

601991

BD-7400-172-1 (07/91)

PFP PUBLIC AUTOMATIC EXCHANGE (PAX) COMMERCIAL GRADE ITEM CRITICAL CHARACTERISTICS

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

HNF-6116
Revision 0
EDT 601991

PFP PUBLIC AUTOMATIC EXCHANGE (PAX) COMMERCIAL GRADE ITEM CRITICAL CHARACTERISTICS


W. F. White
Fluor Hanford Company

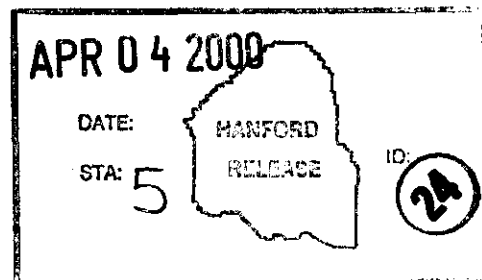
Date Published
March 2000

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

 4/4/00
Release Approval Date



HNF-6116
Rev. 0

TRADEMARK DISCLAIMER

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.

This report has been reproduced from the best available copy.

Total pages - 6

Printed in the United States of America

1.0 PURPOSE

This document specifies the critical characteristics for Commercial Grade Items (CGI) procured for use within the safety envelope of PFP's PAX system 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 for any one item.

2.0 BACKGROUND

PFP's PAX System includes the eleven (11) amplifiers, numerous speakers, relays and their associated hardware. Not all items within the PAX system are within the safety envelope. Those that are outside of the envelope are purchased as general service items. This document includes all parts within the safety envelope. Specific safety envelope boundaries and justifications are contained in HNF-SD-CP-SDD-009, "Definition and Means of Maintaining the Emergency Notification and Evacuation System Portion of the PFP Safety Envelope." The procurement requirements associated with the system necessitates procurement of some system equipment as Commercial Grade Items in accordance with HNF-PRO-268, "Control of Purchased Items and Services."

3.0 SCOPE

The following list of critical characteristics details the minimum specifications for the standard industry equipment used in the system. The critical characteristics are verified through a combination of receipt inspections and installation testing.

The following characteristics assume the new part is either the same manufacturer and part number or a replacement part specified by the vendor. Further information for the listed equipment is available from the appropriate Vendor Information (VI) files.

4.0 CRITICAL CHARACTERISTIC LISTING

1. Resistors (generic item)

Critical Characteristics:

- Specified resistance
- Power rating
- Tolerance

2. Fuse Holders (generic item)

Critical Characteristics:

- Holds specified sized fuse
- Specified connections

3. Fuses (generic item)

Critical Characteristics:

- Specified size (e.g., 3AG)
- Specified amperage rating (e.g., 10 amp, slow blow)
- Specified voltage rating (e.g., 250 VAC)

4. Transistors/Diodes (generic items)

Critical Characteristics:

- Transistor or diode designation

5. Relays (generic item)

Critical Characteristics:

- Base or socket configuration as specified.
- Contact rating as specified.
- Coil voltage as specified.
- 80% Pickup voltage.

6. Wire (generic item)

Critical Characteristics:

- Specified wire size
- Insulation
- Number of conductors

7. Connector (generic item)

Critical Characteristics

- Insert configuration
 1. Pins or sockets,
 2. Number and orientation of connections
 3. Wire size of connections
- Shell configuration
 1. Receptacle or plug

8. PAX Amplifier (generic item)

Critical Characteristics:

- Voltage rating: 120VAC
- Output power rating: 250 watts
- Output to a 70 volt system

9. PAX Speaker (generic item)

Critical Characteristics:

- Provides specified audio power output
- Operates from a 70 volt audio line
- Adjustable output volume

10. Microphone (generic item)

Critical Characteristics:

- Connections configured as specified.
- Desk microphone.
- Usable with a Valcom¹ V-9939A Microphone Adapter.

¹ Valcom is the trademark of Valcom, Inc. Roanoke, VA.

5.0 REFERENCES

- A. HNF-PRO-268, "Control of Purchased Items and Services," Rev. 3.
- B. HNF-PRO-1819, "PHMC Engineering Requirements," Rev. 3.
- C. HNF-SD-CP-SDD-009, "Definition and Means of Maintaining Emergency Notification and Evacuation System Portion of the PFP Safety Envelope"

Document HWF-6116 Rev. 0



Recto

Verso

Recto

Verso

Recto

Verso

[illegible][illegible][illegible]