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Plum Brook Station Reference

Drafting Reference

Approved by Plum Brook Management Office/7030:

NASA - Glenn Research Center
Cleveland, OH 44135

Glenn Research Center Plum Brook Station Reference	Title: Drafting References	

Procedure Owner: Plum Brook Management Office
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Change Record

Rev.	Effective Date	Description
Initial	10/26/98	Initial Release

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1.0 INTRODUCTION

This document outlines the reference material to be used in the preparation of engineering designs and drawings.

1.1 Purpose

To provide a comprehensive list of reference materials, standards and books that will aid the Plum Brook Drafting Staff in uniform and consistent design and documentation of Plum Brook Drawings.

1.2 Scope

This document covers engineering drawings and sketches for all test sites and the infrastructure at NASA Plum Brook Station.

2.0 REFERENCES

2.1 Applicable Documents

Document Number	Document Title
ANSI Y32.9-1972	Graphic Symbols of Electrical Wiring & Layout Diagrams
ANSI Y32.4-1977	Graphic Symbols For Plumbing Fixtures For Diagrams
ANSI Z32.2.3-1949	Graphic Symbols For Pipe Fittings, Valves & Piping
ANSI / ISA-S5-1-1984	Instrumentation Symbols & Identification
ANSI Z32.2.4-1949	Graphic Symbols For Heating, Ventilating & Air Conditioning
ANSI B16.9-1978	Factory-Made Wrought Steel Butt welding Fittings
ANSI Y14.5M-1982	Geometric Tolerancing
ANSI Y32.2-1975	Graphic Symbols For Electrical & Electronic Diagrams
ASME Y14.24M-1989	Types and Applications of Engineering Drawings
ASME Y14.35M-1997	Revision of Engineering Drawings & Associated Documents
ASME Y14.34M-1996	Associated Lists

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Glenn Research Center Plum Brook Station Reference	Title: Drafting References	

MIL-STD-100F	Standard Engineering Drawing Practices
MIL-STD-3100	General Specifications For Technical Data Packages
MIL-STD-1359A	Cleaning Methods and Procedures For Breathing Oxygen Equipment
NHB 7020.1A (May 1974)	NASA Lewis Research Center Facilities Engineering Handbook
ASA B31.1-1955	Code For Pressure Piping
AWS A2.4-76	Symbols For Welding & Nondestructive Testing
NFPA 170	Standards For Fire Safety Symbols
KSC-C-123F (Oct 19, 1979)	NASA Kennedy Space Center Surface Cleanliness of Fluid Systems
NASA Lewis Research Center	Computer-Aided Engineering, Design and Manufacturing Data Interchange Standards
NASA Lewis Research Center	Pressure Vessel / System Recertification Handbook
NASA Lewis Research Center	Drafting & Procedure Standards Volume II
NASA Lewis Research Center	A Short Course By Brunner's Vacuum Training --- "Vacuum Technology"
NASA Lewis Research Center	Engineering Design Guides: Volume 1 – Rotating Machinery (books 1a & 1b) Volume 2 - Fluid Systems Volume 4 - Electrical Volume 6 - Drafting Standards Volume 7 - CADAM Standard Practices (to be updated for AutoCad)
NASA Plum Brook Station	Plans of Buildings and Structures

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American Institute of
Architects Press

CAD Layer Guild Lines
Author: Michael Schley (editor)

ISBN # 0070096635

Time Saver Standards For Architectural Design Data (6th edition),
Author: John Hancock Callender
Publisher: McGraw-Hill Book Company

Library of Congress
Catalog No. 63-18702
LeRC Library No.
744A7 c.2

Standard Graphic Symbols (copyright 1963)
Author: Alvin Arnell
Publisher: McGraw-Hill Book Company

ISBN # 0471247626
LeRC Library No.
692.2 R145 c.28

Architectural Graphic Standards (5th edition)
Author: Charles George Ramsey
Publisher: Jon Wiley & Sons, Inc. Publishing

Library of Congress
Catalog No. 63-11712
Lerc Library No.
671.5 Am352 c.5

Brazing Manual (copyright 1963)
American Welding Society, Inc.

ISBN # 0831125950

Machinery's Handbook (25th edition)
Author: Erik Oberg, Horton, Ryffel
Publisher: Industrial Press Inc.

ISBN #156637409X

AutoCAD and Its Applications Basics: Release 14
Author: Terence M. Shumaker, David A. Madsen
Publisher: Goodheart-Willcox Co.

New Riders - Publisher

Inside AutoCAD 14
Author: Michael E. Beall (editor)
Publisher: New Riders Publishing

Drawing No. PF-21193

Plum Brook Station's B2, HTF, & K-Site Test Site Piping Legend
Standards

Drawing No. PF-41001

Plum Brook Station's SPF Test Site Piping Legend Standards