

5

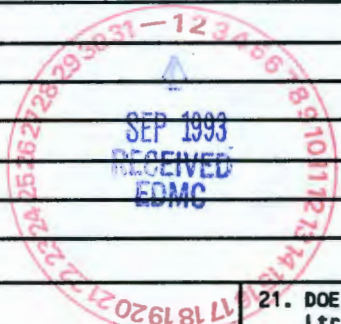
Rev. 4
AUG 16 1993 ENGINEERING DATA TRANSMITTAL

| | | |
|--|---|---|
| 2. To: (Receiving Organization) Distribution | 3. From: (Originating Organization) Decommissioning Support | 4. Related EDT No.: 156197 |
| 5. Proj./Prog./Dept./Div.: 95200 | 6. Cog. Engr.: J. Egrý | 7. Purchase Order No.: NA |
| 8. Originator Remarks: Attached is the final draft of "Lead in Surplus Facilities" for your information and use. | | 9. Equip./Component No.: NA |
| 11. Receiver Remarks: | | 10. System/Bldg./Facility: NA |
| | | 12. Major Assm. Dwg. No.: NA |
| | | 13. Permit/Permit Application No.: NA |
| | | 14. Required Response Date: |

| 15. DATA TRANSMITTED | | | | | (F) | (G) | (H) | (I) |
|----------------------|--------------------------|---------------|--------------|--|--------------|------------------------|------------------------|----------------------|
| (A) Item No. | (B) Document/Drawing No. | (C) Sheet No. | (D) Rev. No. | (E) Title or Description of Data Transmitted | Impact Level | Reason for Transmittal | Originator Disposition | Receiver Disposition |
| 1 | WHC-SD-DD-RD-002 | | 0 | Lead in Surplus Facilities | 3E | 2 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| 16. KEY | | | | | |
|------------------------------|--|----------------------------|-------------------------------------|--------------------------|-------------------------|
| Impact Level (F) | | Reason for Transmittal (G) | | Disposition (H) & (I) | |
| 1, 2, 3, or 4 (see MRP 5.43) | | 1. Approval | 4. Review | 1. Approved | 4. Reviewed no/comment |
| | | 2. Release | 5. Post-Review | 2. Approved w/comment | 5. Reviewed w/comment |
| | | 3. Information | 6. Dist. (Receipt Acknow. Required) | 3. Disapproved w/comment | 6. Receipt acknowledged |

| 17. SIGNATURE/DISTRIBUTION (See Impact Level for required signatures) | | | | | | | | | | | |
|--|-------|--|---------------|--------------------|------------------|--|--|--|--|--------|-------|
| (G) | (H) | (J) Name (K) Signature (L) Date (M) MSIN | | | | (J) Name (K) Signature (L) Date (M) MSIN | | | | (G) | (H) |
| Reason | Disp. | | | | | | | | | Reason | Disp. |
| 1 | 1 | Cog. Eng. | J. Egrý | <i>[Signature]</i> | X7-02 6-21-93 | | | | | | |
| 1 | 1 | Cog. Mgr. | M. R. Morton | <i>[Signature]</i> | R2-77 6-21-93 | | | | | | |
| | | QA | N/A | | | | | | | | |
| | | Safety | N/A | | | | | | | | |
| 4 | 5 | Env. | E. M. Greager | <i>[Signature]</i> | H6-30 4/23/93 | | | | | | |



| | | | |
|---|--|--|--|
| 18. Signature of EDT Originator <i>[Signature]</i> 6-21-93 Date | 19. Authorized Representative Date for Receiving Organization <u>NA</u> | 20. Cognizant/Project Engineer's Manager <i>[Signature]</i> 6-21-93 Date | 21. DOE APPROVAL (if required) Ltr. No. <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/comments <input type="checkbox"/> Disapproved w/comments |
|---|--|--|--|

AUG 16 1993

Date Received:

INFORMATION RELEASE REQUEST

Reference:
WHC-CM-3-4

Complete for all Types of Release

| | | | |
|---|--|---|---|
| <input type="checkbox"/> Speech or Presentation <input type="checkbox"/> Full Paper (Check only one suffix) <input type="checkbox"/> Summary <input type="checkbox"/> Abstract <input type="checkbox"/> Visual Aid <input type="checkbox"/> Speakers Bureau <input type="checkbox"/> Poster Session <input type="checkbox"/> Videotape | | <input type="checkbox"/> Reference <input checked="" type="checkbox"/> Technical Report <input type="checkbox"/> Thesis or Dissertation <input type="checkbox"/> Manual <input type="checkbox"/> Brochure/Flier <input type="checkbox"/> Software/Database <input type="checkbox"/> Controlled Document <input type="checkbox"/> Other | ID Number (include revision, volume, etc.) WHC-SD-DD-RD-002 <i>Rev. 0</i> List attachments. Date Release Required |
|---|--|---|---|

| | | |
|---|-------------------------------------|---------------------------|
| Title Lead in Surplus Facilities | Unclassified Category UC- | Impact Level 3E |
|---|-------------------------------------|---------------------------|

| | |
|---|---|
| New or novel (patentable) subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s). | Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify) |
| Copyrights? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has written permission been granted? <input type="checkbox"/> No <input type="checkbox"/> Yes (Attach Permission) | Trademarks? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify) |

| | |
|-------------------------------------|--|
| Complete for Speech or Presentation | |
| Title of Conference or Meeting | Group or Society Sponsoring |
| Date(s) of Conference or Meeting | City/State |
| Will proceedings be published? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Will material be handed out? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

Title of Journal

| CHECKLIST FOR SIGNATORIES | | | |
|---|--------------------------|-------------------------------------|---|
| Review Required per WHC-CM-3-4 | Yes | No | Reviewer - Signature Indicates Approval |
| | | | Name (printed) Signature Date |
| Classification/Unclassified Controlled Nuclear Information | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Patent - General Counsel | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Legal - General Counsel | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Applied Technology/Export Controlled Information or International Program | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| WHC Program/Project | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Communications | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| RL Program/Project | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Publication Services | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Other Program/Project | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Information conforms to all applicable requirements. The above information is certified to be correct.

| | |
|---|---|
| References Available to Intended Audience | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Transmit to DOE-HQ/Office of Scientific and Technical Information | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Author/Requestor (Printed/Signature) | Date |
| M. R. Morton <i>M.R. Morton</i> | 6.21.93 |

| INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP | |
|--|------------------|
| Stamp is required before release. Release is contingent upon resolution of mandatory comments. | |
| Date Cancelled | Date Disapproved |

| | |
|---|---|
| Intended Audience | <input type="checkbox"/> Internal <input checked="" type="checkbox"/> Sponsor <input type="checkbox"/> External |
| Responsible Manager (Printed/Signature) | Date |
| M. C. Hughes <i>M.C. Hughes</i> | 8/16/93 |

For

SUPPORTING DOCUMENT

1. Total Pages 15

2. Title

LEAD IN SURPLUS FACILITIES

3. Number

WHC-SD-DD-RD-002

4. Rev No.

0

5. Key Words

Lead Management
RCRA
Surplus Facilities
Tri-Party Agreement

6. Author

Name: J. J. Egry
M. R. Morton


Signature

Organization/Charge Code 85200/EBIAG

7. Abstract

This document explains the implementation of and logic behind the lead management in surplus facilities at Hanford.

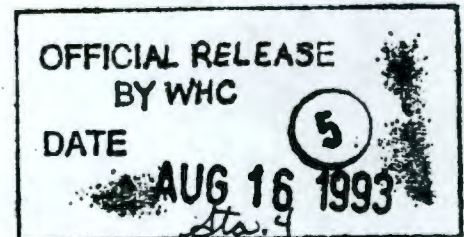
8. PURPOSE AND USE OF DOCUMENT - This document was prepared for use within the U.S. Department of Energy and its contractors. It is to be used only to perform, direct, or integrate work under U.S. Department of Energy contracts. This document is not approved for public release until reviewed.

PATENT STATUS - This document copy, since it is transmitted in advance of patent clearance, is made available in confidence solely for use in performance of work under contracts with the U.S. Department of Energy. This document is not to be published nor its contents otherwise disseminated or used for purposes other than specified above before patent approval for such release or use has been secured, upon request, from the Patent Counsel, U.S. Department of Energy Field Office, Richland, WA.

DISCLAIMER - This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, nor any of their contractors, subcontractors or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or any third party's use or the results of such use of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

10.

RELEASE STAMP



9. Impact Level 3E

LEAD IN SURPLUS FACILITIES

**M. R. Morton
Westinghouse Hanford Company**

and

**J. J. Egry, CHMM
Scientific Ecology Group, Inc.**

MAY 1993

**Westinghouse Hanford Company
Post Office Box 1970
Richland, Washington**

CONTENTS

| | | |
|-----|--|---|
| 1.0 | ISSUE | 3 |
| 2.0 | SCOPE | 3 |
| 3.0 | REGULATORY INTERPRETATIONS FOR MANAGEMENT OF LEAD AS A WASTE . . . | 3 |
| 4.0 | ALTERNATIVES | 4 |
| | 4.1 ALTERNATIVE I | 4 |
| | 4.2 ALTERNATIVE 2 | 4 |
| | 4.3 ALTERNATIVE 3 | 4 |
| 5.0 | DISCUSSION | 4 |
| 6.0 | RECOMMENDED COURSE OF ACTION (ALTERNATIVE 1) | 5 |
| 7.0 | REFERENCES | 5 |
| | ATTACHMENT A | 6 |
| | ATTACHMENT B | 7 |
| | ATTACHMENT C | 9 |

LEAD IN SURPLUS FACILITIES

1.0 ISSUE

The Decontamination and Decommissioning (D&D) of surplus facilities on the Hanford Site represents significant challenge relative to the environmental cleanup mission. Although D&D is not specifically included as milestones in the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), the waste generated from decommissioning activities is subject to the appropriate Resource Conservation and Recovery Act (RCRA), the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), and other applicable local, state, and federal regulations. Some of the surplus facilities scheduled for D&D contain both installed/fixed lead and noninstalled/loose lead which is regulated under RCRA. Because D&D of these facilities will not be completed for approximately 25 to 30 years, management of the installed/fixed lead is being addressed under the engineering support document "Management of Wastes Generated from the D&D Activities." Management of the noninstalled/loose lead is addressed in this engineering support document.

2.0 SCOPE

The scope of this paper covers the noninstalled/loose lead in surplus facilities in the 100 and 200 areas of the Hanford Site. The types of lead found are bricks, blankets, ingots, shot, and pellets. Lead shot and pellets have the highest potential to be released into the environment in their present form. There is an estimated 300,000 pounds of noninstalled/loose lead in these areas. Various alternatives for managing this material are outlined along with a recommended course of action.

3.0 REGULATORY INTERPRETATIONS FOR MANAGEMENT OF LEAD AS A WASTE

RCRA regulation is implemented by the State of Washington Dangerous Waste Regulations contained in Washington Administrative Code (WAC) 173-303. WAC 173-303-016(4)(b) specifies that a material is a solid waste if it is "accumulated, stored, or treated (but not recycled) before, or in lieu of, being abandoned by being disposed of, burned, or incinerated." WAC 173-303-071(3)(n) further states that "dangerous waste generated in a product or raw material storage tank, a product or raw material transport vessel, a product or raw material pipeline, or in a manufacturing process unit and remaining in the unit for" more than ninety days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw material, is not an excluded waste under RCRA.

Lead is included in RCRA management in the state of Washington under WAC 173-303-090(8). Lead in surplus facilities is covered in the Federal Facility Compliance Agreement (*Tri-Party Agreement*). This allows "generation" of RCRA waste as it is removed during decommissioning. Management of lead is addressed in WHC-CM-7-5, *Environmental Compliance*, Section 7.7.4., "Lead."

Lead packaging, labelling, and shipping requirements are outlined in *Title 49 Code of Federal Regulations Part 173*, WHC-EP-0063-3, and specifically Storage/Disposal Approval Record #06-1G-3KM-1291 for Environmental Restoration Operations. (ERO)

4.0 ALTERNATIVES

The following alternatives were identified as viable methods for managing the noninstalled/loose lead in the surplus facilities until such time as they are decommissioned.

4.1 ALTERNATIVE 1

Remove and send to excess all lead found in non-radiologically controlled areas. Remove, package, label, and ship to the central waste complex (CWC) all easily dispersible lead (i.e., lead shot and pellets) from surplus facilities. All other lead will be generated in the conduct of D&D operations.

4.2 ALTERNATIVE 2

Remove, package, label, and ship to CWC the non-installed/loose lead found on ground level in surplus facilities. All other lead in surplus facilities will be generated in the conduct of D&D operations.

4.3 ALTERNATIVE 3

Remove, package, label, and ship to CWC all non-installed/loose lead found in surplus facilities from all levels.

5.0 DISCUSSION

Lead to be removed under Alternative 1 is shown in Attachment A. This alternative is currently being implemented. Lead shot and lead pellets are the most easily dispersible form of lead that is in the surplus facilities. Removal of this lead will alleviate the risk of spilling this form of lead over a large area and entering the environment.

Lead to be removed under Alternative 2 is shown in Attachment B. The ground floor lead is the most easily accessed lead in the facilities. An estimated eighty 55-gallon drums will be needed to properly package this lead. This represents a disposal cost of approximately \$210,000, which does not include labor or other costs.

Alternatives 1 and 2 assume there will be no objection from the Environmental Protection Agency (EPA) or Washington State Department of Ecology based on the low potential for release of lead into the environment from the solid lead in these facilities.

Lead to be removed under Alternative 3 is shown in Attachment C. All lead in surplus facilities would be removed under this alternative. However, this amount of lead will require at least 120 drums for proper packaging. The disposal costs start at \$367,500 and will grow as the unknown quantities of lead are inventoried and added to the list. This cost does not include labor

and other costs. Labor for this alternative and personnel safety risks will be substantially greater due to the lead being on multiple levels and stairwells being the only access.

6.0 RECOMMENDED COURSE OF ACTION (ALTERNATIVE 1)

It is recommended that a comprehensive cleanup campaign be initiated at surplus facilities to remove lead in non-radiologically controlled areas and easily dispersible, non-installed/loose lead from all levels in surplus facilities. Removal of this lead from surplus facilities will be done as a best-management practice. Lead will be "generated" in the conduct of D&D operations.

All other lead will not be retrieved from surplus facilities due to safety considerations of removing the large amounts of lead from the facilities. Each lead brick weighs approximately 24 to 27 pounds. The lead located on upper levels will require removal by hand-carrying the lead down the stairs. No elevators are available for use. An average individual can reasonably carry only one brick at a time. To remove only the lead bricks from 105-KW, it will require 637 trips up and down stairs. This increases the risk for trips and falls. Most of these lead bricks are contaminated with radioactivity. The time spent working with the lead must be managed to reduce radiological exposure.

The disposition of waste materials from surplus facilities, such as this lead, that can become dangerous waste during decommissioning is addressed via the language in the current version of the TPA. Although the TPA is subject to renegotiation, it is uncertain at this time if the language regarding D&D will change. However, as it does change and subsequently impacts the way these types of materials are being managed, a revision to this plan will be made.

7. REFERENCES

1. Title 49 Code of Federal Regulations Part 173.
2. Washington Administrative Code, Chapter 173-303, "*Dangerous Waste Regulations.*"
3. WHC-CM-7-5, "*Environmental Compliance,*" Section 7.7.4., "Lead."
4. WHC-EP-0063-3, "*Hanford Site Solid Waste Acceptance Criteria.*"

**ATTACHMENT A
EASILY DISPERSIBLE LEAD**

105-C

Near Sample Room: Five-gallon can of lead pellets

Near Sample Room: Four vats of gravel size lead pellets

Far Sample Room: Seven five-gallon cans of lead pellets

105-DR

Water Sample Room: Unknown quantity of lead shot

Gas Sample Room: Unknown quantity of lead shot

105-H

Lab (NW Stairwell): Unknown quantity of lead shot

SW Stairwell Gamma Monitoring Room: Unknown quantity of lead shot

105-KW

Outer Rod Room: One bucket of lead shot

**ATTACHMENT B
GROUND FLOOR LEVEL LEAD**

| | | |
|---------------|--------------|--|
| <u>105-B</u> | 52 Bricks | Northeast stairwell area |
| | 406 Bricks | Transfer area on four pallets |
| | 1 Sheet | Transfer area |
| | 4 50# Weight | Control room behind loop heater/instrumentation door |
| <u>105-C</u> | 13 Bricks | Front face equipment room |
| | 134 Bricks | Green fuel storage room |
| | 3 Bricks | Southwest corner of basin |
| | 15 Bricks | Fuel exam room west of northern-most pit |
| | 1 Brick | Northeast corner wash pad in sink |
| | 4 Bricks | Transfer area |
| | 1 50# Weight | East wall of wash pad - 50 pounds |
| | 1 50# Weight | Room between wash pad and transfer area - 50 pounds |
| <u>105-D</u> | 1 Brick | Southwest stairwell area |
| | 1 Brick | Rad materials area |
| <u>105-DR</u> | 24 Bricks | Basin - on shelf |
| | 7 Bricks | Southwest entry area |
| | 2 Bricks | Rad materials area - reading 250K dpm |
| | 1 Brick | Control room |
| | 1 Pig | Control room |
| <u>105-F</u> | 4 Bricks | Basin |
| | 1 Brick | Front face work area |
| <u>105-H</u> | 11 Bricks | Corridor 10 |

| | | |
|---------------|-------------|--|
| | 8.5 Bricks | Front Elevator Tool Room |
| | Bricks | Unknown quantity in rear elevator drive room |
| | 43 Bricks | Inner rod room |
| | 3 Bricks | Outer rod room in hazardous material zone |
| | 120 Bricks | Outside covering of effluent pit |
| | 32 Bricks | Fan room |
| | 1 Blanket | Corridor 10 |
| | 1 Blanket | Outer rod room in hazardous material area |
| | 12 Sheets | Outer rod room in hazardous material area |
| <u>105-KE</u> | 2 Bricks | Hazardous material work area |
| | 1759 Bricks | Hazardous material work area on 8 pallets |
| <u>105-KW</u> | 6 Blankets | Outer rod room |
| | 112 Bricks | Outer rod room |
| | 1 Door | Outer rod room |
| <u>202-S</u> | 2 Sheets | North pipe gallery |
| <u>2718-S</u> | Lead Scrap | Unknown quantity |
| <u>292-S</u> | 1 Sheet | |

ATTACHMENT C
ALL LEAD IN SURPLUS FACILITIES

| | <u>Quantity</u> | <u>Type</u> | <u>Level</u> | <u>Location</u> |
|---------------|-----------------|-------------|---|---|
| <u>105-B</u> | 52 | Brick | 0' | Northeast entry |
| | 406 | Brick | 0' | Transfer area on 4 pallets |
| | 1 | Sheet | 0' | Transfer area |
| | 4 | Weight | 0' | Control room behind loop heater |
| | 48 | Brick | 10' | Southwest entry |
| | | Brick | 10' | Unknown quantity in outer rod room |
| | 79 | Brick | 10' | Inner rod room |
| | 22 | Brick | 10' | Inner rod room |
| | 7 | Plug | 10' | Southwest entry - suspected shield plugs |
| | 44 | Brick | 20' | Inner rod room in upper level |
| | 20 | Brick | 30' | Top of unit on southwest side |
| | 1 | Plate | 30' | Top of unit on southwest corner |
| | <u>105-C</u> | 13 | Brick | 0' |
| 134 | | Brick | 0' | Green fuel storage room |
| 3 | | Brick | 0' | Southwest corner of basin |
| 15 | | Brick | 0' | Fuel exam pit west of northern pit |
| 1 | | Brick | 0' | NE corner wash pad in sink |
| 4 | | Brick | 0' | Transfer area |
| 1 | | Weight | 0' | East wall wash pad - 50 pounds |
| 1 | | Weight | 0' | Room between wash pad and transfer area |
| | | Brick | 10' | Unknown quantity at X-1 level - southwest stairs |
| 6 | | Brick | 10' | Southeast sample room |
| | | Sheet | 10' | Unknown quantity X-1 Level - southwest stairs |
| 6 | | Sheet | 10' | Right rear face elevator shaft |
| 14 | | Brick | 20' | X-2 Level southwest stairwell |
| 1 | | Sheet | 20' | X-2 Level southwest stairwell |
| 120 | | Brick | 30' | Top of unit on north side |
| 70 | | Brick | 30' | Top of unit at northwest corner |
| | | Brick | 30' | Unknown quantity at top of unit at southeast corner |
| 1 | Sheet | 40' | 1/2" thick sheet hanging on north wall mezzanine cat walk | |
| <u>105-D</u> | 1 | Brick | 0' | Southwest stairwell |
| | 1 | Brick | 0' | Rad materials area |
| | 12 | Brick | 10' | Inner rod room at base of stairs |
| | 2 | Plug | 20' | Inner rod room |
| | 38 | Brick | 30' | Top of unit |
| | 5 | Plug | 30' | Top of unit |
| | 2 | Sheet | 30' | Hanging on rear face |
| <u>105-DR</u> | 24 | Brick | 0' | Basin on shelf |
| | 7 | Brick | 0' | Southwest entry area |

| | | | | |
|--------------|-----|---------|-----|--|
| | 2 | Brick | 0' | Rad materials area - reading 250K dpm |
| | 1 | Brick | 0' | Control room |
| | 1 | Pig | 0' | Control room |
| | 1 | Blanket | 10' | Southeast side |
| | 5 | Brick | 10' | Front elevator drive platform |
| | 10 | Brick | 10' | Inner rod room |
| | 1 | Brick | 10' | Inner rod room |
| | 1 | Cave | 10' | Northeast corner |
| | 13 | Plate | 10' | X-1 Level at southwest side test area |
| | 2 | Blanket | 20' | Southwest side |
| | 11 | Brick | 20' | Southwest side |
| | 2 | Brick | 20' | Roof outside of northeast stairwell |
| | 60 | Brick | 30' | Top of unit |
| | 5 | Brick | 30' | Rear face observation feck |
| | 18 | Brick | 30' | Southeast corner - inaccessible |
| | 5 | Brick | 40' | Southeast side |
| | 2 | Plug | 40' | North side - top |
| <u>105-F</u> | 4 | Brick | 0' | Basin |
| | 1 | Brick | 0' | Front face work area |
| | 1 | Blanket | 20' | Test area at northwest stairwell |
| | 1 | Brick | 20' | Test area at northwest stairwell |
| | 5 | Brick | 20' | Upper level inner rod room |
| | 13 | Brick | 30' | Top of unit |
| <u>105-H</u> | 1 | Blanket | 0' | Outer rod room hazardous material zone |
| | 1 | Blanket | 0' | Corridor 10 |
| | 11 | Brick | 0' | Corridor 10 |
| | 8.5 | Brick | 0' | Front elevator tool room |
| | | Brick | 0' | Unknown quantity at rear elevator drive room |
| | 43 | Brick | 0' | Inner rod room |
| | 3 | Brick | 0' | Outer rod room hazardous material zone |
| | 120 | Brick | 0' | Outside covering effluent pit |
| | 32 | Brick | 0' | Fan room |
| | 12 | Sheet | 0' | Outer rod room hazardous material zone |
| | | Blanket | 10' | Unknown quantity in lab - northwest stairs |
| | 7 | Brick | 10' | Upper level rod room |
| | | Brick | 10' | Unknown quantity in lab - northwest stairs |
| | | Brick | 10' | Unknown quantity at southwest stairwell gamma monitoring room |
| | 11 | Brick | 10' | Upper level inner rod room |
| | | Caps | 10' | Unknown quantity in lab - northwest stairwell |
| | 1 | Blanket | 20' | Southwest stairwell |
| | | Brick | 20' | Unknown quantity - lab northwest |
| | 2 | Brick | 20' | Southwest stairwell |

| | | | | |
|---------------|------|--------------|------|--|
| | 4 | Brick | 20' | Southeast stairwell viewing room |
| | | Brick | 20' | Unknown quantity - southeast |
| | 1 | Doorstop | 20' | Southeast stairwell viewing room |
| | 14.5 | Brick | 30' | Southwest side top of elevator |
| | 9 | Brick | 30' | Top of unit |
| | | Brick | 30' | Unknown quantity at top of southeast stairwell |
| | 1 | Doorstop | 30' | Southeast |
| <u>105-KE</u> | 55 | Brick | -10' | Basement |
| | 2 | Brick | 0' | Hazardous material work area |
| | 1759 | Brick | 0' | Hazardous material work area on pallets |
| | 1 | Block | 10' | Level above electric shop 2 inches thick |
| | 3 | Brick | 10' | Inner rod room |
| | 255 | Brick | 10' | X-1 level |
| | 1 | Form | 10' | Level above electric shop |
| | 2 | Sheet | 10' | Inner rod room |
| | 16 | Brick | 30' | Top of unit - step-off pad |
| | 4 | Sheet | 30' | Top of unit - step-off pad |
| | 19.5 | Brick | 40' | Reactor block mezzanine |
| <u>105-KW</u> | 84 | Brick | -10' | Process rad monitoring room |
| | 1 | Plate | -10' | Process rad monitoring room |
| | 6 | Blanket | 0' | Outer rod room |
| | 112 | Brick | 0' | Outer rod room |
| | 1 | Door | 0' | Outer Rod Room |
| | 1 | Blanket | 10' | Upper level inner rod room |
| | 2 | Blanket | 10' | X-1 level |
| | 6 | Brick | 10' | Upper level inner rod room |
| | 202 | Brick | 10' | X-1 level |
| | 4.5 | Brick | 10' | Rear face by sample room |
| | 2 | Pig | 10' | X-1 level |
| | 4 | Pipe Blanket | 10' | X-1 level |
| | 6 | Blanket | 20' | Second upper level inner rod room |
| | 6 | Brick | 20' | Second upper level inner rod room |
| | 258 | Brick | 20' | X-2 level |
| | 2 | Cylinder | 20' | X-2 level |
| | 1 | Pipe Blanket | 20' | X-2 level |
| | 7 | Blanket | 30' | Third upper level inner rod room |
| | 4 | Blanket | 30' | Top of unit |
| | 50 | Brick | 30' | Third upper level inner rod room |
| | 10 | Brick | 30' | Third upper level outer rod room |
| | 4 | Brick | 30' | Top of unit |
| | 12 | Brick | 40' | Mezzanine above the reactor block |
| <u>202-S</u> | 2 | Sheet | 0' | North pipe gallery |
| <u>2718-S</u> | | Scrap | 0' | Unknown quantity |
| <u>292-S</u> | | Sheet | 0' | Unknown quantity |

DISTRIBUTION SHEET

| | | |
|--|---------------------------------|--------------------|
| To Distribution | From Decommissioning Support | Page 1 of 1 |
| | | Date June 14, 1993 |
| Project Title/Work Order LEAD IN SURPLUS FACILITIES | | EDT No. 156199 |
| | | ECN No. |

| Name | MSIN | Text With All Attach. | Text Only | Attach./ Appendix Only | EDT/ECN Only |
|-----------------|-------|-----------------------------|-----------|------------------------------|-----------------|
| J. W. Badden | H6-22 | X | | | |
| D. K. DuVon | R2-77 | X | | | |
| J. J. Egry | X7-02 | X | | | |
| D. B. Encke | R2-77 | X | | | |
| B. G. Erlandson | H6-20 | X | | | |
| E. M. Greager | H6-30 | X | | | |
| J. E. Hodgson | X7-02 | X | | | |
| R. J. Johnson | X7-02 | X | | | |
| J. W. Lawson | T3-11 | X | | | |
| M. R. Morton | R2-77 | X | | | |
| J. B. Shannon | T3-11 | X | | | |
| B. F. Weaver | T3-11 | X | | | |
| Central Files | L8-04 | X | | | |
| EDMC | H6-08 | X | | | |
| DE File - LEAD | R2-77 | X | | | |