



Standards *Actions*

Projects Initiated

The following DOE technical standards projects were recently initiated. If you are interested in participating in the development of these standards, please contact the persons listed below.

- *Accelerated Learning - A Systematic Approach*, Project Number FSC-6910; Eula Baldwin, EH-31; 208-526-9472, FAX 208-526-9650, Email egb@inel.gov.

Documents Recently Published

The following DOE documents have recently been published:

- DOE-EM-STD-5505-96, *Operations Assessments, May 1996*.

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 423-576-8401 or FAX 423-576-2865.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 703-487-4650 or FAX 703-321-8547.

The Technical Standards Program is sponsoring a project at OSTI to place *all* DOE technical standards (i.e., standards and handbooks) on the Internet. To date, 104 DOE technical standards have been placed on the Internet at the address shown at the bottom of this page.

The following DOE technical standards have recently been placed on the Internet:

- DOE-STD-0100T-93, *Licensed Reactor Nuclear Safety Criteria Applicable to DOE Reactors*, November 1993.
- DOE-STD-101-92, *Compilation of Nuclear Safety Criteria for Potential Application to DOE Nonreactor Nuclear Facilities*, March 1992.
- DOE-STD-1029-92, *Writer's Guide for Technical Procedures*, December 1992.
- DOE-STD-3007-93, *Guidelines for Preparing Criticality Safety Evaluations at Department of Energy Non-Reacto Nuclear Facilities*, November 1993.

- DOE-EM-STD-5503-94, *EM Health and Safety Plan Guidelines*, November 1994.

- DOE-HDBK-1016/1-93, *DOE Fundamentals Handbook, Engineering, Symbology, Prints, and Drawings*, January 1993.

- DOE-HDBK-1017/1-93, *DOE Fundamentals Handbook, Material Science*, Volume 1 of 2, January 1993.

- DOE-HDBK-1018/1-93, *DOE Fundamentals Handbook, Mechanical Science*, Volume 1 of 2, January 1993.

- DOE-HDBK-1018/2-93, *DOE Fundamentals Handbook, Mechanical Science*, Volume 2 of 2, January 1993.

- DOE-HDBK-1019/2-93, *DOE Fundamentals Handbook, Nuclear Physics and Reactor Theory*, Volume 2 of 2, January 1993.

- DOE-HDBK-1076-94, *Table-Top Job Analysis*, December 1994.

- DOE-HDBK-1086-95, *Table-Top Training Program Design*, April 1995.

Cancellation of DOE Technical Standards

As discussed in the March 1995 edition of *The Standards Forum*, a significant number of DOE technical standards were originally prepared under the procedures of the Reactor Demonstration and Technology / Nuclear Energy (RDT/NE) Standards Program. Many RDT/NE standards have remained in a technically valid status (e.g., either "Active" or "Inactive for New Design"), even though the standards had issue dates ranging from 5 years to more than 20 years and could no longer be considered to contain technically valid information.

In the August 1995 edition of *Standards Actions*, the Technical Standards Program Office (TSPO) announced its intention to cancel the remaining RDT/NE standards. Based on the comments received, Defense Programs (J. W. Slawski, DP-45) has been assigned as the Preparing Activity for standards NE F 3-42, -43, -44, and -45. The remaining RDT/NE standards (listed below) identified in the August 1995 edition of *Standards Actions* are considered to be canceled. If your organization is interested in assuming the responsibility as the Preparing Activity for any of these standards, please contact the TSPO.

Technical Standards Program Document Status as of 7/31/96

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
23	73	20	1

Total in process = 93



- NE A 1-1T *Coolant Composition in Pressurized Water Reactors (Inactive)* - 10/71.
- NE A 1-5T *Purity Requirements for Operating Sodium Reactor Systems* - 06/81.
- NE C 1-1T *Instrumentation and Control Equipment Grounding and Shielding Practices (w/Amendment 1) (Inactive)* - 01/75.
- NE C 2-1T *Determination of Insulation Compaction in Ceramic Insulated Conductors (w/Amendment 1) (Inactive)* - 09/73.
- NE C 2-3T *Time Response Test for Sheathed, Mineral Insulated Thermocouple Assembly (Inactive)* - 06/72.
- NE C 4-4T *Venturi Flow Tube for Liquid Sodium (Inactive)* - 08/74.
- NE C 4-5T *Permanent Magnet Flowmeter for Liquid-Metal Piping Systems (Inactive)* - 04/74.
- NE C 4-6T *In-Core Permanent-Magnet Flow-Through-Type Flowmeter for Liquid Metal Service (w/Amendments 1 and 2) (Inactive)* - 11/74.
- NE C 4-7T *Eddy-Current Probe Type Flow Sensor for Liquid Metal Service (Inactive)* - 06/73.
- NE C 4-8T *Orifice Assemblies for Nuclear Systems (Inactive)* - 08/73.
- NE C 5-1T *Inductive Level Measurement Sensor for Use in Liquid Metal (Inactive)* - 03/75.
- NE C 5-2T *Resistive Level Measurements Sensor for Use in Liquid Metal (w/Amendment 1) (Inactive)* - 10/71.
- NE C 6-1T *NaK-Transmission High-Temperature Pressure Transmitter for Liquid Metal Service (w/Amendments 2-5) (Inactive)* - 06/74.
- NE C 6-3T *Liquid Metal Pressure Measurement System, Flush-Mounted, Eddy Current Type, Inductive, Absolute or Gage (w/Amendment 1) (Inactive)* - 10/71.
- NE C 7-4T *Thermocouple Material, Copper-Constantan, Mineral-Oxide Insulated, Sheathed (w/Amendment 1) (Inactive)* - 01/73.
- NE C 7-5T *Thermocouple Material, Chromel-P and Alumel, Solid Conductor (Bare, Fiberglass Insulated, and Sheathed over Fiberglass Insulation) (Inactive)* - 01/73.
- NE C 7-6T *Thermocouple Material and Thermocouple Assembly, Chromel-P versus Alumel, Stainless Steel Sheathed, Magnesium Oxide Insulated (w/Amendment 1) - 02/76.*
- NE C 7-15T *Thermocouple Connectors and Thermocouple Connector Panels (w/Amendment 1) (Inactive)* - 01/73.
- NE C 7-16T *Thermocouple Assemblies, Magnesium Oxide Insulated, Stainless Steel Sheathed (Inactive)* - 11/76.
- NE C 7-17T *Platinum Resistance Thermocouple* - 04/75.
- NE C 7-18T *Thermowell Systems for Liquid Metal Service (w/Amendments 1 and 2) (Inactive)* - 05/74.
- NE C 8-2T *Liquid Sodium Bearing Film Thickness, Variable Reluctance Transducer, Proximity Measurement System (Inactive)* - 01/72.
- NE C 8-4T *Electrical Continuity-Type Liquid Metal Leak Detector (w/Amendment 1) (Inactive)* - 06/73.
- NE C 8-5T *Electrochemical Oxygen Meter for Service in Liquid Sodium (Inactive)* - 01/72.
- NE C 8-6T *Hydrogen Meter for Service in Liquid Sodium (Inactive)* - 11/83.
- NE C 8-8T *Specimen Equilibration Device (or Multipurpose Sampler) for the Analysis of Nonmetals in Liquid Sodium (Inactive)* - 07/77.
- NE C 10-1T *Thermocouple Signal Transmitter (Inactive)* - 01/79.
- NE C 10-3T *Multiple Input Preamplifier/Discriminator for Use with Neutron Counters (Inactive)* - 12/75.
- NE C 15-2T *Wide-Range (10 Decade) Neutron Flux Monitoring Channel (Inactive)* - 02/71.
- NE C 15-3T *Current Pulse Preamplifiers for Use with Fission Counters (w/Amendments 1 and 2) (Inactive)* - 10/74.
- NE C 15-5T *Fission Type Neutron Detector Assembly (w/Amendment 1) (Inactive)* - 10/73.
- NE C 15-6T *Logarithmic Mean Square Voltage (MSV) Intermediate Range Neutron Flux Monitoring System (Inactive)* - 07/71.
- NE C 15-7T *Gamma Compensated Ionization Chamber Assembly (Fixed Electrical Compensation) (w/Amendments 1 and 2) (Inactive)* - 03/74.
- NE C 15-8T *Direct Current Power Range Neutron Flux Monitoring System (Inactive)* - 07/71.
- NE C 15-10T *Logarithmic Count Rate Source Range Neutron Flux Monitoring System (Inactive)* - 07/71.
- NE C 15-11T *BF3 Gamma Tolerant Neutron Detector Tubes (Inactive)* - 12/75.
- NE C 16-1T *Supplementary Criteria and Requirements for RDT Reactor Plant Protection Systems (Inactive)* - 12/69.
- NE C 16-2T *Protection System Logic (w/Amendment 1) (Inactive)* - 06/73.
- NE C 16-3T *PPS Buffers (w/Amendment 1) (Inactive)* - 12/71.
- NE C 16-4T *Protection System Comparator (w/Amendment 1) (Inactive)* - 06/73.
- NE C 17-1T *High-Temperature Electrical Connectors and Hermetic Seals (Inactive)* - 03/70.
- NE C 17-5T *Metal-Sheathed, Mineral-Insulated Cable Bulk Material (w/Amendment 1) - 04/74.*
- NE C 17-8T *Annunciators for Control Systems (w/Amendment 1) (Inactive)* - 08/73.
- NE C 17-9T *Foil-Shielded Instrumentation Cable (Inactive)* - 06/74.
- NE C 18-1T *Ceramic Electrical Insulators (w/Amendment 1) - 06/80.*
- NE E 1-6T *Automatic Spring-Loaded Safety Valves (w/Amendment 1) (Inactive)* - 01/73.

- NE E 1-9T *Stainless Steel Gate Valves, Manual and Power Operated (w/Amendment 1) (Inactive) - 05/74.*
- NE E 1-12T *Stainless Steel Check Valves (w/Amendment 1) (Inactive) - 05/74.*
- NE E 1-13T *Valve, Isolation, Butterfly Type (w/Amendment 1) (Inactive) - 05/74.*
- NE E 1-18T *Class 1 Valves for Liquid Metal Service (Inactive) - 05/75.*
- NE E 1-19T *Class 2 Valves for Liquid Metal Service (Inactive) - 06/74.*
- NE E 1-21T *Stainless Steel Globe and Angle Valves, Manual and Power Operated (Inactive) - 03/72.*
- NE E 1-25T *Instrument Valves (Inactive) - 04/72.*
- NE E 1-31T *Carbon Steel Isolation Valves (w/Amendment 1) (Inactive) - 05/74.*
- NE E 3-1T *Vertical, Canned or Wet Motor-Driven Single-Stage Centrifugal Pump (w/Amendment 1) (Inactive) - 05/74.*
- NE E 3-3T *Vertical, Shaft-Sealed, Motor-Driven, Single-Stage Centrifugal Pump (w/Amendment 1) (Inactive) - 05/74.*
- NE E 3-6T *Horizontal, Electrical Motor-Driven, Single-Stage Centrifugal Pump (w/Amendment 1) (Inactive) - 05/74.*
- NE E 3-7T *Reciprocating Positive Displacement Pump (w/Amendment 1) (Inactive) - 05/74.*
- NE E 3-9T *Electromagnetic Pump for Liquid Metal Service (w/Amendments 1, 2, and 3) (Inactive) - 05/74.*
- NE E 4-1T *Steam Generator for Pressurized Water Reactors (Inactive) - 12/71.*
- NE E 4-2T *Heat Exchanger, Class 1, Water-to-Water, Straight or U-Tube (Inactive) - 06/73.*
- NE E 4-5T *Forced-Circulation Cold Trap Assembly for Removal of Sodium Impurities (Inactive) - 01/76.*
- NE E 4-6T *Intermediate Heat Exchanger for Liquid Metal Systems (w/Amendment 1) (Inactive) - 04/75.*
- NE E 4-7T *Sodium to Air Heat Exchanger (w/Amendments 1-4) (Inactive) - 01/74.*
- NE E 4-13T *Freeze Vent for Sodium Service (w/Amendments 1 and 2) (Inactive) - 12/71.*
- NE E 4-14T *Vapor Trap Assemblies for Sodium Service (w/Amendments 1 and 2) (Inactive) - 01/74.*
- NE E 4-17T *Heat Exchanger, Class 2, Water-to-Water, Straight or U-Tube (Inactive) - 07/71.*
- NE E 4-18T *Air-Cooled Heat Exchanger for Nuclear Steam-Supplied Systems (Inactive) - 03/71.*
- NE E 4-19T *Plugging Temperature Indicator Assembly for Sodium Service (Inactive) - 04/75.*
- NE E 5-2T *Electric Heater and Connector Assembly for Pressurizer for Pressurized Water Reactors (Inactive) - 05/72.*
- NE E 6-1T *Near-Isotropic Petroleum-Coke Based Graphites for High Temperature Gas-Cooled Reactor Core Components (Inactive) - 10/77.*
- NE E 6-5T *Collapsible-Rotor, Roller-Nut Control Rod Drive Mechanism for Sodium Service (w/Amendments 1-3) (Inactive) - 09/74.*
- NE E 6-19T *Radial Reflector Assembly for Liquid Metal Fast Breeder Reactors (Inactive) - 03/78.*
- NE E 6-25T *Control Rod Absorber Pin for Liquid Metal Fast Breeder Reactors (w/Amendment 1) (Inactive) - 01/77.*
- NE E 6-30T *Absorber Pin Boron Carbide Pellet (Inactive) - 09/76.*
- NE E 6-33T *Control Rod Assembly for Liquid Metal Fast Breeder Reactors (w/Amendment 1) (Inactive) - 06/78.*
- NE E 6-38T *Low Friction Hard Surfaces for Core Components (w/Amendment 1) (Inactive) - 09/73.*
- NE E 6-40T *Piston Rings of High Strength Alloys for Core Components for Liquid Metal Service (Inactive) - 05/74.*
- NE E 7-4T *Mixing Component for Liquid Metal Piping Systems (w/Amendments 1 and 2) (Inactive) - 06/74.*
- NE E 7-9T *Mechanical and Hydraulic Snubbers for Nuclear Applications - 09/84.*
- NE E 8-13T *Oxygen-Hydrogen Meter Module for Service in Liquid Sodium (Inactive) - 01/72.*
- NE E 8-18T *Threaded Fasteners for Nuclear Components (Inactive) - 09/81.*
- NE E 10-3T *Tank -Liquid Metal Service (w/Amendments 1-3) (Inactive) - 05/74.*
- NE E 10-4T *Accumulators Pressure Vessel, Class 2 (Inactive) - 03/73.*
- NE E 10-7T *Blowdown Suppression Tank (Inactive) - 05/72.*
- NE E 11-1T *Ion Exchanger, Non-Regenerative Type (Inactive) - 05/72.*
- NE E 12-4T *Shielded Shipping Cask for Spent Reactor Fuel Elements (w/Amendment 1) - 12/73.*
- NE E 12-5T *Operating Manuals for Fuel Shipping Containers (Inactive) - 01/75.*
- NE E 12-7T *Inspection and Preventive Maintenance of Fuel Shipping Containers - 01/75.*
- NE E 13-1T *Ceramic Grade Plutonium Dioxide (Inactive) - 12/81.*
- NE E 13-2T *Ceramic Grade Uranium Dioxide (w/Amendment 1) - 12/74.*
- NE E 13-3T *Fast Flux Test Facility Uranyl Nitrate Solution (Inactive) - 06/71.*
- NE E 13-4T *Fast Flux Test Facility Plutonium Nitrate Solution (Inactive) - 06/71.*
- NE E 13-5T *Fast Breeder Reactor Fuel Pin - 06/71.*
- NE E 13-6T *Fast Breeder Reactor Mixed Oxide Fuel Pellet (w/Amendment 1) - 06/71.*
- NE E 13-7T *Fast Breeder Reactor Uranium Dioxide Pellet - 01/84.*

- NE E 13-16T *Fast Breeder Reactor Assembly* - 09/77.
- NE E 15-2NB-T *Class 1 Nuclear Components* (Supplement to ASME Boiler and Pressure Vessel Code, Section III, Subsections NCA and NB) (Inactive) - 08/83.
- NE E 15-2NC-T *Class 2 Nuclear Components* (Supplement to ASME Boiler and Pressure Vessel Code, Section III, Subsections NCA and NC) (Inactive) - 03/82.
- NE E 15-2ND-T *Class 3 Nuclear Components* (Supplement to ASME Boiler and Pressure Vessel Code, Section III, Subsections NCA and ND) (Inactive) - 11/81.
- NE E 15-2NE -T *Class MC Nuclear Components* (Supplement to ASME Boiler and Pressure Vessel Code, Section III, Subsections NCA and NE) (Inactive) - 08/75.
- NE E 16-1T *Test Vehicles for Transient Reactor Test Facility (TREAT) Experiments Containing Sodium* (Inactive) - 08/74.
- NE F 1-1 *Preparation and Application of RDT Standards (w/ Amendment 1)* (Inactive) - 06/77.
- NE F 1-2T *Preparation of Plant and System Design Description Documents* (see conversion project FACR-0001) - 01/89.
- NE F 1-3T *Preparation of Unusual Occurrence Reports (w/ Amendment 1)* (Inactive) - 12/77.
- NE F 2-2 *Quality Assurance Program Requirements (w/ Amendments 1-7)* (Inactive) - 01/82.
- NE F 2-4 *Quality Verification Program Requirements* (Inactive) - 01/81.
- NE F 2-6T *Quality and Control of Analytical Chemistry Laboratories for Mixed Oxide Fuel Analysis* (Inactive) - 03/79.
- NE F 2-7T *Acceptance Sampling Plans* - 11/73.
- NE F 2-8T *Qualification and Control of Analytical Chemistry Laboratories for Control Rod Absorber Material Analysis* (Inactive) - 12/78.
- NE F 2-9T *Reliability Assurance* - 06/74.
- NE F 2-10 *Quality Assurance Program Requirements* (Supplement to ANSI/ASME NQA-1) (Inactive) - 8/85.
- NE F 3-2T *Calibration Program Requirements* (Inactive) - 02/73.
- NE F 3-6T *Nondestructive Examination* (Supplement to ASME Boiler and Pressure Vessel Code, Section V) (Inactive) - 02/83.
- NE F 3-7T *Inspection Requirements for Materials Used in Reactor Coolant System Wear Applications* (Inactive) - 10/67.
- NE F 3-10T *Nondestructive Examination of Reactor Core Components (w/Amendments 1 and 2)* (Inactive) - 07/80.
- NE F 3-11T *Mass Spectrometer Helium Leak Detection for Instruments and Small Components* (Inactive) - 02/72.
- NE F 3-39T *Testing of High Temperature Cable for Nuclear Detectors* (Inactive) - 08/71.
- NE F 3-41T *In-Place Testing of HEPA Filter Systems by the Single-Particle, Particle-Size Spectrometer Method* - 12/81.
- NE F 4-20T *Operation and Maintenance Manuals* (Inactive) - 10/71.
- NE F 5-1T *Cleaning and Cleanliness Requirements for Nuclear Components* (Inactive) - 01/78.
- NE F 5-9T *Sodium Removal Processes* (Inactive) - 04/77.
- NE F 5-10T *Decontamination of Hot Leg LMFBR Components* (Inactive) - 02/84.
- NE F 6-2T *Welding of Reactor Core Components and Test Assemblies* - 07/73.
- NE F 6-5T *Welding and Brazing Qualifications* (Supplement to ASME Boiler and Pressure Vessel Code, Section IX) (Inactive) - 03/83.
- NE F 6-6T *Welding of Structural Components* (AWS D1.1 with Additional Requirements) (Inactive) - 06/73.
- NE F 6-11T *Fabrication and Installation of Piping Subassemblies for Liquid Metal Service (w/Amendments 1 and 2)* (Inactive) - 06/73.
- NE F 7-2T *Packaging, Packing, and Marking of Components for Shipment and Storage (w/Amendment 1)* - 01/76.
- NE F 7-3T *Marking of Components and Parts (w/Amendment 1)* - 10/78.
- NE F 8-6T *Hoisting and Rigging of Critical Components and Related Equipment* - 11/85.
- NE F 8-9T *Design Basis for Fuel and Irradiations Experiment Resistance to Shock and Vibration in Truck Transport* - 02/75.
- NE F 8-11T *Fuel Shipping Container Tiedown for Truck Transport* - 01/75.
- NE F 9-2T *Seismic Requirements for Design of Nuclear Power Plants and Nuclear Test Facilities* - 02/85.
- NE F 9-4T *Requirements for Design of Class 1 Elevated Temperature Nuclear System Components* (Supplement to ASME Code Case N-47) (see conversion project GDRQ-0002) - 06/86.
- NE F 9-5T *Guidelines and Procedures for Design of Class 1 Elevated Temperature Nuclear System Components* (see conversion project GDRQ-0003) - 09/86.
- NE F 11-1T *Analytical Chemistry Methods for Mixed Oxide Fuel* - 03/85.
- NE F 11-2T *Analytical Chemistry Methods for Boron Carbide Absorber Material* - 03/85.
- NE F 11-3T *Analytical Chemistry Methods for Metallic Core Components* - 03/85.
- NE F 11-4T *Determination of a Figure of Merit for PuO₂-UO₂ Fuel Pellet Homogeneity by Use of an Electron Microprobe* (Inactive) - 09/72.
- NE F 11-5T *Determination of Fuel Pellet Homogeneity by Alpha-Autoradiography* (Inactive) - 10/80.
- NE M 1-1T *Stainless Steel Covered Welding Electrodes* (ASME SFA-5.4 with Additional Requirements) (Inactive) - 08/82.
- NE M 1-2T *Stainless Steel Welding Rods and Bare Electrodes* (ASME SFA-5.9 with Additional Requirements) (Inactive) - 08/82.

- NE M 1-3T *Mild Steel Covered Welding Electrodes* (ASME SFA-5.1 with Additional Requirements) (Inactive) - 08/82.
- NE M 1-4T *Low Alloy Steel Covered Welding Electrodes* (ASME SFA-5.5 with Additional Requirements) (Inactive) - 08/82.
- NE M 1-5T *Welding Rods and Electrodes, Surfacing* (ASME SFA-5.13 with Additional Requirements) (Inactive) - 10/81.
- NE M 1-6T *Mild Steel Electrodes for Gas Metal-Arc Welding* (ASME SFA-5.18 with Additional Requirements) (Inactive) - 10/81.
- NE M 1-9T *Brazing Filler Metal* (ASME SFA-5.8 with Additional Requirements) (Inactive) - 10/81.
- NE M 1-10T *Nickel and Nickel Alloy Covered Welding Electrodes* (ASME SFA-5.11 with Additional Requirements) (Inactive) - 10/81.
- NE M 1-11T *Nickel and Nickel-Alloy Bare Welding Rods and Electrodes* (ASME SFA-5.14 with Additional Requirements) (Inactive) - 10/81.
- NE M 1-17T *Bare Carbon Steel Electrodes and Fluxes for Submerged Arc Welding* (ASME SFA-5.17 with Additional Requirements) (Inactive) - 08/82.
- NE M 1-19T *Nickel-Chromium-Molybdenum-Columbium Bare Welding Rods and Electrodes* (Inactive) - 11/81.
- NE M 1-20T *Mild Steel Electrodes for Flux-Cored Arc Welding* (ASME SFA-5.20 with Additional Requirements) (Inactive) - 08/79.
- NE M 1-21T *Consumable Welding Inserts* (Inactive) - 03/82.
- NE M 1-22T *Bare Low-Alloy Steel Electrodes and Fluxes for Submerged Arc Welding* (ASME SFA-5.23 with Additional Requirements) (Inactive) - 10/82.
- NE M 1-23T *2-1/4%-Chromium, 1%-Molybdenum Alloy Bare Welding Rods and Electrodes* (Inactive) - 10/81.
- NE M 2-3T *Carbon and Alloy Steel Welding Fittings* (ASME SA-234 with Additional Requirements) (Inactive) - 02/83.
- NE M 2-5T *Austenitic Stainless Steel Welding Fittings* (ASME SA-403 with Additional Requirements) (Inactive) - 08/82.
- NE M 2-6T *Martensitic Stainless Steel (Type 403) Forgings* (ASME SA-182 with Additional Requirements) (Inactive) - 08/82.
- NE M 2-15T *Nickel-Chromium Alloy Bars, Forgings, and Forging Stock* (ASME SA-637 with Additional Requirements) (Inactive) - 03/82.
- NE M 2-18T *Precipitation Hardening Nickel Alloy Bars, Forgings, and Forging Stock for High-Temperature Service* (ASTM A637 with Additional Requirements) (Inactive) - 08/79.
- NE M 2-19T *2-1/4%-Chromium, 1%-Molybdenum Alloy Steel Tubesheet Forgings* (ASME SA-336 with Additional Requirements) (Inactive) - 08/82.
- NE M 2-20T *Nickel Alloy Forgings* (ASME SB-564 with Additional Requirements) (Inactive) - 08/82.
- NE M 2-21T *Forgings and Bars for Nuclear and Other Special Applications* (ASME SA-654 with Additional Requirements) (Inactive) - 04/82.
- NE M 3-4T *Nickel Alloy Seamless Tubes* (ASME SB-163 with Additional Requirements) (Inactive) - 09/82.
- NE M 3-9T *Nickel-Iron-Chromium Alloy Seamless Pipe and Tubing* (ASME SB-407 with Additional Requirements) (Inactive) - 03/82.
- NE M 3-27T *Seamless and Welded Small Diameter Austenitic Stainless Steel Tubing* (ASTM A632 with Additional Requirements) (Inactive) - 08/79.
- NE M 3-29T *Nickel-Chromium-Molybdenum-Columbium Alloy Seamless Tubes* (AMS 5589 with Additional Requirements) (Inactive) - 04/76.
- NE M 3-30T *Nickel-Chromium-Molybdenum-Columbium Alloy Seamless Tubes* (AMS 5590 with Additional Requirements) (Inactive) - 04/76.
- NE M 3-33T *2-1/4%-Chromium, 1%-Molybdenum Alloy Steel Seamless Tubes* (ASME SA-213 with Additional Requirements) (Inactive) - 09/82.
- NE M 3-34T *Pipe and Tubing for Nuclear and Other Special Applications* (ASME SA-655 with Additional Requirements) (Inactive) - 06/82.
- NE M 4-3T *Cobalt-Chromium Alloy Castings* (Inactive) - 07/75.
- NE M 4-6T *Steel Castings for Nuclear and Other Special Applications* (ASME SA-613 with Additional Requirements) (Inactive) - 09/81.
- NE M 5-4T *Nickel-Chromium-Iron Alloy Plate, Sheet, and Strip* (ASME SB-168 with Additional Requirements) (Inactive) - 06/81.
- NE M 5-7T *Nickel-Iron-Chromium Alloy Plate, Sheet, and Strip* (ASME SB-409 with Additional Requirements) (Inactive) - 05/82.
- NE M 5-19T *Austenitic Stainless Steel Plate, Sheet, and Strip for Core Components* (Inactive) - 03/73.
- NE M 5-20T *Nickel-Chromium-Molybdenum-Columbium Alloy Plate, Sheet, and Strip* (AMS 5597 with Additional Requirements) (w/Amendment 1) (Inactive) - 11/75.
- NE M 5-21T *Nickel-Chromium-Molybdenum-Columbium Alloy Plate, Sheet, and Strip* (AMS 5596 with Additional Requirements) (Inactive) - 04/75.
- NE M 5-23T *Steel Plates for Nuclear and Other Special Applications* (ASME SA-647 with Additional Requirements) (Inactive) - 03/82.
- NE M 6-1T *Alloy Steel Bolting Material for Low-Temperature Service* (ASME SA-320 with Additional Requirements) (Inactive) - 02/82.
- NE M 6-2T *Mechanical Locking Devices* (w/Amendment 1) (Inactive) - 10/71.
- NE M 6-3T *Alloy Steel Bolting Material for High-Temperature Service* (ASME SA-193 with Additional Requirements) (Inactive) - 09/82.
- NE M 6-4T *Alloy Steel Nuts for Bolting for High-Pressure and High-Temperature Service* (ASME SA-194 with Additional Requirements) (Inactive) - 09/82.

- NE M 6-5T *Alloy Steel Bolting Material for Special Applications* (ASME SA-540 with Additional Requirements) (Inactive) - 01/82.
- NE M 6-6T *High-Strength, High-Temperature Bolting Materials* (ASME SA-543 with Additional Requirements) (Inactive) - 02/82.
- NE M 7-1T *Martensitic Stainless Steel (Type 403) Bars* (ASTM A276 with Additional Requirements) (Inactive) - 03/82.
- NE M 7-3T *Alloy Steel Bars and Shapes* (ASME SA-479 with Additional Requirements) (Inactive) - 08/82.
- NE M 7-4T *Nickel-Chromium-Iron Alloy Rod and Bar* (ASME SB-166 with Additional Requirements) (Inactive) - 08/82.
- NE M 7-6T *Precipitation-Hardening Stainless Steel Bars, Shapes, and Forgings* (ASME SA-564 with Additional Requirements) (Inactive) - 09/82.
- NE M 7-7T *Cobalt-Chromium Alloy Bars and Shapes* (Inactive) - 01/81.
- NE M 7-10T *Nickel-Iron-Chromium Alloy Rod and Bar* (ASME SB-408 with Additional Requirements) (Inactive) - 09/82.
- NE M 7-24T *Austenitic Stainless Steel Wire for Core Components* (Inactive) - 03/73.
- NE M 8-1T *Helical Age-Hardenable Nickel-Chromium-Iron Alloy Springs* (Inactive) - 01/81.
- NE M 12-4T *Reflective Insulation* (w/Amendment 1) - 10/74.
- NE M 12-5T *Thermal Insulation, Flexible or Molded, High Temperature, Low Conductivity* (w/Amendment 1) (Inactive) - 04/73.
- NE M 14-1T *Sodium Cover Gas -Purchase Specifications* (w/Amendment 1) - 01/75.
- NE M 14-2T *Fuel and Control Assembly Tag Gas* - 01/86.
- NE M 16-1T *Gas-Phase Adsorbents for Trapping Radioactive Iodine and Iodine Compounds* - 10/81.
- NE M 17-1T *Sodium Carbonate, Low-Chloride Fire Extinguishing Agent* (w/Amendment 1) (Inactive) - 04/74.
- NE P 3-1T *Electric Penetration Assemblies in Containment Structures* (IEEE 317 with Additional Requirements) (Inactive) - 01/79.
- NE P 4-1T *Electric Heaters -Simulated LMFBR Fuel Pins* (Inactive) - 03/72.
- NE P 4-3T *Metal-Sheathed, Mineral-Insulated Electric Resistance Heaters* - 03/75.

Non-Government Standards

American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, call

Bethany Marks at 212-642-4948. For further information on distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a complete listing of changes and new publications, standards developing organizations, and additional information about submitting comments.

The following American National Standards are currently in coordination:

- ASME NUM-1, *Rules for Construction of Cranes, Monorails, and Hoists (with Bridge or Trolley or Hoist of the Underhung Type)* (new standard); comments due September 3, 1996.
- AWS B2.1-8-212, *Standard Welding Procedure Specification (WPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8/p-8/s-8, Group 1), 1/8 through 1-1/2 inch Thick E3XX-XX, As-Welded Condition* (new standard); comments due September 17, 1996.
- EIA SP-3137, (*if approved, to be published as ANSI/EIA 364*), *Nanosecond Event Detection for Electrical Connectors, Contacts and Sockets* (new standard); comments due September 3, 1996.
- ISO MC96-1, *Temperature Measurement Thermocouples* (new standard); comments due September 3, 1996.
- NEMA IA 2.4, *Programmable Controllers - Part 4: User Guidelines* (new standard); comments due September 3, 1996.
- UL 2106, *Standard for Safety for Field Erected Boiler Assemblies* (new standard); comments due September 3, 1996.
- UL 3044, *Standard for Safety for Surveillance Closed Circuit Television Equipment* (new standard); comments due September 3, 1996.

The following newly published American National Standards are available from ANSI:

- ANSI/AGA NGV3.1/CGA 12.3-1995, *Fuel System Components for Natural Gas Powered Vehicles*.
- ANSI C84.1-1995, *Electric Power Systems and Equipment - Voltage Ratings (60 Hz)*.
- ANSI/HI 2.1-2.5-1994, *Vertical Pumps for Nomenclature, Definitions, Application and Operation*.
- ANSI N14.1-1995, *Nuclear Materials - Uranium Hexafluoride - Packaging for Transport*.
- ANSI Z21.76-1994, *Gas-Fired Unvented Catalytic Room Heaters for Use with Liquefied Petroleum (LP) Gases*.

The following international standards are currently in coordination (comment due dates follow each entry):

- 45B/175/FDIS, IEC 1559: *Radiation in nuclear facilities - Centralized system for continuous monitoring of radiation and/or levels of radioactivity* - August 16, 1996.

- ISO/DIS 4269-1, *Petroleum and liquid petroleum products - Tank calibration by liquid measurement - Part 1: Incremental method using volumetric meters* - September 13, 1996.
- ISO/DIS 1116, *Gas Cylinders - 17E Taper thread for connection of valves to gas cylinders - Specifications* - September 27, 1996.
- ISO/DIS 13734, *Natural gas - Organic sulfur compounds used as odorants - Requirements and test methods* - September 20, 1996.
- ISO/DIS 10439, *Centrifugal compressors for general refinery service in the petroleum and natural gas industries* - September 20, 1996.
- ISO/DIS 23950, *Information and documentation - Information retrieval (Z39.50) - Application service definition and protocol specification* - September 13, 1996.
- prEN 12424, *Industrial, commercial and garage doors and gates - Resistance to wind load - Requirements and classification* - November 6, 1996.
- prEN 12431, *Thermal insulating products for building applications - Determination of thickness for floating floor insulating products* - November 6, 1996.
- prEN 12434, *Cryogenic vessels - Cryogenic flexible hoses* - November 6, 1996.
- prEN 12437-1, *Safety of machinery - Permanent means of access to machines and industrial plants - Part 1: Choice of a fixed means of access between two levels* - November 6, 1996.
- prEN 12438, *Magnesium and magnesium alloys - Magnesium alloys for cast anodes* - November 6, 1996.
- prEN 50236: 1996, *Electromagnetic compatibility for power transformers* - October 4, 1996.
- prEN ISO 14040, *Environmental management - Life cycle assessment - Principles and framework (ISO/DIS 14040: 1996)* - October 13, 1996.
- prHD 384.4.443 S1: 1996, *Electrical installations of buildings - Part 4: Protection for safety - Chapter 44: Protection against overvoltages - Section 443: Protection against overvoltages of atmospheric origin or due to switching (IEC 364-4-443: 1995)* - October 4, 1996.

The following newly published international standards are available from ANSI:

- IEC 870-5-102: 1996, *Telecontrol equipment and systems - Part 5: Transmission protocols - Section 102: Companion standard for the transmission of integrated totals in electric power systems.*
- IEC 912: 1996, *Nuclear instrumentation - ECL (Emitter Coupled Logic) front panel interconnection in counter logic.*
- ISO Guide 34: 1996, *Quality system guidelines for the production of reference materials.*
- ISO 157: 1996, *Coal - Determination of forms of sulfur.*
- ISO 8373: 1994/Amd. 1 1996, *Manipulating industrial robots - Vocabulary - Amendment 1: Annex B - Multilingual annex.*

American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9692. ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9743 (FAX 610-832-9666). ASTM is developing a World Wide Web home page. The current version can be visited at <http://www.astm.org>. The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

The following ASTM standards are currently in coordination:
(the due date for all items is August 10, 1996).

- New Standard, *Practice for Conducting Ruggedness Test in Developing Refractory Test Methods* (Ref. Z6008Z).
- New Standard, *Guide for Composite Sampling and Field Subsampling for Environmental Waste Management Activities* (Ref. Z5573Z).
- New Standard, *Practice for Determining Thermal Endurance of Materials* (Ref. Z4492Z).
- New Standard, *Specification for Clampstick Type Live Line Tools* (Ref. Z3422Z).
- D 5956, *Guide for Sampling Strategies for Heterogenous Wastes* (new standard).

The following newly published standards are available from ASTM:

- A 688/A 688M-96, *Specification for Welded Austenitic Stainless Steel Feedwater Heater Tubes* (revised standard).
- B 543-96, *Specification for Welded Copper and Copper-Alloy Heat Exchanger Tube* (revised standard).
- C 1309-95, *Practice for Performance Evaluation of In-Plant Walk-Through Metal Detectors* (new standard).
- C 1316-95, *Test Method for Non-Destructive Assay of Nuclear Material in Scrap and Waste by Passive-Active Neutron Counting Using a 252cf Shuffler* (new standard).
- C 1327-96, *Test Method for Vickers Indentation Hardness of Advanced Ceramics* (new standard).
- D 4227-95 (Includes change to title), *Practice for Qualification of Journeyman Painters for Application of Coatings to Concrete Surfaces of Safety Related Areas in Nuclear Power Facilities* (revised standard).
- D 5831-95, *Test Method for Screening Fuels in Soil* (new standard).
- D 5851-95, *Guide for Planning and Implementing a Water Monitoring Program* (new standard).

- D 5854-96, *Practice for Mixing and Handling of Liquid Samples of Petroleum and Petroleum Products* (new standard).
- D 5865-95, *Test Method for Gross Calorific Value of Coal and Coke* (new standard).
- D 5877-95, *Guide for Displaying the Results of Chemical Analyses of Ground Water for Major Ions and Trace Elements -- Diagrams Based on Data Analytical Calculations* (new standard).
- F 1646-95, *Terminology Relating to Safety and Traction for Footwear* (new standard).

American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

American Society for Quality Control

Office: 611 East Wisconsin Avenue
Milwaukee, WI 53201-3005

Contact: Patricia Kopp

- ASQC Z1.14, *Guideline for Implementation of Statistical Process Control* (new standard).

National Electrical Manufacturers Association

Office: 1330 North 17th Street
Rosslyn, VA 22209

Contact: Daniel M. Threlkel

- NEMA IA 2.4, *Programmable Controllers - Part 4: User Guidelines* (new standard).

Underwriters Laboratories, Inc.

Office: 12 Laboratory Drive
Northbrook, IL 60062-2096
Research Triangle Park, NC 27709-3995

Contact: Deborah Prince

- UL 391, *Standard for Safety for Solid-Fuel and Combination-Fuel Central and Supplementary Furnaces* (revision).

Comments or Questions

If you have any questions or comments, please contact Rick Serbu (EH-31), Manager, DOE Technical Standards Program Office (TSPO), phone 301-903-2856, FAX 301-903-6172, Email Richard.Serbu@hq.doe.gov. Questions or comments may also be referred to Don Spellman, c/o Performance Assurance Project Office, Oak Ridge National Laboratory, P.O. Box 2009, Oak Ridge, Tennessee 37831-8065, phone 423-574-7891, FAX 423-574-0382, Email spellmandj@ornl.gov.

The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 423-574-7886, Email lj8@ornl.gov.



Standards *Actions*

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