### Engineering Data Transmittal

**APR 24 2000**

**ENGINEERING DATA TRANSMITTAL**

**Records and Information Management**

**PPD Infrastructures Systems**

**General:**

1. **Required Raspanso Date:**
   - 8/18/99

2. **Project/Program/Division:**
   - 11906/8000

3. **Design Authority/Design Agent/Cog. Engr.:**
   - R.J. THOMAS

4. **Initial Release of Supporting Document:**

5. **Data Transmitted:**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Document/Drawing No.</th>
<th>Sheet No.</th>
<th>Rev. No.</th>
<th>Title or Description of Data Transmitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HNF-6236</td>
<td></td>
<td></td>
<td>Plutonium Finishing Plant Hardware Commercial Grade Items Critical Characteristics</td>
</tr>
</tbody>
</table>

6. **Reason for Transmittal:**

<table>
<thead>
<tr>
<th>Approval Designator</th>
<th>Reason for Transmittal</th>
</tr>
</thead>
<tbody>
<tr>
<td>E, S, Q, D OR N/A</td>
<td>Approved</td>
</tr>
<tr>
<td>(See WHC-CM-3-5, Sec. 12.7)</td>
<td>Review</td>
</tr>
<tr>
<td>1. Approval</td>
<td>2. Release</td>
</tr>
<tr>
<td>2. Information</td>
<td>3. Dist. (Receipt Acknow. Required)</td>
</tr>
</tbody>
</table>

7. **Disposition:**

<table>
<thead>
<tr>
<th>Disposition (H) &amp; (I)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Approved</td>
</tr>
<tr>
<td>2. Approved w/comment</td>
</tr>
<tr>
<td>3. Disapproved w/comment</td>
</tr>
<tr>
<td>4. Reviewed no/comment</td>
</tr>
<tr>
<td>5. Reviewed w/comment</td>
</tr>
<tr>
<td>6. Receipt acknowledged</td>
</tr>
</tbody>
</table>

**Signatures/Distribution:**

<table>
<thead>
<tr>
<th>(G) Reason</th>
<th>(H) Disp.</th>
<th>(J) Name</th>
<th>(K) Signature</th>
<th>(L) Date</th>
<th>(M) MSIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Authority</td>
<td>R.J. THOMAS</td>
<td>4/18/00</td>
<td>9-20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cog. Eng.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cog. Mgr.</td>
<td>R.A. BURKE</td>
<td>4/20/00</td>
<td>7-20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QA DR Cogl</td>
<td></td>
<td>4-19-00</td>
<td>T-15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Env.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DOE Approval**

<table>
<thead>
<tr>
<th>Ctrl No.</th>
<th>Approved</th>
<th>Approved w/comments</th>
<th>Disapproved w/comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PLUTONIUM FINISHING PLANT SAFETY CLASS/SAFETY SIGNIFICANT COMMERCIAL GRADE ITEMS CRITICAL CHARACTERISTIC

Prepared for the U.S. Department of Energy Assistant Secretary for Environmental Management

Project Hanford Management Contractor for the U.S. Department of Energy under Contract DE-AC06-96RL13200

Fluor Hanford
P.O. Box 1000
Richland, Washington

Approved for public release; further dissemination unlimited
PLUTONIUM FINISHING PLANT
SAFETY CLASS/SAFETY
SIGNIFICANT COMMERCIAL GRADE
ITEMS CRITICAL CHARACTERISTIC

RJ THOMAS
FLUOR HANFORD

Date Published
April 2000

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Project Hanford Management Contractor for the
U.S. Department of Energy under Contract DE-AC06-96RL13200

Fluor Hanford
P.O. Box 1000
Richland, Washington

Approved for public release; further dissemination unlimited
LEGAL 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.

This report has been reproduced from the best available copy.

Printed in the United States of America

Total Pages: 4
1.0 PURPOSE

This document specifies the critical characteristics for Commercial Grade Items (CGI) procured for use in the Plutonium Finishing Plant as required by HNF-PRO-268 and HNF-PRO-1819. These are the minimum specifications that the equipment must meet in order to properly perform its safety function. There may be several manufacturers or models that meet the critical characteristics of any one item.

2.0 BACKGROUND

There are several instruments, pieces of equipment, filters and other components that are classified as Safety Class or Safety Significant throughout the PFP complex. Replacing or modifying equipment with these safety designations require the procurement of certified material or procurement of Commercial Grade Items in accordance with HNF-PRO-2668, “Control of Purchased Items and Services.”

3.0 SCOPE

The safety function of many of the items and components used in the PFP does not present any requirements that are different from plant operating type equipment used throughout commercial industry.

For this reason standard industry equipment is acceptable when the critical characteristics items are delineated by the system cognizant engineer and met by a supplier. The following list of critical characteristics details the minimum specifications for the needed standard industry equipment. The critical characteristics are verified through receipt inspections.

4.0 CRITICAL CHARACTERISTIC LISTING

1. Hood Gloves – Lead/Hypalon

Critical Characteristics:
- North Part No. 8YLY3032, 8YLY3032-A or 8YLYS6H
- Hand Size 9 3/4, 4 inch cuff
- Name of Mfg. and P/N on inside of glove about 2 inches from cuff.
- Certificate of Conformance for lead equivalency of 0.1 mm by test, range 0.08 to 0.15 (Clause B79)
- Left and Right glove per set. (Unless ambidextrous)
- Documentation justifying the non-regulated status of purchased gloves.

2. Hood Gloves – Hypalon

Critical Characteristics:
- North Part No. 8Y3032, 8Y1532
- Hand Size 9 3/4, 4 inch cuff.
- Name of Mfg. and P/N on inside of glove about 2 inches from cuff.
• Left and Right glove per set. (No ambidextrous)

3. Hood Gloves – Lead/Neoprene

Critical Characteristics:
• North Part No. 8NLL3032-A
• Hand Size 9 3/4 inch, 4 inch cuff.
• Name of Mfg. and P/N on inside of glove about 2 inches from cuff.
• Documentation justifying the non-regulated status of purchased gloves.
• Certification of Conformance for lead equivalency of 0.1 mm by test, range 0.08 to 0.15 (Clause B79)

3.0 References

A. HNF-PRO-268, “Control of Purchased Items and Services” Rev.3
B. HNF-PRO-1819, “PHMC Engineering Requirements” Rev.3.