

SDC-1.2

HANFORD PLANT STANDARDS AND  
NATIONAL CODES AND STANDARDS



This Section consists  
of 3 pages

Description of Revision Updated Sections A.3, B, and C		<b>HANFORD PLANT STANDARDS</b> DOE - RICHLAND, WASHINGTON		Number
Prepared By: <i>W. Brown</i> 12.14.83	Orig. Issue Date 6-11-68	GENERAL DESIGN CRITERIA		SDC-1.2
Approved: <i>W. Brown</i> DOE	Date 12/4/83	HANFORD AND NATIONAL CODES AND STANDARDS		Revision No. 11

SDC-1.2  
HANFORD PLANT STANDARDS

A. HANFORD PLANT STANDARDS

1. Hanford Standard Criteria, Drawings, Specifications, and Guides are contained in several volumes as shown on the Preface and Index pages of each volume. Each volume includes an index to that volume only.
2. Hanford Standards books, or separate copies of any Hanford Standard, are available from, and are issued to authorized personnel by Engineering Files, Federal Building, by means of a properly executed Reproduction Order.
3. For work designed for performance by the on-site cost type construction contractor, Hanford Standards should be used by direct reference. Reference shall be by number, revision number and title, and, when only a portion of the Standard applies, the applicable portion shall be identified: for example, Hanford Standard AC-5-3, Rev 7, Single Post Marker or Guard Post, Type II. Revision numbers shall not be included in construction specifications. For work designed for performance by a firm fixed price (FFP) contractor, Hanford Standards shall be incorporated directly into the contract drawings and/or specifications. There shall not be any HPS referenced on FFP construction drawings and specifications.
4. Requirements of national codes, standards, and specifications are in many cases modified, made more restrictive, or additional requirements imposed by Hanford standards.
5. The Hanford Standard Guides contain generalized engineering information and are advisory only.
6. Hanford Plant Standard Specifications are numbered as follows:

Mechanical Specifications	HPS-100 to 199-M
Electrical Specifications	HPS-300 to 399-E
Instrument Specifications	HPS-400 to 499-I
Arch-Civil Specifications	HPS-500 to 599-AC
7. Revisions to Hanford Plant Standards are numbered consecutively (1, 2, 3, ---). An original issue is Revision 0. Thus, a complete description of a Standard Specification would be HPS-331-E, Rev 3.

B. NATIONAL CODES AND STANDARDS (References)

1. The National Bureau of Standards Miscellaneous Publication 289, Directory of United States Standardization Activities, is a complete listing and description of national organizations who

B. NATIONAL CODES AND STANDARDS (Continued)

contribute to the development of standards. It includes over 200 associations, societies, and agencies engaged in some form of engineering standards work:

2. A library of national standards is maintained in the Federal Building by the on-site Architect-Engineer. Standards publications, as well as various other handbooks, textbooks, and reference material, are available for temporary loan to Hanford personnel. Catalogs and indexes to publications of most national standards organizations are maintained in the library. Standards material not in files which pertains to Hanford interests will be procured promptly upon request.
3. References to national standards shall be made by number and title; for example, ASTM A53, Welded and Seamless Steel Pipe. References to the American National Standards Institute shall be by full name, American National Standard C80.1; or the abbreviation, ANSI C80.1 to avoid confusion with the American Nuclear Society (ANS). If only selected parts of a standard are to be referenced, the specific chapters, sections, or paragraphs shall be clearly identified.
4. The latest edition of all codes and standards in effect at the time of design effort shall be used unless there is a particular reason for an earlier issue. However, the statement "latest revision" following a referenced standard shall not be used in construction or procurement specifications.

C. NATIONAL STANDARDS REFERENCED IN DOE ORDERS

1. The DOE Orders contains numerous references to national standards. Orders of particular importance to engineering design are as follows:
  - a. DOE Order 6430, General Design Criteria for Department of Energy Facilities
  - b. DOE Order 5480.1A, Environmental Protection, Safety, and Health Protection Program for DOE Operations
  - c. RL Supplement 5480.1, Environmental Protection, Safety Health Protection Program for Richland Operations
  - d. DOE Order 5300.1A, Telecommunications
  - e. DOE Order 5480.1A, Chapter XII, Prevention, Control, and Abatement of Environmental Pollution
  - f. DOE Order 5632.1, Physical Protection of Classified Matter.

C. NATIONAL STANDARDS REFERENCED IN DOE ORDERS (Continued)

2. As used in the DOE Orders with reference to national standards, the terms "basic", "prescribed", "shall be", and "must be", indicate that the requirements of the reference are mandatory as the minimum acceptable. The terms "recommended", "should be", and "may be", are recommended for adherence, or are to be used as acceptable guidelines.