
8. VERIFY display "CONVEYOR OFF".
9. SELECT "DISENGAGE CONVEYOR".
10. VERIFY display "CONVEYOR DISENGAGED".
11. SELECT "MAINT MAIN MENU".

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G. RELID OVERPACK DRUM & CLOSE EXIT PORT (107-DO-07-106)

1. ENSURE area around port sealing surface is free of debris.
2. SELECT "DRUM ENTRY/EXIT PORT MAINTENANCE MENU".
3. SELECT "ROTATE PORT CLOSED".
4. VERIFY display "PORT ROTATED CLOSED".
5. SELECT "LOWER DOOR".

6. VERIFY display "DOOR LOWERED".

7. SELECT "TURN OFF VACUUM".

8. VERIFY display "TURN ON VACUUM" (i.e., "VACUUM GENERATED" is ^{ON} ~~not~~ displayed.) *ILLUMINATED*

9. SELECT "EXTEND LID DETACH".

10. VERIFY display "EXTEND SOLENOID ACTIVATED".

11. SELECT "RETRACT LID DETACH".

12. VERIFY display "RETRACT SOLENOID ACTIVATED".

13. LOWER Lift Table to "DRUM CENTERING HEIGHT".

14. SELECT "LOCK PORT".

15. VERIFY display "PORT LOCKED".

16. VERIFY port CLOSED and LOCKED.

17. SELECT "MAINT MAIN MENU".

VERIFY SEAL DEFLATED

H. REMOVE OVERPACK DRUM FROM EXIT PORT (107-DO-07-106)

1. LOWER Lift Table to "DOWN OVERTRAVEL".
2. MOVE drum to "DRUM AT AGV END" position.
3. RAISE Lift Table to "AGV LOAD HEIGHT".

WRAP 1 PLANT OPERATING PROCEDURE

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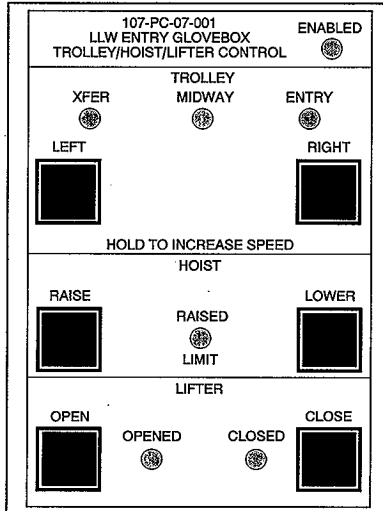
- I. MATE DRUM TO EXIT PORT (107-DO-07-106)
1. ENSURE drum clamp band is removed.
 2. OPERATE Lift Table to position drum at "DRUM UNDER PORT".
 3. SELECT "DRUM ENTRY/EXIT PORT MAINTENANCE MENU".
 4. SELECT "RETRACT CENTERING CLAMPS".
 5. VERIFY display "CENTERING CLAMPS RETRACTED".
 6. RAISE Lift Table to "DRUM CENTERING HEIGHT".
 7. SELECT "EXTEND CENTERING CLAMPS".
 8. VERIFY display "CENTERING CLAMPS EXTENDED".
 9. RAISE Lift Table to "LID IN POSITION HEIGHT".
 10. SELECT "MAINT MAIN MENU".

*Evaluate
Action*

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ATTACHMENT 1: ENTRY GLOVEBOX HOIST CONTROL FUNCTIONS

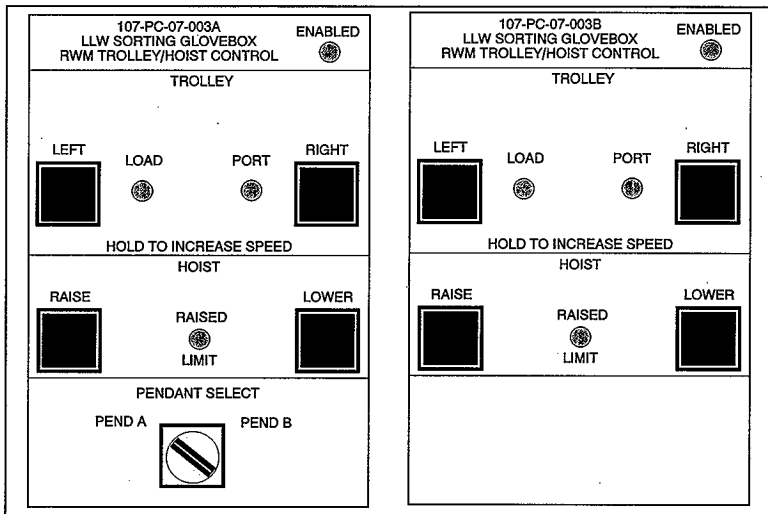


107-PC-07-001, LLW ENTRY GLOVEBOX TROLLEY/HOIST/LIFTER CONTROL	
CONTROL SWITCHES	
SWITCH	FUNCTION
LEFT / RIGHT	MOVE HOIST TROLLEY LEFT / RIGHT
RAISE / LOWER	RAISE / LOWER HOIST
OPEN / CLOSE	OPEN / CLOSE LIFTER JAWS
INDICATORS	
XFER	HOIST LOCATED ABOVE TRANSFER PORT 107-DO-07-102
MIDWAY	HOIST LOCATED AT "PCS CONTROLLED SWAB" POSITION
ENTRY	HOIST LOCATED ABOVE ENTRY/EXIT PORT 107-DO-07-101
RAISED LIMIT	HOIST RAISED TO UPPER HEIGHT LIMIT
OPENED / CLOSED	LIFTER JAWS OPENED / CLOSED

WRAP 1 PLANT OPERATING PROCEDURE

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ATTACHMENT 2: SORTING GLOVEBOX HOIST CONTROL FUNCTIONS



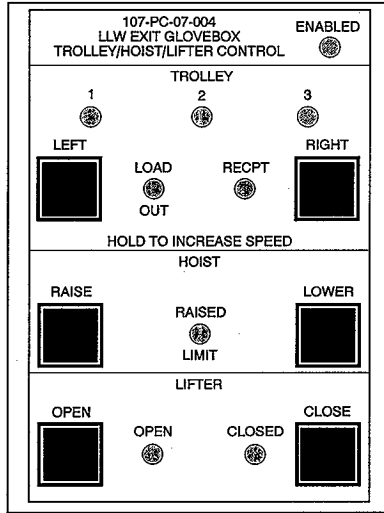
(107-PC-07-003A/003B) LLW SORTING GLOVEBOX RWM TROLLEY/HOIST/LIFTER CONTROL SWITCHES

SWITCH	FUNCTION
LEFT / RIGHT	MOVE HOIST TROLLEY LEFT / RIGHT
RAISE / LOWER	RAISE / LOWER HOIST
PENDANT SELECT (*)	SELECTS ACTIVE CONTROL (107-PC-07-003A or 003B)
NOTE (*): Active control is selected at Operator discretion.	
INDICATORS	
LOAD	HOIST AT TRANSFER STAND LOAD POSITION
PORT	HOIST LOCATED ABOVE RWM TRANSFER PORT (107-DO-07-105)
RAISED LIMIT	HOIST RAISED TO UPPER HEIGHT LIMIT

WRAP 1 PLANT OPERATING PROCEDURE

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ATTACHMENT 3: EXIT GLOVEBOX HOIST CONTROL FUNCTIONS



(107-PC-07-004) LLW EXIT GLOVEBOX TROLLEY/HOIST/LIFTER CONTROL	
CONTROL SWITCHES	
SWITCH	FUNCTION
LEFT / RIGHT	MOVE HOIST TROLLEY LEFT / RIGHT
RAISE / LOWER	RAISE / LOWER HOIST
OPEN / CLOSE	OPEN / CLOSE LIFTER JAWS
INDICATORS	
1, 2, 3	HOIST LOCATED ABOVE STORAGE POSITION 1 / 2 / 3 (NOTE: Physical Storage Position 3 Does Not Exist)
LOAD OUT	HOIST MOVES PUCK FROM STORAGE POSITION, OVER LOAD OUT POSITION AND LOWERS INTO OVERPACK DRUM
RECPT	HOIST LOCATED ABOVE COMPACT PUCK RECEIPT POSITION
RAISED LIMIT	HOIST RAISED TO UPPER HEIGHT LIMIT
OPEN / CLOSED	LIFTER JAWS OPEN / CLOSED

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ATTACHMENT 4: GLOVEBOX INTERLOCK SIGNALS

TABLE 1: ENTRY GLOVEBOX RELATED INTERLOCK SIGNALS		
SIGNAL SOURCE	DESCRIPTION	ADDITIONAL INTERLOCK INFORMATION
GENERAL ENTRY GLOVEBOX RELATED INTERLOCK SIGNALS		
PD1SL-333	GLOVEBOX DIFF PRESS TRIP	Procedure Sections: VII (all)
LIFT TABLE LT-09-202A RELATED INTERLOCK SIGNALS		
ZS-233E	DRUM AT AGV END OF LIFT TABLE	STOPS ALL PNEUMATIC HARDWARE IN GLOVEBOX
ZS-233F	LIFT TABLE (DRUM) UNDER GLOVEBOX	TABLE MUST BE AT AGV HEIGHT
ZS-233G	LIFT TABLE AT AGV HEIGHT	LIFT TABLE MUST BE LOWERED
PORT DO-07-101 RELATED INTERLOCKS SIGNALS		
ZSC-700A & B	PORT CLOSED AND LOCKED	PORT MUST BE CLOSED AND LOCKED AND DRUM CENTERING DEVICE RETRACTED
ZS-711	PORT DRUM LID IN POSITION	DRUM NOT IN ENTRY/EXIT PORT
ZS-703A	PORT DRUM DOOR CLOSED	
ZS-703B	PORT DOOR IN POSITION	
ZS-703C	PORT DRUM DOOR OPEN	
ZSC-701	PORT DOOR DOWN	HALTS SEQUENCE UNTIL ACTIVATED
ZS0-701	PORT DRUM PORT ROTATED	
PS-703	PORT LID VACUUM	
ZS0-712 A & B	DRUM CENTERING DEVICE EXTENDED	WITH SWITCHES DE-ENERGIZED
ZS0-712 A & B	DRUM CENTERING DEVICE RETRACTED	WITH SWITCHES ENERGIZED

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TABLE 1: ENTRY GLOVEBOX RELATED INTERLOCK SIGNALS		
SIGNAL SOURCE	DESCRIPTION	ADDITIONAL INTERLOCK INFORMATION
PORT D0-07-102 RELATED INTERLOCK SIGNALS		
ZSC-705	PORT D0-07-102 CLOSED	Procedure Sections: VII.K, L
ZSO-705	PORT D0-07-102 OPEN	
PSL-700	PORT D0-07-102 SEAL INFLATED	
PSLL-701	SEAL DEFLATED	
HOIST RELATED INTERLOCK SIGNALS		
Procedure Sections: VII.C		
ZS-702A	HOIST AT CENTER OF GLOVEBOX	DRUM LIFTER MUST BE RAISED
ZS-702A & B	HOIST ABOVE TRANSFER PORT D0-07-102	DRUM LIFTER MUST BE RAISED
ZS-702B	HOIST ABOVE ENTRY PORT D0-07-101	DRUM LIFTER MUST BE RAISED
ZS-702C	HOIST RAISED	
ZSO-704	DRUM LIFTER DH-07-101 JAWS OPEN	DRUM NOT IN LIFTER
ZSC-704	DRUM LIFTER JAWS CLOSED	

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TABLE 2: SORTING GLOVEBOX RELATED INTERLOCK SIGNALS		
SIGNAL SOURCE	DESCRIPTION	ADDITIONAL INTERLOCK INFORMATION
GENERAL SORTING GLOVEBOX RELATED INTERLOCK SIGNALS		
PDISL-341	GLOVEBOX DIFF PRESS TRIP	Procedure Sections: VIII (all) STOPS ALL PNEUMATIC HARDWARE IN GLOVEBOX
DRUM TIPPER RELATED INTERLOCK SIGNALS		
ZS-720A	DRUM TIPPER DRUM GRAB CLOSED	Procedure Sections: VIII.K, L
ZS-720B	DRUM TIPPER DRUM GRAB OPEN	
ZS-332A	DRUM TIPPER RAISED	
ZS-332B	DRUM TIPPER LOWERED	PERMISSIVES FOR DRUM TIPPER TO BE LOWERED: 1. TRANSFER CAR AT DELID POSITION 2. DRUM TIPPER RAISED 3. GRAB ROTATED VERTICAL 4. GRAB OPEN 5. SORTING TABLE RETRACTED 6. TIPPER MOTOR CLUTCH NOT TRIPPED
ZS-333	DRUM TIPPER, TIPPER VERTICAL	
ZS-335	DRUM TIPPER CLUTCH TRIPPED	
LIFT TABLE (107-LT-09-203A) RELATED INTERLOCK SIGNALS		
ZS-241E	EMPTY DRUM ON LIFT TABLE LT-09-203A	Procedure Sections: WP1-OP-0703, Glovebox Lift Table Operation
ZS-241F	DRUM UNDER PORT	
ZS-241G	LIFT TABLE LT-09-203A AT AGV HEIGHT	
HOIST (107-CR-07-101C) RELATED INTERLOCK SIGNALS		
ZS-730C	HOIST RAISED	Procedure Sections: VIII.C
ZS-730A	HOIST AT TRAY LOAD OUT POSITION	HOIST PARK POSITION
ZS-730B	HOIST AT TRAY LOADING POSITION	

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TABLE 2: SORTING GLOVEBOX RELATED INTERLOCK SIGNALS	
SIGNAL SOURCE	DESCRIPTION
PACKET X-RAY RELATED INTERLOCK SIGNALS	
Procedure Sections: WRP1-OP-0706, Packet NDE Operation	
ZS-334A	PACKET X-RAY OPEN
ZS-334B	PACKET X-RAY CLOSED
ZS-735	PACKET X-RAY TRAY RETRACTED
SORTING TABLE RELATED INTERLOCK SIGNALS	
Procedure Sections: VIII.N, 0	
ZS-717C	SORTING TABLE RETRACTED
ZS-717A	SORTING TABLE EXTENDED
	PERMISSIVES TO EXTEND SORTING TABLE:
	1. SORTING TABLE LOWERED
	2. SORTING TABLE RETRACTED
	3. DRUM TIPPER RAISED
	4. GRAB ROTATED TO VERTICAL
	5. GRAB CLOSED
	6. MANIPULATOR PARKED
	7. MANIPULATOR ARMS PARKED
ZS-729A & B	LOCKED/UNLOCKED
ZS-716A & B	SORTING TABLE LOCKING PINS
	SORTING TABLE LOWERED
ZS-717B	SORTING TABLE RAISED (TIPPED)
	PERMISSIVES TO RAISE/TIP SORTING TABLE
	1. TABLE RETRACTED
	2. TABLE LOWERED
	3. TABLE LOCKING PINS UNLOCKED
	4. DRUM TIPPER LOWERED
	5. DRUM TIPPER GRAB AT VERTICAL
	6. TIPPER GRAB CLOSED
	7. MANIPULATOR PARKED
	8. MANIPULATOR ARMS PARKED

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TABLE 2: SORTING GLOVEBOX RELATED INTERLOCK SIGNALS		
SIGNAL SOURCE	DESCRIPTION	ADDITIONAL INTERLOCK INFORMATION
TRANSFER CAR RELATED INTERLOCK SIGNALS		
ZS-331	DRUM IN POSITION ON TRANSFER CAR	
ZS-718B	TRANSFER CAR DRIVE DISENGAGED	
ZS-718A	TRANSFER CAR DRIVE ENGAGED	
ZS-710	TRANSFER CAR AT ENTRY GLOVEBOX	PERMISSIVES TO MOVE TRANSFER CAR: 1. DRUM GRABBER RAISED 2. DRUM GRAB ROTATED VERTICAL 3. MANIPULATOR PARKED 4. MANIPULATOR ARMS PARKED
ZS-725A	TRANSFER CAR DECELERATE PRIOR TO TRANSFER POSITION	1st SWITCH TRIP
ZS-725A	TRANSFER CAR STOP AT TRANSFER	2nd SWITCH TRIP
ZS-725B	TRANSFER CAR DECELERATE PRIOR TO RELID POSITION	1st SWITCH TRIP
ZS-725B	TRANSFER CAR STOP AT RELID	2nd SWITCH TRIP
ZS-725C	TRANSFER CAR DECELERATE PRIOR TO DELID POSITION	1st SWITCH TRIP
ZS-725C	TRANSFER CAR STOP AT DELID	2nd SWITCH TRIP

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TABLE 2: SORTING GLOVEBOX RELATED INTERLOCK SIGNALS		ADDITIONAL INTERLOCK INFORMATION	
SIGNAL SOURCE	DESCRIPTION		
LID/DELID FIXTURE RELATED INTERLOCK SIGNALS		Procedure Sections: VIII.F, H, I	
ZS-726A	LID/DELID FIXTURE RAISED	PERMISSIVES TO RAISE FIXTURE: 1. SAW RETRACTED 2. SAW MOTOR SOLENOID FEV-378A DE-ENERGIZED	
ZS-726B	LID/DELID FIXTURE LOWERED	PERMISSIVES TO LOWER FIXTURE: 1. FIXTURE AT FIRST CUT POSITION COUNTS 2. FIXTURE RAISED 3. CRIMP RETRACTED 4. CRIMP JAW OPEN 5. SAW MOTOR FEV-378A DE-ENERGIZED 6. SAW RETRACTED 7. LID VACUUM GENERATOR OFF	
ZS-727A	LID/DELID FIXTURE ROTATION PARKED		
ZS-727B	LID/DELID FIXTURE ROTATION INDEX	SWITCHES READ FLAGS ON FIXTURE AS FIXTURE ROTATES	
ZS-728A	LID/DELID FIXTURE PARKED	RELID POSITION	
ZS-728B	LID/DELID FIXTURE AT DELID POSITION	PERMISSIVES TO MOVE FIXTURE TO DELID POSITION: 1. TRANSFER CAR AT DELID POSITION 2. FIXTURE AT PARKED 3. FIXTURE RAISED 4. FIXTURE ROTATED TO PARK POSITION 5. CLAMP RETRACTED 6. JAW OPEN 7. SAW MOTOR DE-ENERGIZED 8. SAW RETRACTED 9. LID LIFTER VACUUM GENERATOR OFF 10. MANIPULATOR PARKED 11. MANIPULATOR ARMS PARKED	
PS-716	LID/DELID FIXTURE LID VACUUM		

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TABLE 2: SORTING GLOVEBOX RELATED INTERLOCK SIGNALS		
SIGNAL SOURCE	DESCRIPTION	ADDITIONAL INTERLOCK INFORMATION
LID/DELID FIXTURE CRIMP HEAD RELATED INTERLOCK SIGNALS		Procedure Sections: VIII.C
ZS-719A	LID/DELID FIXTURE CRIMP HEAD	RETRACTED
ZS-719B	LID/DELID FIXTURE CRIMP HEAD	EXTENDED
ZS-721	LID/DELID FIXTURE CRIMP JAW OPEN	
LID/DELID FIXTURE SAW RELATED INTERLOCK SIGNALS		Procedure Section: VIII.G
ZS-724A	LID/DELID FIXTURE SAW EXTENDED	SAW MUST BE ENERGIZED TO EXTEND
ZS-724B	LID/DELID FIXTURE SAW RETRACTED	
FSL-378	SAW INERT GAS PURGE LOW FLOW	
PSL-378	SAW INERT GAS PURGE CYL LOW PRESS	
MANIPULATOR RELATED INTERLOCK SIGNALS		Procedure Sections: VIII.C through O
ZS-715A	MANIPULATOR PARKED POSITION 1	
ZS-715B	MANIPULATOR PARKED POSITION 2	
ZS-715C & D	MANIPULATOR ARMS PARKED	GLOVEBOX OPERATIONS INTERLOCKED WITH PARK SWITCHES TO PREVENT EQUIPMENT COLLISIONS
FEV-378A	LID/DELID FIXTURE SAW MOTOR	PERMISSIVES TO TURN SAW ON: 1. SAW RETRACTED 2. INERT GAS FLOW ON 3. FIXTURE LOWERED

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TABLE 2: SORTING GLOVEBOX RELATED INTERLOCK SIGNALS		
SIGNAL SOURCE	DESCRIPTION	ADDITIONAL INTERLOCK INFORMATION
ENTRY PORT (107-D0-07-105)	RELATED INTERLOCKS	Procedure Sections: VIII.D
ZS-734B	PORT DOOR OPEN	
ZS-734A	PORT DOOR CLOSED	
ZS-730A	PORT DOOR LOCKED / UNLOCKED	
ZS-730B	PORT DOOR UNLOCKED	
ZS-731A	LID LIFTED	
ZS-731B	LID LOWERED	
ZS-733B	LID ATTACHED	
ZS-733A	LID DETACHED	

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TABLE 3: EXIT GLOVEBOX INTERLOCK SIGNALS		
SIGNAL SOURCE	DESCRIPTION	ADDITIONAL INTERLOCK DETAILS
GENERAL EXIT GLOVEBOX RELATED INTERLOCK SIGNALS		
PDISL-353	GLOVEBOX DIFF PRESS TRIP	Procedure Section: IX (a11)
LIFT TABLE (107-LT-09-202C) RELATED INTERLOCK SIGNALS		
Procedure Sections: WRP1-0P-0703, Glovebox Lift Table Operation		
ZS-762	DRUM ON END OF COMPACT CONVEYOR	CONVEYOR CANNOT START IF PUCK DETECTED
ZS-237F	DRUM UNDER PORT	
ZS-237E	EMPTY DRUM ON LIFT TABLE LT-09-202C	
ZS-237G	LIFT TABLE AT AGV HEIGHT	
PORT D0-07-106 RELATED INTERLOCK SIGNALS		
Procedure Sections: IX-D, E, G, I		
ZSC-760	PORT D0-07-106 DOOR DOWN	SEQUENCE HALTS UNTIL ZSC-760 IS ACTIVATED
ZS0-760	PORT D0-07-106 DOOR ROTATED	ZS-764 MUST INDICATE LID ATTACHED TO PORT
ZS-764	PORT D0-07-106 LID IN POSITION	
ZSC-765A & B	PORT D0-07-106 CLOSED AND LOCKED	DRUM NOT IN EXIT PORT
PS-704	PORT D0-07-106 LID VACUUM	IF VACUUM IS INADEQUATE, SEQUENCE STOPS
ZS-761A	PORT D0-07-106 DRUM DOOR CLOSED	
ZS-761B	PORT D0-07-106 DOOR IN POSITION	
ZS-761C	PORT D0-07-106 DRUM DOOR OPEN	
ZS0-767A & B	DRUM CENTERING DEVICE EXTENDED	WITH SWITCHES DE-ENERGIZED
ZS0-767A & B	DRUM CENTERING DEVICE RETRACTED	WITH SWITCHES ENERGIZED
PS-768	HVAC CONTROL SEAL DEFLATED & OPEN	

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TABLE 3: EXIT GLOVEBOX INTERLOCK SIGNALS		
SIGNAL SOURCE	DESCRIPTION	ADDITIONAL INTERLOCK DETAILS
HOIST CR-07-101D RELATED INTERLOCK SIGNALS		
ZSO-766	DRUM LIFTER GRAB OPEN	Procedure Sections: IX.C
ZSC-766	DRUM LIFTER GRAB CLOSED	
ZS-763A	HOIST CR-07-101D RAISED	
ZS-763B.C	HOIST AT STORAGE POSITION 1	
ZS-763B.C & D	HOIST AT COMPACT RECEIPT POSITION	
ZS-763C	HOIST AT STORAGE POSITION 2	
ZS-763C.D	HOIST AT LOAD OUT POSITION	

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