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		PHONE	☐ 3. AMENDMENT	C. COMMENTS
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UCN-8108 (3 11-79)

Siana H. Morris

D. H. Morris, Nuclear Standards
Program Information Center

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MASTER INDEX

JANUARY 1981

U.S. DEPARTMENT OF ENERGY NUCLEAR ENERGY PROGRAMS

Send copy and distribution inquiries to:

Nuclear Standards Office
Oak Ridge National Laboratory
Building 9204-1, Room 321, M/S 10
P.O. Box Y
Oak Ridge, Tennessee 37830

Printed in the United States of America
USDOE Technical Information Center; Oak Ridge, Tennessee

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NE(RDT) STANDARDS CATEGORIES

PROGRAMS, PROCEDURES, METHODS OPERATION Α 1 Program Administration, Miscellaneous 1 Coolant, Coolant Control Quality Assurance 2 Radiation Control, Safety 3 Testing Maintenance INSTRUMENTATION AND CONTROLS Cleaning, Marking, Packaging Fabrication 1 Instrumentation Practices Identification 2 Test Equipment Construction, Installation Control, Data Centers Design 4 Flow Measurement 10 Fire Protection Methods 5 Level Measurement 11 Chemical and Physical Analysis, 6 Pressure Measurement Experimental Data Handling 7 Temperature Measurement 8 Miscellaneous Sensors, Transmitters MATERIALS 9 Readout Devices 10 Signal Conditioners 1 Welding Rods, Electrodes 11 Controllers 2 Fittings, Flanges, Forgings 12 Analytical Instrumentation 3 Pipe, Tubing 13 Computers 4 Castings 14 Radiation Measurement, Monitoring Plate, Sheet, Strip 15 Neutron Flux Measurement Bolting, Bolting Materials 16 Reactor Protection Bar, Rod, Wire, Extruded Shapes 17 Miscellaneous Components, Materials Springs 18 Electric Insulators 9 Metallic Seals Ingots EOUIPMENT--MECHANICAL, FLUID E Seals, Gaskets, Packings 12 Thermal Insulation 1 Valves 13 Liquids 2 Reactor Vessels 14 Gases 3 Pumps 15 Paints, Protective Coatings 4 Heat Transfer Equipment 16 Adsorbents, Adsorbent Filter Materials 5 Pressurizers 17 Miscellaneous Reactor Internal Structures, Core Components, Control Rod Drives ELECTRICAL 7 Piping 8 Special Mechanisms 1 Wire, Cable 9 Air Handling 2 Power Systems and Equipment 10 Vessels, Tanks Electrical Penetrations 11 Liquid Purification, Treatment Heating Equipment 12 Shielded Casks, Carriers 5 Motors, Drives 13 Reactor Fuels, Materials, Assemblies 14 Seals, Static and Dynamic STRUCTURES, BUILDINGS 15 Systems, Multiple Components 16 Irradiation, Experiment and Test Components

17 Process Equipment

ABBREVIATIONS AND ACRONYMS

	PROJECTS		DOE OFFICES AND DIVISIONS
BRP	Breeder Reactor Program	CRBRPO-OR	Clinch River Breeder Reactor Plant
FBR	Fast Breeder Reactor		Project Office
FFTF	Fast Flux Test Facility	FFTFPO-RL	Fast Flux Test Facility Project Office
HTGR	High-Temperature Gas-Cooled Reactor	NEP	Nuclear Energy Programs
LMFBR	Liquid-Metal Fast Breeder Reactor	OLWR	Office of Light Water Reactors
LWR	Light Water Reactor	OLWR-NFC	Nuclear Fuel Cycle Division
		OLWR-MS	Materials and Structures Division
	CONTRACTOR ORGANIZATIONS	OLWR-SSE	Systems and Safety Evaluation Division
		RRT	Office of Reactor Research and Technology
ANL	Argonne National Laboratory	RRT-EC	Engineered Components Division
ARD	Westinghouse, Advanced Reactor Division	RRT-FD	Fuels Division
ARSD	Advanced Reactor Systems Department	RRT-FM	Facilities Management Division
ETEC	Energy Technology Engineering Center	SRO	Savannah River Operations Office
GA GE	General Atomic Company General Electric	osq	Office of Safety, Quality Assurance, and Safeguards
HEDL	Hanford Engineering Development Laboratory	OSQ-QAS	Quality Assurance and Standards Division
LASL	Los Alamos Scientific Laboratory	osq-os	Operational Safety Division
ORNL	Oak Ridge National Laboratory	OWT	Office of Waste Operations and Technology
OIIII2	our mage nactonat basolatory	OWT-TD	Technology Division
		ANSP	Office of Advanced Nuclear Systems and Projects
		ANSP-GCR	Gas Cooled Reactor Division

LEGEND FOR REMARKS

Discontinued.	Previously published as tentative standard. Listed in Index of NE(RDT) standards for information only.	Published.	Tentative standard. Listed in Index of NE(RDT) Standards. Available for distribution.
Draft in Work.	Work is in progress.	Withdrawn.	Standard was shown in previous issue of Master Index and has since been withdrawn.
Not in Work.	Work has not begun or has been deferred.		
Development Withheld.	Work has been deferred pending identification of need.	Inactive.	Previously published standard that may no longer be appropriate for application because its currency is not maintained.

A - OPERATION

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
A 1-1T	Coolant Composition in Pressurized Water Reactors (10-71)	ORNL/ C. A. Burchsted	NEP/ OSQ-OS/ N. P. Klug	Published.
A 1-2	Recommended Practices for Control of Coolant Composition in Boiling Water Reactors ()	ORNL/	//	Development withheld.
A 1-3	Recommended Practices for Control of Coolant Composition in Light-Water Cooled Test, Research and Experimental Reactors ()	ORNL/	//	Development withheld.
A 1-5T	Purity Requirements for Operating Sodium Reactor Systems (4-80)	HEDL/	NEP/ FFTFPO-RL/ A. R. DeGrazia	Published.

NE(RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
C 1-1T	Instrumentation and Control Equipment Grounding and Shielding Practices (1-73)	HEDL/	NEP/ CRBRPO-OR/ D. R. Hicks	Published.
C 2-1T	Determination of Insulation Compaction in Ceramic Insulated Conductors (8-70)	 ORNL/ J. H. Holladay	NEP/ RRT-EC/	Published.
С 2-3Т	Time Response Test for Sheathed, Mineral Insulated Thermocouple Assembly (6-72)	ORNL/ J. H. Holladay	 NEP/ RRT-EC/ F. A. Ross	Published.
C 4-1T	Orifice Plate for Orifice Flange Union (1-71)	/	//	Discontinued.
C 4-4T	Venturi Flow Tube for Liquid Sodium (8-74)	ETEC/ DeVita	NEP/ OLWR-MS/ J. R. Hunter	Published.
C 4-5T	Permanent Magnet Plowmeter for Liquid-Metal Piping Systems (4-74)	 ETEC/ V. DeVita	NEP/ RRT-EC/	Published.
C 4-6T	In-Core Permanent-Magnet Flow-Through-Type Flowmeter for Liquid Metal Service (4-73)	ANL/ W. C. Kaiser	NEP/ RRT-EC/ F. A. Ross	Published.
С 4-7 т 1	Eddy-Current Probe Type Flow Sensor for Liquid Metal Service (6-73) 	HEDL/ L. E. Fort	 NEP/ FFTFPO-RL/ J. R. Patterson	Published.
C 4-8T	Orifice Assemblies for Nuclear Systems (8-73)	HEDL/ T. J. Conrads	NEP/ OLWR-MS/ J. R. Hunter	Published.
C 5-1T	Inductive Level Measurement Sensor for Use in Liquid Metal (3-75)	ETEC/ Klea	NEP/ RRT-EC/	Published.
C 5-2T	Resistive Level Measurement Sensor for Use in Liquid Metal (4-70)	! ETEC/ J. A. Klea 	NEP/ OLWR-MS/ J. R. Hunter	Published.
C 5-3	Displacer Float (Buoyancy) Level Sensor ()	ETEC/	//	Development withheld.
C 6-1T	Nak-Transmission High-Temperature Pressure Transmitter for Liquid Metal Service (3-71)	 ETEC/ G. J. Twa	 NEP/ RRT-EC/ F. A. Ross	Published.

NE (RDT)		SW/	1 DOE	
STANDARD NUMBER	TITLE	COGNIZANT ENGINEER	BRANCH/ ENGINEER	REMARKS
C 6-2T	Differential Pressure Transmitter, Pneumatic or Electric Output Signal (4-74)	! ORNL/ J. H. Holladay	NZP/ RRT-EC/	Published.
С 6-3Т	Liquid Metal Pressure Measurement System, Flush-Mounted, Eddy Current Type, Inductive, Absolute or Gage (10-70)	ETEC/ G. J. Twa	NEP/ CRBRPO-OR/ W. L. Kelly	Published.
C 6-4	Null Balance Fressure Transducer System ()	ANL/ G. A. Forster	NEP/ RRT-EC/ F. A. Ross	1
c 6-5	High Temperature, Nickel-Molybdenum-Chromium Alloy Pressure Transmitter ()	ORNL/	//	To be incorporated in C 6-1.
C 6-6	Puel Pin Plenum Pressure Measurement System for Liquid Metal Service ()	ANL/ J. J. English	NEP/ RRT-EC/ F. A. Ross	Not in work.
C 6-7	Strain Gage Pressure Transducer for Liquid Metal Service ()	ANL/ J. J. English	NEP/ RRT-EC/ F. A. Ross	Not in work.
C 7-1T	Thermocouple Material, Iron and Constantan, Solid Conductor (Bare, Fiberglass Insulated, and Sheathed Over Fiberglass Insulation) (11-76)	ORNL/ J. H. Holladay	//	Discontinued. Equivalent ASTM standard is available.
C 7-2T	Thermocouple Material, Iron-Constantan, Mineral-Oxide Insulated, Sheathed (4-70)	ORNL/ J. H. Holladay	//	Discontinued. Equivalent ASTM standard is available.
C 7-3T	Thermocouple Material, Copper and Constantan, Solid Conductor (Bare, Fiberglass Insulated, and Sheathed Over Fiberglass Insulation) (9-76)	ORNL/ J. H. Holladay	NEP/ RRT-EC/ F. A. Ross	Published.
C 7-4T	Thermocouple Material, Copper-Constantan, Mineral-Oxide Insulated, Sheathed (4-70)	ORNL/ J. H. Holladay	NEP/ RRT-EC/ F. A. Ross	Published. Supersedes NE(RDT) C 7-14T, 3-70, in part.
C 7-5T	Thermocouple Material, Chromel-P and Alumel, Solid Conductor (Bare, Fiberglass Insulated, and Sheathed Over Fiberglass Insulation) (1-73)	ORNL/ J. H. Holladay	NEP/ RRT-EC/ F. A. Ross	Published.
С 7-6т	Thermocouple Material and Thermocouple Assembly, Chromel-P versus Alumel, Stainless Steel Sheathed, Magnesium Oxide Insulated (2-75)	ORNL/ J. H. Holladay	NEP/ RRT-EC/	Published.

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
C 7-7T	Thermocouple Materials, Platinum and Platinum 10 Percent Rhodium Wires, Noninsulated, Standard Grade (8-72)	I ORNL/ I J. H. I Holladay	NEP/ RRT-EC/ F. A. Ross	Published.
C 7-14T	Metal Sheath, Ceramic-Insulated, Thermocouple, Cable and Heater Bulk Material (3-70)	ORNL/	//	Superseded by C 7-2T, 4/70; C 7-4T, 4/70; C 7-6T, 4/72; C 17-5T, 2/73; and P 4-3T, 4/72.
C 7-15T	Thermocouple Connectors and Thermocouple Connector Panels (1-72)	ORNL/ J. H. Holladay	NEP/ RRT-EC/ F. A. Ross	Published.
С 7-16т	Thermocouple Assemblies, Magnesium Oxide Insulated, Stainless Steel Sheathed (11-76)	ORNL/ J. H. Holladay	NEP/ RRT-EC/ F. A. Ross	Published.
С 7-17т	Platinum Resistance Thermometer (4-75)	HEDL/ L. E. Fort	NEP/ PFTFPO-RL/ J. R. Patterson	Published.
С 7-18т	Thermowell Systems for Liquid Metal Service (8-72)	l ARD/ R. G. Newton	NEP/ CRBRPO-OR/ W. L. Kelly	Published.
C 8-2T	Liquid Sodium Bearing Film Thickness, Variable Reluctance Transducer, Proximity Measurement System (1-76)	ETEC/ DeVita	NEP/ RRT-EC/ F. A. Ross	Published.
C 8-4T	Electrical Continuity-Type Liquid Metal Leak Detector (10-72)	ETEC/ K. A. Davis	NEP/ RRT-EC/ F. A. Ross	Published.
с 8-5т	Electrochemical Oxygen Meter for Service in Liquid Sodium (1-72)	HEDL/ J. J. McCown 	NEP/ PPTFPO-RL/ A. R. DeGrazia	Published.
С 8-6Т	Hydrogen Meter for Service in Liquid Sodium (5-77)	! HEDL/ J. J. McCown	NEP/ CRBRPO-OR/ W. L. Kelly	Published.
C 8-7T	Diffusion Carbon Meter for Service in Liquid Sodium (1-72)	HEDL/	//	Discontinued.

NE (RDT)		I SW/	I DOE	
STANDARD NUMBER	TITLE	COGNIZANT ENGINEER	BRANCH/ BRINEER	REMARKS
C 8-8T	Specimen Equilibration Device (or Multipurpose Sampler) for the Analysis of Nonmetals in Liquid Sodium (7-77)	 J. J. McCown HEDL/	 NEP/ FFTFPO-RL/ A. R. DeGrazia	Published.
C 8-10	Chemical Analyzer Type Sodium Leak Detector ()	ETEC/ K. A. Davis	NEP/ CRBRPO-OR/ W. L. Kelly	Not in work.
C 8-11	Ultrasonic System for Under-Sodium Viewing () 	HEDL/ E. M. Sheen	NEP/ RRT-EC/	Not in work.
C 9-1T	Single-Point Strip-Chart Recording Potentiometer	! !	/ /	Discontinued.
С 9-2Т	Multipoint Strip-Chart Recording Potentiometer (9-70)	1	//	Discontinued.
C 10-1T	Thermocouple Signal Transmitter (1-79)	ORNL/ J. H. Holladay, W.	NEP/ RRT-EC/ F. A. Ross	Published.
	1	L. Zabriskie)
C 10-2T	Permanent Magnet Flowmeter Signal Transmitter (11-71)	ARD/	//	 Discontinued.
C 10-3T	Multiple Input Preamplifier/Discriminator for Use with Neutron Counters (12-75)	HEDL/ J. L. Stringer	NEP/ FFTFPO-RL/ J. R. Patterson	Published
C 10-4T	Signal Summer (10-71)	ARD/	//	Discontinued.
C 10-5T	Eddy-Current Flowmeter Power Supply and Signal Conditioning Electronics (2-73)	HEDL/	//	Discontinued.
C 11-2T	Pyrometer, High Sensitivity, Indicating and Controlling (1-72)	1	//	Discontinued.
C 12-1T	Gas Chromatograph System for Sodium Cover Gas Service (11-73)	HEDL/		Discontinued.
c 13-1	Digital Data Acquisition and Control Computer System ()	ORNL/ To be determined	NEP/ CRBRPO-OR/ R. J. Rosecky	Not in work.

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
C 14-1T	Ventilation Exhaust Radiation Monitoring System (4-74)	HEDL/	/ /	Discontinued.
C 14-2T	Area Radiation Monitoring System (4-74)	HEDL/	//	Discontinued.
C 14-3T	Gamma-Ray Spectrometer-Computer System (7-72)	ANL/	//	Discontinued.
С 15-2Т	Wide-Range (10 Decade) Neutron Flux Monitoring Channel (2-71)	ANL/ G. E. Yingling	NEP/ CRBRPO-OR/ W. L. Kelly	Published.
С 15-3Т	Current Pulse Preamplifiers for Use with Fission Counters (8-71)	ORNL/ J. H. Holladay, J. T. DeLorenzo	NEP/ CRBRPO-OR/ W. L. Kelly	Published.
C 15-4T	Self-Powered Cobalt-Emitter Neutron Detector (2-72)	ORNL/	//	Discontinued.
 C 15-5T 	Fission Type Neutron Detector Assembly (12-71)	ARD/ To be determined	NEP/ FFTFPO-RL/ J. R. Patterson	Published.
 C 15-6T 	Logarithmic Mean Square Voltage (MSV) Intermediate Range Neutron Flux Monitoring System (7-74) 	ANL/ G. E. Yingling	NEP/ RRT-EC/ P. A. Ross	Published.
 C 15-7T 	Gamma Compensated Ionization Chamber Assembly (Fixed Electrical Compensation) (7-71)	! ANL/ G. E. Yingling	NEP/ RRT-EC/ F. A. Ross	Published.
 C 15-8T 	Direct Current Power Range Neutron Flux Monitoring System (7-71)	! ANL/ ! G. E. ! Yingling	NEP/ RRT-EC/	Published.
 C 15-9T 	 Mean Square Voltage (MSV) Power Range Neutron Flux Monitoring System (7-71)	ANL/	//	Discontinued.
 C 15-10T 	Logarithmic Count Rate Source Range Neutron Flux Monitoring System (7-71) 	ANL/ G. E. Yingling	NEP/ RRT-EC/	Published.
 C 15-11T 	BF3 Gamma Tolerant Neutron Detector Tubes (12-75)	HEDL/ B. J. Kaiser	NEP/ PFTFPO-RL/ J. R. Patterson	Published.

			DOE	
NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	BRANCH/ ENGINEER	REMARKS
c 15-12	Self-Powered Flux Detectors for Fast Reactors ()	ANL/ R. J. Forrester	NEP/ RRT-EC/ F. A. Ross	Not in work.
С 16-1т	Supplementary Criteria and Requirements for RDT Reactor Plant Protection Systems (12-69)	ORNL/ J. H. Holladay, L. C. Oakes	 NEP/ CRBRPO-OR/ R. J. Rosecky	Published.
C 16-2T	Protection System Logic (4-72)	ARD/ To be determined	NEP/ CEBRPO-OR/ R. J. Rosecky	Published.
с 16-3т 	PPS Buffers (10-71)	 ARD/ To be determined	NEP/ CRBRPO-OR/ R. J. Rosecky	Published.
C 16-4T	Protection System Comparator (4-72)	ARD/ To be determined	NEP/ CRBRPO-OR/ R. J. Rosecky	Published.
C 17-1T	 High-Temperature Electrical Connectors and Hermetic Seals (3-70)	 HEDL/ C. P. Cannon	NEP/ RRT-EC/	Published.
C 17-4T	General Instrumentation (2-72)	 ARD/ To be determined	NEP/ CRBRPO-OR/ W. L. Kelly	Published.
C 17-5T	Metal-Sheathed, Mineral-Insulated Cable Bulk Material (2-73)	ETEC/ W. E. Burns	NEP/ RRT-EC/	Published. Supersedes NE(RDT) C 7-14T, 3-70, in part.
C 17-6	Cable, Metal Sheath, Mineral-Insulated, for Pulse Type Fission Neutron Detectors ()	HEDL/ C. P. Cannon	NEP/ RRT-EC/	Not in work.
C 17-8T	Annunciators for Control Systems (10-72)	 ANL/ W. S. Barak	NEP/ RRT-EC/ F. A. Ross	Published.
C 17-9T	Foil-Shielded Instrumentation Cable (6-74)	ANL/ S. L. Halverson	NEP/ BRT-EC/ F. A. Poss	Published.

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
C 17-11	Coaxial, Dual Coaxial, and Triaxial Cables ()	ANL/ G. E. Yingling	NEP/ RRT-EC/ F. A. Ross	Not in work.
C 17-12	End Seals and Attachment Methods for High-Temperature Nuclear Instrumentation Cable ()	HEDL/ C. P. Cannon	NEP/ RRT-EC/ F. A. Ross	Not in work.
C 18-1T	Ceramic Electrical Insulators (8-74)	ETEC/ W. E. Burns	NEP/ RRT-EC/ F. A. Ross	Published.
C 19-1T	Cardiac Pacemaker Electronic Circuits, for Use with Radio-Isotope Power Supply (10-71)	 	/ /	Discontinued.

NP (DDM)		SW/	DOE	
NE(RDT) STANDARD		COGNIZANT	BRANCH/	
NUMBER	TITLE	ENGINEER	ENGINEER	REMARKS
{			l	
E 1-6T		ORNL/	 Nep/ Oso-Os/	 Published
I I I	Nucomatic Spring-Loaded Salety Valves (5-72)	W. A. Bush	N. P. Klug	I
i			ĺ	i
E 1-9T	Stainless Steel Gate Valves, Manual and Power Operated		NEP/ OSQ-OS/	Published.
	(3-72)	W. A. Bush	N. P. Klug	
E 1-11T	Rupture Disk Devices for Liquid Metal Systems (7-73)	HEDL/	//	Discontinued.
! !			! :	
E 1-12T	Stainless Steel Check Valves (3-72)	ORNL/ W. A. Bush	NEP/ OSQ-OS/	Published.
		we we name	i n. r. kiug	
B 1-13T	Valve, Isolation, Butterfly Type (8-72)	ORNL/	NEP/ OSQ-OS/	Published.
		W. A. Bush	N. P. Klug	
!	Class 1 Valves for Liquid Metal Service (5-75)	HEDL/	NEP/	Published.
i	•	G. D.	CRBRPO-OR/	
!		Bazinet	M. Sherman	
1 1 E 1-19T	Class 2 Valves for Liquid Metal Service (6-74)	ET EC/	I I NEP/	l Published.
	baddo a razron zoa azguza abada bozrabo (o riy	W. G. DeWart		
1		İ	M. Sherman	
 E 1-21T	Stainless Steel Globe and Angle Valves, Manual and	I ORNL/	 Nep/ Osq-Os/	 Published.
1 - 2 1	Power Operated (3-72)	W. A. Bush	N. P. Klug	l
i i		İ	1	i
E 1-23	Stainless Steel Throttling Valves, Manual and Power	! /	! / /	! Development withheld.
	Operated ()	1 ?	! !	1 1
E 1-25T	Instrument Valves (4-72)	ORNL/	NEP/ OSQ-OS/	Published.
1		W. A. Bush	N. P. Klug	!
! E 1-31T	Carbon Steel Isolation Valves (4-73)	I ORNL/	NEP/ OSQ-OS/	l ! Published.
1	04200 05002 20020000 142100 (170)	W. A. Bush	N. P. Klug	
1 - 4 35-	1 7 7 4 6 705	!	!	!
) E 1-35T	Inert Gas Valves (5-72)	HEDL/ C. G.	NEP/ CRBRPO-OR/	Discontinued. No longer in use: little or no potential
1	•	McCargar	Hornstra	for future use.
ļ		i	!	!
E 1-36T	Floor Valve, Reactor Refueling and Maintenance for	HEDL/	! / /	Discontinued.
i	Laren / 0 121	1	1	\ 1
E 1-37T	Balanced Safety Relief Valves for Liquid Metal	i /	i / /	Discontinued.
1	Facility Gas Systems (2-73)	ļ	1	1
E 1-38	 Automatic Spring-Loaded Water Relief Valves ()		1 / /	l Development withheld.
	1		1	

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
E 2-1	()	/	//	Not available for reassignment.
E 2-3T	Reactor Vessel for Liquid Metal Service (12-73)	ARD/	//	Discontinued. Single application standard.
E 2-4T	Shield Plug and Closure Cap for Penetrations - LMFBR Reactor Vessel Head (4-73)	ARD/	//	Discontinued. Single application standard.
j E 3-1T	Vertical, Canned or Wet Motor-Driven Single-Stage Centrifugal Pump (6-72)	ORNL/ W. A. Bush	NEP/ OSQ-OS/ N. P. Klug	Published.
E 3-2T	Centrifugal, Free-Surface, Sodium Pump with Electrical Drive (5-71)	GE-ARSD/ L. E. Manners	NEP/ CRBRPO-OR/ Christainson	Published.
E 3-3T	Vertical, Shaft-Sealed, Motor-Driven, Single-Stage Centrifugal Pump (7-72)	ORNL/ W. A. Bush	NEP/ OSQ-OS/ N. P. Klug	Published.
E 3-6T	Horizontal, Electric Motor-Driven, Single-Stage Centrifugal Pump (2-72)	ORNL/ W. A. Bush	NEP/ OSQ-OS/ N. P. Klug	Published.
E 3-7T	Reciprocating Positive Displacement Pump (3-72)	ORNL/ W. A. Bush	NEP/ OSQ-OS/ N. P. Klug	Published.
E 3-8	Horizontal, Electric Motor-Driven Multi-Stage Centrifugal Pump ()	/	/ /	Development withheld.
E 3-9T	Electromagnetic Pump for Liquid Metal Service (3-71)	HEDL/ G. A. Jucobson	NEP/ RRT-EC/ J. W. Newton	•
E 3-12T	Radioactive Gas Compressors (8-73)	HEDL/	//	Discontinued.
E 4-1T	Steam Generator for Pressurized Water Reactors (12-71)	ORNL/	NEP/ OSQ-OS/ N. P. Klug	Published.
E 4-2T	Heat Exchanger, Class 1, Water-to-Water, Straight or U-Tube (6-73)	ORNL/ W. A. Bush	NEP/ OSQ-OS/ N. P. Klug	Published.
E 4-3	()	/	/ /	Not available for reassignment.
E 4-5T	Forced-Circulation Cold Trap Assembly for Removal of Sodium Impurities (1-76)	ETEC/ R. L. Eichelberger	NEP/ FFTFPO-RL/ O. L. Olson	Published.

	I CW /	I DOP	
TITLE	COGNIZANT ENGINEER	BRANCH/ ENGINEER	
Intermediate Heat Exchanger for Liquid Metal Systems (5-74)	 HEDL/ C. E. Grenard	 NEP/ CR3RPO-OR/ E. A. Wright	Published.
Sodium to Air Heat Exchanger (6-71)	HEDL/ N. R. McFadden	NEP/ FFTFPO-RL/ O. L. Olson	Published.
()	/	//	Not available for reassignment. (Being held for cooling tower standard.)
Freeze Vent for Sodium Service (2-71)	HEDL/ T. J. Conrads	NEP/ FFTFPO-RL/ O. L. Olson	Published.
Vapor Trap Assemblies for Sodium Service (4-72)	HEDL/ T. J. Conrads	NEP/ FFTPPO-RL/ O. L. Olson	Published.
Sodium-Heated Steam Generator (2-74)	GE-ARSD/ H. H. Ellis	NEP/ CRBRPO-OR/ E. A. Wright	Published.
Heat Exchanger, Class 2, Water-to-Water, Straight or U-Tube (7-71)	ORNL/ W. A. Bush	NEP/ OSQ-OS/ N. P. Klug	Published.
Air-Cooled Heat Exchanger for Nuclear Steam-Supplied Systems (3-71)	ORNL/ W. A. Bush	NEP/ OSQ-OS/ N. P. Klug	Published.
Plugging Temperature Indicator Assembly for Sodium Service (4-75)	ETEC/ Goodman	NEP/ FFTFPO-RL/ A. R. DeGrazia	Published.
Heat Exchanger for Gas Cooler (5-72)	HEDL/	//	Discontinued.
Heat Exchanger, Cryogenic Service ()	HEDL/	//	Development withheld.
Pressurizer fcr Pressurized Water Reactors (6-72)	ORNL/	NEP/ OSQ-OS/ N. P. Klug	Discontinued; requirements covered in ASME Code (ET-765, 9-7-79).
Electric Heater and Connector Assembly for Pressurizer for Pressurized Water Reactors (5-72)	-	NEP/ OSQ-OS/ N. P. Klug	Published.
	Intermediate Heat Exchanger for Liquid Metal Systems (5-74) Sodium to Air Heat Exchanger (6-71) () Freeze Vent for Sodium Service (2-71) Vapor Trap Assemblies for Sodium Service (4-72) Sodium-Heated Steam Generator (2-74) Heat Exchanger, Class 2, Water-to-Water, Straight or U-Tube (7-71) Air-Cooled Heat Exchanger for Nuclear Steam-Supplied Systems (3-71) Plugging Temperature Indicator Assembly for Sodium Service (4-75) Heat Exchanger, Cryogenic Service () Pressurizer for Pressurized Water Reactors (6-72) Electric Heater and Connector Assembly for Pressurizer	Intermediate Heat Exchanger for Liquid Hetal Systems (5-74) Intermediate Heat Exchanger for Liquid Hetal Systems (C. E. Grenard Sodium to Air Heat Exchanger (6-71) Freeze Vent for Sodium Service (2-71) Freeze Vent for Sodium Service (2-71) Freeze Vent for Sodium Service (4-72) Freeze Vent for Sodium Service (5-72) Freeze Vent for Sodium Service (6-72) Freeze Vent for Liquid Hetal Systems Freeze Vent for Liquid Heta	Intermediate Heat Exchanger for Liquid Hetal Systems (5-74) Intermediate Heat Exchanger for Liquid Hetal Systems (5-74) Intermediate Heat Exchanger for Liquid Hetal Systems (5-74) Intermediate Heat Exchanger for Liquid Hetal Systems (5-74) Intermediate Heat Exchanger for Liquid Hetal Systems (CRBRPO-OR/CRBRPO-OR/CRBRPO-OR/CRBRPO-OR/CRBRPO-OR/E.A. Wright Sodium to Air Heat Exchanger (6-71) Intermediate Heat Exchanger for Sodium Service (2-71) Intermediate Heat Exchanger for Sodium Service (4-72) Intermediate Heat Exchanger for Liquid Hetal Systems Service (4-72) Intermediate Heat Exchanger for Liquid Hetal Systems Service (4-72) Intermediate Heat Exchanger for Liquid Hetal Systems Service (4-72) Intermediate Heat Exchanger for Liquid Hetal Systems Service (4-72) Intermediate Heat Exchanger for Liquid Hetal Systems Service (4-72) Intermediate Heat Exchanger for Liquid Hetal Systems Service (4-72) Intermediate Heat Exchanger for Liquid Hetal Systems Service (4-72) Intermedia

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ BNGINEER	REMARKS
E 6-1T	Near-Isotropic Petroleum-Coke Based Graphites for High Temperature Gas-Cooled Reactor Core Components (10-77)		NEP/ ANSP-GCR/ J. Fox	Published.
E 6-5T	 Collapsible-Rotor, Roller-Nut Control Rod Drive Mechanism for Sodium Service (3-71) 	ARD/ To be determined	NEP/ CRBRPO-OR/ P. Gross	Published.
E 6-9T	Core Support Structure for Pressurized Water Reactors (Fabrication Only) (4-72)	/	//	Discontinued.
E 6-10T	Temperature and Liquid Level Control Monitor, Port Plug (Fabrication Only) (10-73)	ARD/	//	Discontinued.
E 6-11T		ARD/	//	Discontinued.
E 6-13T	Core Support Structure for Sodium Cooled Reactors (Fabrication Only) (1-72)	ARD/	//	Discontinued.
E 6-17T	Core Restraint Mechanism for Sodium Cooled Reactors (Fabrication Only) (10-72)	l ARD/	//	Discontinued.
E 6-18T	Instrument Tree for Sodium Cooled Reactors (Fabrication Only) (2-73)	ARD/	//	Discontinued.
E 6-19T	Radial Reflector Assembly for Liquid Metal Fast Breeder Reactors (3-78)	HEDL/ D. L. Armstrong	NEP/ PFTFPO-RL/ D. P. Simonson	Published.
E 6-20T	Austenitic Stainless Steel Hexagonal Duct Tubes for Core Components and Assemblies (5-76) 	HEDL/ E. M. Epperson	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
E 6-23T	Core Radial Shield for Sodium Cooled Reactors (12-71)	ARD/	//	Discontinued.
E 6-24T	Interim Decay Storage for Sodium-Cooled Reactors (4-73)	HEDL/	//	Discontinued.
E 6-25T	Control Rod Absorber Pin for Liquid Metal Fast Reactors (9-76)	HEDL/ D. L. Armstrong	NEP/ RRT-FD/ A. Van Echo	Published.
E 6-26T	Fabrication of Control Rod Driveline for Sodium Cooled Reactors (4-73)	ARD/	NEP/ FFTFPO-RL/ V. C. Wahler	Discontinued.
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NUMBER	TITLE	ENGINEER	ENGINEER	REMARKS
E 6-30T	Absorber Pin Boron Carbide Pellet (9-76)	HEDL/ D. L. Armstrong	NEP/ RRT-FD/ A. Van Echo	Published.
E 6-33T	Control Rod Assembly for Liquid Metal Fast Breeder Reactors (3-77)	HEDL/ D. L. Armstrong	NEP/ RRT-FD/ A. Van Echo	Published.
E 6-34T	 Fabrication of Core Component Pot for Liquid Metal Service (3-72)	ARD/	! ! / /	Discontinued.
Е 6-36Т	Low Level Flux Monitor Mechanical System for Liquid Metal Service (Fabrication Only) (7-72)	ARD/	!	Discontinued.
E 6-38T	Low Priction Hard Surfaces for Core Components (5-73)	HEDL/ R. C. Aungst	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
E 6-40T	Piston Rings of High Strength Alloys for Core Components for Liquid Metal Service (5-74)	HEDL/ R. C. Aungst	NEP/ FFTPPO-RL/ V. C. Wahler	Published.
E 6-41	End Components for Breeder Reactor Core Assemblies ()	HEDL/ D. R. Precechtel	NEP/ FFTFPO-RL/ V. C. Wahler	Draft in work.
E 7-4T	Mixing Component for Liquid Metal Piping Systems (11-71) 	HEDL/ A. A. BOTTO	NEP/ FFTFPO-RL/ O. L. Olson	Published.
E 7-6T	Pipe Hangers, Supports and Snubbers for Liquid Metal Service (5-72)	ORNL/ S. I. Anderson	! ! / / !	Discontinued. (See NE(RDT) E 7-9.)
E 7-8T	Penetrations for Piping (4-72)	HEDL/	//	Discontinued.
E 7-9	Snubbers for Nuclear Applications () 	RSO/ ORNL/ J. A. Plaherty, Teledyne Engineering	 	New entry. Effort is being initiated to develop new standard.
E 8-5T	Ex-Vessel Handling Machine for Sodium Cooled Reactors (12-71)	HEDL/	! / /	Discontinued.
E 8-6T	Transporter, Fuel Handling (3-72)	HEDL/	1./	Discontinued.

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINBER	REMARKS
E 8-11T	FFTF Closed Loop In-Reactor Assembly Fabrication (12-71)	HEDL/	//	Discontinued.
E 8-12T	Visual In-Service Inspection System and Associated Equipment for the Reactor Enclosure System (7-73)	ARD/	//	Discontinued.
E 8-13T	Oxygen-Hydrogen Meter Module for Service in Liquid Sodium (1-72)	HEDL/ J. J. McCown	NEP/ PFTFPO-RL/ A. R. DeGrazia	Published.
E 8-14T	Carbon Meter-Equilibration Module for Service in Liquid Sodium (1-72)	HEDL/	//	Discontinued.
E 8-15T	Fabrication of Plug Handling Fixture for Sodium Cooled Reactors (2-74)	HEDL/	//	Discontinued.
E 8-18T	Threaded Fasteners for Nuclear Components (7-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
 E 8-19T 	 Open Test Assembly Fabrication (10-73) 	HEDL/ A. J. Milewski	//	Discontinued. No longer in use; little or no potential for future use.
E 9-1T	HEPA Filters (AACC CS-1 with Additional Requirements) ((8-74)	ORNL/ C. A. Burchsted	NEP/ RRT-EC/ J. W. Newton	Published.
 E 9-3T 	High-Efficiency Pleated-Bed Gas-Phase Adsorber Cells (6-72)	ORNL/		Discontinued.
E 9-4	Single-Filter Housing for HEPA Filter ()	ORNL/	//	Development withheld.
E 9-5	Adsorption Bed, Inert Gas Processing ()	HEDL/	//	Development withheld.
1 E 9-7T 	Fans, Blowers, and Compressors for Dry Gas Circulation (4-73)	HEDL/	//	Discontinued.
E 10-2T	 Guard Vessel for Primary Sodium Containing Components (11-70)	ARD/	! / /	Discontinued. Single application standard.
 E 10-3T 	Tank ~ Liquid Metal Service (9-71) 	HEDL/ A. A. Borro	NEP/ CRBRPO-OR/ M. Sherman	Published.

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NUMBER !	TITLE	ENGINEER	ENGINEER	REMARKS
E 10-4T	Accumulators, Pressure Vessel, Class 2 (3-73)	ORNL/ To be determined	NEP/ OSQ-OS/ N. P. Klug	Published.
E 10-5T	Expansion Joint - Containment Vessel Airlock (3-72)	HEDL/ W. A. Reed	NEP/ CRBRPO-OR/ P. R. Washer	Discontinued. No longer in use; little or no potential for future use.
E 10-6T	Tank for Gas Service (11-72)	 HEDL/ T. J. Conrads	NEP/ CRBRPO-OR/ Hornstra	Discontinued. No longer in use; little or no potential for future use.
E 10-7T	Blowdown Suppression Tank (5-72) 	ORNL/ To be determined	NEP/ OSQ-OS/ N. P. Klug	Published.
E 10-8T	Steel Containment Vessel (12-73)	ORNL/	//	Discontinued.
E 11-1T	Ion Exchanger, Non-Regenerative Type (5-72)	ORNL/ To be determined	NEP/ OSQ-OS/ N. P. Klug	Published.
E 11-2T	Filter for Sodium Service (1-73)	HEDL/		Discontinued.
E 12-1	P-144-1 Container for Transport of Unirradiated Fuel Pins and Assemblies ()	SRO/ G. W. May	NEP/ OSQ-QAS/ B. C. Wei	Development withheld.
 E 12-4T 	 Shielded Shipping Cask for Spent Reactor Fuel Elements (8-73)	ORNL/ R. C. Hudson	NEP/ OSQ-QAS/ B. C. Wei	 Published.
 E 12-5T 	 Operating Manuals for Fuel Shipping Containers (1-75) 	 SRO/ G. W. May	 NEP/ OSQ-QAS/ B. C. Wei	Published.
 E 12-6T 	Ancillary Features of Irradiated Fuel Shipping Casks (1-79)	 SRO/ G. W. May	NEP/ OSQ-QAS/ B. C. Wei	Published.
 E 12-7T 	Inspection and Preventive Maintenance of Fuel Shipping Containers (1-75)	 SRO/ G. W. May 	NEP/ OSQ-QAS/ B. C. Wei	Published.
 E 13-1T 	 Fast Flux Test Facility Ceramic Grade Plutonium Dioxide (6-71) 	 HEDL/ C. A. Strand 	 NEP/ FFTFPO-RL/ V. C. Wahler	Published.

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NE (RDT) STANDARD NUMBER	(TITLE 	SW/ COGNIZANT BNGINEER	DOE BRANCH/ ENGINEER	REMARKS
E 13-2T	Ceramic Grade Uranium Dioxide (6-71)	HEDL/ C. A. Strand	NEP/ FFTFPO-RL/ V. C. Wahler	 Published.
E 13-3T	Fast Flux Test Facility Uranyl Nitrate Solution (6-71)	HEDL/ C. A. Strand	NEP/ PFTFPO-RL/ V. C. Wahler	Published.
E 13-4T	Fast Flux Test Facility Plutonium Nitrate Solution (6-71)	HEDL/	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
E 13-5T	Fast Flux Test Facility Driver Fuel Pin (6-71)	HEDL/	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
Е 13-6Т	Fast Flux Test Facility Driver Fuel Pin Mixed Oxide Fuel Pellet (6-71)	HEDL/ C. A. Strand	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
E 13-7T	Fast Flux Test Facility Driver Fuel Pin Insulator Pellet (6-71)	HEDL/ C. A. Strand	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
E 13-8T	Past Plux Test Facility Driver Fuel Pin Seamless Cladding Tube (6-71)	HEDL/ C. A. Strand	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
E 13-9T	Fast Flux Test Facility Driver Fuel Pin End Caps (6-71)	HEDL/ C. A. Strand	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
E 13-10T	Fast Flux Test Facility Driver Fuel Pin Reflectors (6-71) 	HEDL/ C. A. Strand	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
E 13-11T	Fast Flux Test Facility Driver Fuel Pin Plenum Spacer (6-71) 	HEDL/ C. A. Strand	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
Е 13-12Т	Fast Flux Test Facility Driver Fuel Pin Plenum Spring (6-71) 	HEDL/ C. A. Strand	NEP/ FPTFPO-RL/ V. C. Wahler	Published.
E 13-13T	Fast Flux Test Facility Driver Fuel Pin Wrap Wire (6-71) 	HEDL/ C. A. Strand	NEP/ FFTFPO-RL/ V. C. Wahler	Published.

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STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	BRANCH/ BROINEER	REMARKS
E 13-15T	Fuel Assemblies for Pressurized Water Reactors (7-71)	ORNL/ To be determined	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
E 13-16T	Driver Fuel Assembly (9-77)		NEP/ RRT-PD/ D. E. Bailey	
E 14-1	Static Seals ()	ORNL/	NEP/ OSQ-OS/ N. P. Klug	Development withheld.
E 14-5T	Inflatable Seal - Containment Vessel Airlock (6-72)	HEDL/ W. A. Reed	NEP/ CRBRPO-OR/ P. R. Washer	Discontinued. Little or no potential for future use.
E 14-6T	Gaskets - Containment Vessel Airlock (6-72)	HEDL/ W. A. Reed	NEP/ CRBRPO-OR/ P. R. Washer	Discontinued. Little or no potential for future use.
E 14-7	Elastomer Seals for Pressure-Retaining Boundaries of LMFBR Containment Systems ()	HEDL/	//	Development withheld.
E 15-1	Containment Spray System ()	ORNL/	//	Development withheld.
E 15-2T	Requirements for Nuclear Components (Supplement to ASME Boiler and Pressure Vessel Code, Section III) (5-74)	ORNL/		(Superseded by E 15-2NB-T, 11-74; E 15-2NC-T, 12-74; E 15-2NC-T, 3-75; and E 15-2NE-T, 8-75.)
E 15-3T	Insulation/Heater Module-Piping (4-72)	HEDL/	//	Discontinued.
E 15-2NB-T	Class 1 Nuclear Components (Supplement to ASME Boiler and Pressure Vessel Code, Section III, Subsections NCA and NB) (3-78)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
E 15-2NC-T	Class 2 Nuclear Components (Supplement to ASME Boiler and Pressure Vessel Code, Section III, Subsections NCA and NC) (6-78)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
E 15-2ND-T	Class 3 Nuclear Components (Supplement to ASME Boiler and Pressure Vessel Code, Section III, Subsections NCA and ND) (6-78)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
E 15-2NE-T	Class MC Nuclear Components (Supplement to ASME Boiler and Pressure Vessel Code, Section III, Subsections NA and NE) (8-75)		NEP/ OLWR-MS/ J. R. Hunter	Published. Supersedes E 15-2T, 5-74, Subsections NA and NE.

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
B 15-2NF	Nuclear Component Supports (Supplement to ASME Boiler and Pressure Vessel Code, Section III, Subsections NA and NF) ()	ORNL/	1.1	Development withheld.
E 15-2NG	Nuclear Core Support Structures (Supplement to ASME Boiler and Pressure Vessel Code, Section III, Subsections NA and NG) ()	ORNL/	//	Development withheld.
E 16-1T	Test Vehicles for Transient Reactor Test Facility (TREAT) Experiments Containing Sodium (8-74)	ANL/ H. U. Ahmed	NEP/RRT/	Published.
E 17-1	Primary Fluidized Bed Burner for HTGR Fuel Reprocessing ()	GA/ R- D- Zimmerman	NEP/ OLWR-NFC/ H. E. Stelling	Withdrawn 3-79.
E 17-2	Secondary Pluidized Bed Burner for HTGR Fuel Reprocessing () 	GA/ Zimmerman	NEP/ OLWR-NFC/ H. E. Stelling	Withdrawn 3-79.

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STANDARD NUMBER	TITLE 	COGNIZANT ENGINEER	BRANCH/ ENGINEER	REMARKS
F 1-1	Preparation and Application of RDT Standards (12-76)	ORNL/ S. I. Anderson, D. H. Morris	NEP/ OSQ-QAS/ M. E. Langston	Published.
F 1-2T	Preparation of System Design Descriptions (12-75)	RRT/	NEP/ RRT-EC/ F. A. Ross	Published
F 1-3T	Preparation of Unusual Occurrence Reports (9-77)	ORNL/ C. A. Burchsted	NEP/ OSQ-QAS/ R. H. Kuhnapfel	Published.
F 1-4T	Preparation and Maintenance of Limited Consensus Standards ()	ORNL/ S. I. Anderson, D. H. Morris	NEP/ OSQ-QAS/ H. E. Langston	Draft in work.
F 2-1	Quality Assurance Program Management ()	ORNL/	//	Development withheld.
F 2-2	Quality Assurance Program Requirements (8-73)	HEDL/ T. E. Dunn	NEP/ OSQ-QAS/ E. E. Langston	Published.
F 2-3	Testing Program Requirements ()	ORNL/	//	Development withheld.
F 2-4T	Quality Verification Program Requirements (12-74)	HEDL/ T. E. Dunn	NEP/ OSQ-QAS/ M. E. Langston	Published.
F 2-5	()		//	Not available for reassignment.
F 2-6T	Qualification and Control of Analytical Chemistry Laboratories for Mixed Oxide Fuel Analysis (3-79)	HEDL/ W. E. McClung	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
F 2-7T	Acceptance Sampling Plans (11-73)	HEDL/ W. E. McClung	NEP/ FFTFPO-RL/ V. C. Wahler	Published. -
F 2-8T	Qualification and Control of Analytical Chemistry Laboratories for Control Rod Absorber Material Analysis (12-78)	HEDL/ W. E. McClung	NEP/ FFTFPO-RL/ V. C. Wahler	Published.

F - PROGRAMS, PROCEDURES, METHODS

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STANDARD NUMBER	TITLE	COGNIZANT ENGINEER	BRANCH/ ENGINEER	I REMARKS
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F 2-9T	Reliability Assurance (6-74)	ARD/ F. A. Lijewski	NEP/ OSQ-QAS/ R. H. Kuhnapfel	Published.
F 2-10	Quality Assurance Program Requirements (Supplement to ANSI/ASME NQA-1) ()	HEDL/ T. E. Dunn	NEP/ OSQ-QAS/ M. E. Langston	Title was corrected 1-80.
F 3-1T	Inspection System Requirements (2-69)	HEDL/	//	Superseded by F 2-4T, 8/69.
F 3-2T	Calibration Program Requirements (2-73)	HEDL/ T. E. Dunn	NEP/ OSQ-QAS/ R. H. Kuhnapfel	Published.
F 3-3T	Ultrasonic Examination of Heavy Steel Forgings (Modified ASTM A 388) (2~69)	ORNL/	//	Superseded by F 3-6T, 7/71.
F 3-4T	Ultrasonic Shear-Wave Examination of Plates (Modified ASTM A 577) (2-69)	ORNL/	//	Superseded by F 3-6T, 7/71.
F 3-5T	Longitudinal-Wave Ultrasonic Examination of Plain and Clad Steel Plates (Modified ASTM A 578) (2-69)	ORNL/	//	Superseded by F 3-6T, 7/71.
F 3-6T	Nondestructive Examination (Supplement to ASME Boiler and Pressure Vessel Code, Section V) (3-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
F 3-7T	Inspection Requirements for Materials Used in Reactor Coolant System Wear Applications (10-67)	ORNL/	NEP/ OLWR-MS/ J. R. Hunter	Published.
F 3-8T	Ultrasonic Examination of Metal Pipe and Tubing for Longitudinal Discontinuities (Modified ASTM E 213) (2-69)	ORNL/		Superseded by F 3-6T, 7/71.
F 3-10T	Nondestructive Examination of Reactor Core Components (8-77)	HEDL/ J. C. Spanner	 NEP/ FFTFPO-RL/ V. C. Wahler	Published.
F 3-11T	Mass Spectrometer Helium Leak Detection for Instruments and Small Components (2-72)	ORNL/ J. H. Holladay	NEP/ OLWR-MS/ J. R. Hunter	Published.

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
F 3-13	Evaluation, Control, and Use of Measurement Error ()	HEDL/ W. E. McClung	 NEP/ FFTFPO-RL/ V. C. Wahler	Draft in work.
F 3-14	Acceptance Testing of Liquid Metal Systems ()	ARD/	NEP/ OLWR-MS/ J. R. Hunter 	Work on RDT standard cancelled: changes to ASME Code, Section XI, that are in progress preclude need for RDT standard.
P 3-15T	Requirements for Inspection of Dimensional Characteristics (8-73)	HEDL/ T. E. Dunn	NEP/ OSQ-QAS/ N. E. Langston	Published.
F 3-37T	Special Requirements for Metal Products (5-74)	ORNL/	1.1	Discontinued.
F 3-39T	Testing of High Temperature Cable for Nuclear Detectors (8-71)	ANL/ G. E. Yingling	NEP/ RRT-EC/ P. A. Ross	Published.
] F 3-40T	Methods for the Analysis of Sodium and Cover Gas (1-76)	HEDL/ J. J. McCown, W. L. Delvin	NEP/ PPTFPO-RL/ A. R. DeGrazia	Published.
F 3-41	In-Place Testing of HEPA Filter Systems by the Single-Particle, Particle-Size Spectrometer Method ()	RSO/ LASL/ PM/C. A. BUIChsted, ORNL WGC/J. C. Elder, LASL RCC/ B. D. Reinert,	TFS/OWT-TD/ J. C. Dempsey	The limited consensus draft is in work.
P 4-1	Maintenance Program Requirements ()	/	//	Development withheld.
F 4-2	Liquid Metal Fast Breeder Reactor Facility Maintenance Program Requirements ()	ORNL/	1 / /	Development withheld.
F 4-20T	Operation and Maintenance Manuals (10-71)	ORNL/ C. A. Burchsted	NBP/ OSQ-QAS/ R. H. Kubnapfel	Published.

F - PROGRAMS, PROCEDURES, METHODS

NE (RDT) STANDARD		SW/ COGNIZANT	DOE BRANCH/	
NUMBER	TITLE	ENGINEER	ENGINEER	REMARKS
F 5-1T	Cleaning and Cleanliness Requirements for Nuclear Components (1-78)	HEDL/ M. J. Graber	NEP/ OLWR-MS/ J. R. Hunter	Published.
₽ 5-2	Cleaning and Cleanliness Control Requirements for Pabrication of Components ()	ORNL/	//	Development withheld.
F 5-6	Cleaning and Cleanliness Control Requirements for Construction ()	ORNL/	//	Development withheld.
F 5-9T	Sodium Removal Processes (4-77)	HEDL/ C. W. Funk	NEP/ FFTFPO-RL/ A. R. DeGrazia	Published.
F 6-1T	Welding (2-69)	ORNL/	//	Superseded by E 15-2T, 7/71 and F 6-5T, 7/71.
F 6-2T	Welding of Reactor Core Components and Test Assemblies (7-73)	HEDL/ W. F. Brown	NEP/ PFTFPO-RL/ Graham	Published.
F 6-5T	Welding and Brazing Qualifications (Supplement to ASME Boiler and Pressure Vessel Code, Section IX) (1-80)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
F 6-6T 	Welding of Structural Components (AWS D1.1 with Additional Reguirements) (6-73)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Inactive.
F 6-7T	Weldability Tests for Materials (7-71)	OR NL/	//	Discontinued.
F 6-8	Welding of Pressure Boundary Components (Supplement to ASME Boiler and Pressure Vessel Code, Section VIII)	ORNL/	/ /	Development withheld.
F 6-10T	Repair of Materials by Welding (7-71)	OR NL/	//	Discontinued.
F 6-11T	Fabrication and Installation of Piping Subassemblies for Liquid Metal Service (8-71) 	ETEC/ D. A. Larson	NEP/ CRBRPO-OR/ J. W. Cooke	Published.
F 6-14T	Brazing Fabrication Requirements (7-71)	ORNL/	//	Discontinued.
≀ F 7~1T 	Continuous Identification Marking of Wrought Metal Products (9-67)	ORNL/	/ /	Discontinued.
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NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOP BRANCH/ ENGINEER	REMARKS
F 7-2T	Packaging, Packing, and Marking of Components for Shipment and Storage (9-75)	HEDL/ J. A. Trzecieski	NEP/ OSQ-QAS/ R. H. Kuhnapfel	Published.
F 7-3T	Marking of Components and Parts (6-75)	HEDL/ J. N. Nansen	NEP/ OSQ-QAS/ R. H. Kuhnapfel	Published.
F 8-1T	Preloaded Threaded Pasteners and Closures (11-76)	ORNL/ C. A. Burchsted	NEP/ OLWR-MS/ J. R. Hunter	Published.
F 8-6T	Hoisting and Rigging of Critical Components and Related Equipment (1-80)	RSO/ ORNL/ PM/ C. A. Burchsted, ORNL WGC/ C. A. Munro, HEDL RCC/ T. H. Stickley, EG8G	NEP/ RRT-FM/ G. A. Hanlon	LCS initiated.
F 8-6T	Hoisting and Rigging of Critical Components and Related Equipment (1-80) 	ORNL/ C. A. Burchsted	NEP/ RRT-PM/ G. A. Hanlon	
F 8-7T	Transportation of Critical Components and Equipment (1-76)	ORNL/ C. A. Burchsted	NEP/ OSQ-QAS/ M. E. Langston	Published.
F 8-9T	Design Basis for Fuel and Irradiations Experiment Resistance to Shock and Vibration in Truck Transport (2-75)	SRO/ G. W. May	NEP/ OSQ-OAS/ B. C. Wei	Published.
F 8-10	 Transportation Management of Radioactive Materials () 	 SRO/ G. W. May 	NEP/ OSQ-QAS/ B. C. Wei	Not in work.
! F 8-11T 	Fuel Shipping Container Tiedown for Truck Transport (1-75) 	SRO/ C. G. Halsted	NEP/ OSQ-QAS/ B. C. Wei	Published.
 F 8-12 	Fuel Shipping Container Tiedown for Rail Transport ()	! SRO/ G. W. May !	NEP/ OSQ-QAS/ B. C. Wei	Not in work.
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P - PROGRAMS, PROCEDURES, METHODS

NE (RDT)		SW/	DOE	
STANDARD NUMBER	I TITLE	COGNIZANT ENGINEER	BRANCH/ BNGINEER	I REMARKS I
	 		BNGINEER	MBGRAND
F 9-1T	Requirements for Nuclear Components at Elevated Temperatures (Supplement to ASME Elevated Temperature Code Case 1331) (4-73)	/	/ /	Discontinued.
F 9-2T	Seismic Requirements for Design of Nuclear Power Plants and Nuclear Test Facilities (1-79)	ORNL/ T. W. Pickel	NEP/ OLWR-MS/ J. R. Hunter	Published.
F 9-4T	Requirements for Construction of Class 1 Elevated Temperature Nuclear System Components (Supplement to ASME Code Cases 1592, 1593, 1594, 1595, and 1596) (4-77)	ARD/ A. L. Snow	NEP/ OLWR-MS/ J. R. Hunter	Published.
F 9-5T	Guidelines and Procedures for Design of Nuclear System Components at Elevated Temperature (9-74)	ARD/ A. L. Snow	NEP/ OLWR-MS/ J. R. Hunter	Published.
₽ 9-7	Structural Design Guideline for FBR Core Components Structural Design Criteria ()	GE-ARSD/ J. D. Stephen	NEP/ RRT-FD/ R. Neuhold	
P 9-8	Structural Design Guideline for FBR Core Components Guidelines for Analysis ()	GE-ARSD/ J. D. Stephen	NEP/ RRT-FD/ R. Neuhold	
r 9-9	Structural Design Guideline for FBR Core Components Rationale ()	GE-ARSD/ J. D. Stephen	NEP/ RRT-FD/ R. Neuhold	
F 10-1	Liquid Metal Fire Protection ()	HEDL/ W. E. Taylor	/ NEP assignment not to be made/	Work on NE standard cancelled; being developed as a national standard by ANS 54.8.
F 11-1T	Analytical Chemistry Methods for Mixed Oxide Fuel (5-77)	HEDL/ W. L. Delvin	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
F 11-2T	Analytical Chemistry Methods for Boron Carbide Absorber Material (7-77)	HEDL/ W. L. Delvin	NEP/ BRT-FD/ Kerze	Published.
F 11-3T	Analytical Chemistry Methods for Metallic Core Components (9-75)	HEDL/ W. L. Delvin	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
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NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ BNGINEER	REMARKS
I F 11-4T	Determination of a Figure of Merit for Pu02-U02 Fuel Pellet Homogeneity by Use of an Electron Microprobe (9-72)	HEDL/ W. E. McClung	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
F 11-5T	Determination of Fuel Pellet Homogeneity by Alpha-Autoradiography (5-75)	HEDL/ W. E. McClung	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
F 11-6T	Ceramographic Preparation of Mixed Oxide Fuel Pellets (1-73)	HEDL/ D. E. Rasmussen	NEP/ FPTFPO-RL/ V. C. Wahler	Published.

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
N 1-1T	Stainless Steel Covered Welding Electrodes (ASME SFA-5.4 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
N 1-2T	Stainless Steel Welding Rods and Bare Electrodes (ASME SFA-5.9 with Additional Requirements) (10-78)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
й 1-3T	Mild Steel Covered Welding Electrodes (ASME SFA-5.1 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 1-4T	Low Alloy Steel Covered Welding Electrodes (ASME SFA-5.5 with Additional Reguirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
H 1-5T	Welding Rods and Electrodes, Surfacing (AWS A5.13 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
H 1-6T	Mild Steel Electrodes for Gas Metal-Arc Welding (ASME SFA-5.18 with Additional Requirements) (3-77)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 1-7T	Copper and Copper Alloy Welding Electrodes (ASME SFA-5.6 with Additional Requirements) (7-71)	ORNL/	//	Discontinued.
M 1-8T	Copper and Copper Alloy Welding Rods (ASME SFA-5.7 with Additional Requirements) (7-71)	ORNL/	//	Discontinued.
м 1-9т	Brazing Filler Metal (ASME SFA-5.8 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
н 1-10т	Nickel and Nickel Alloy Covered Welding Electrodes (ASME SFA-5.11 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
5 1-11T	Nickel and Nickel-Alloy Bare Welding Rods and Blectrodes (ASME SPA-5.14 with Additional Requirements) (5-77)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 1-15T	Nickel-Molybdenum-Chromium Alloy Bare Welding Rods and Electrodes (4-77)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.

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NUMBER	TITLE	ENGINEER	ENGINEER	REMARKS
		i	1	i
M 1-16T	Zirconium and Zirconium Alloy Bare Welding Rods (ASTM B 351 with Additional Requirements) (1-72)	ORNL/	1 / /	Discontinued.
5 1-17T	Bare Carbon Steel Electrodes and Fluxes for Submerged Arc Welding (ASME SFA-5.17 with Additional Requirements) (3-77)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
и 1-18т	Fluxes for Submerged Arc Welding of Mild Steel (ASME SFA-5.17 with Additional Requirements) (7-71)	ORNL/	/ /	Superseded by M 1-17T, 3/75.
и 1-191	Nickel-Chromium-Molybdenum-Columbium Bare Welding Rods and Electrodes (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
n 1-20T	Mild Steel Electrodes for Flux-Cored Arc Welding (ASME SFA-5.20 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Inactive.
M 1-21T	Consumable Welding Inserts (4-80)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
N 1-22T	Bare Low-Alloy Steel Electrodes and Pluxes for Submerged Arc Welding (ASME SFA-5.23 with Additional Requirements) (11-77)	ORNL/ R- C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 1-23T	2-1/4%-Chromium, 1%-Molybdenum Alloy Bare Welding Rods and Electrodes (3-77)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 2~1T	Carbon Steel Forgings for Piping Components (ASME SA-105 with Additional Requirements) (4-76)	ORNL/	/ /	 Superseded by NE(EDT) M 2-21T, 12-77.
М 2-2Т	Stainless and Low Alloy Steel Forgings (ASME SA-182 with Additional Requirements) (4-76)	ORNL/	/ /	Superseded by NE(RDT) M 2-21T, 12-77.
М 2-3Т	Carbon and Alloy Steel Welding Fittings (ASME SA-234 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 2-4T	Alloy Steel Forgings (ASME SA-336 with Additional Requirements) (4-76)	ORNL/	//	Superseded by NE(RDT) M 2-21T, 12-77.
M 2-5T	Austenitic Stainless Steel Welding Fittings (ASME SA-403 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	 NEP/ OLWR-MS/ J. R. Hunter	 Published.

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ BNGINEER	REMARKS
м 2-6т	Martensitic Stainless Steel (Type 403) Forgings (ASME SA-182 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
м 2-7т	Carbon and Alloy Steel Forgings, Vacuum Treated (ASME SA-508 with Additional Requirements) (4-76)	ORNL/	11	Superseded by NE(RDT) M 2-21T, 12-77.
M 2-8T	Carbon and Alloy Steel Forgings (ASME SA-541 with Additional Requirements) (4-76)	ORNL/	/ /	Superseded by NE(RDT) M 2-21T, 12-77.
M 2-9T	Zirconium and Zirconium Alloy Forgings and Extrusions (ASTM B 356 with Additional Requirements) (1-72)	ORNL/	//	Discontinued.
M 2-11T	Nickel-Molybdenum-Chromium Alloy Forgings (ASME SA-182 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
ਰ 2-12T	Nickel-Molybdenum-Chromium Alloy Welding Fittings (ASME SA-403 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 2-15T	Nickel-Chromium Alloy Bars, Forgings, and Forging Stock (ASME SA-637 with Additional Requirements) (7-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 2-16T	Tungsten Forgings (AMS 7897 with Additional Reguirements) (1-72)	ORNL/	//	Discontinued.
M 2-17T	Precipitation Hardening Alloy Bars, Forgings, and Forging Stock (ASTM A 461 with Additional Requirements) (9-72)	OR NL/	//.	Discontinued.
M 2-18T	Precipitation Hardening Nickel Alloy Bars, Forgings, and Forging Stock for High-Temperature Service (ASTM A 637 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
н 2-19т	2-1/4%-Chromium, 1%-Molybdenum Alloy Steel Tubesheet Forgings (ASMF SA-336 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ CRBRPO-OR/ E. A. Wright	Published.
M 2-20T	Nickel Alloy Forgings (ASME SB-564 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 2-21T	Forgings and Bars for Nuclear and Other Special Applications (ASME SA-654 with Additional Reguirements) (12-77)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
M 3-1T	Carbon Steel Seamless Pipe (ASME SA-106 with Additional Reguirements) (4-76)	ORNL/	/ /	Superseded by NE(RDT) M 3-34T, 12-77.
н 3-2т	Stainless and Alloy Steel Seamless Tubes (ASME SA-213 with Additional Requirements) (4-76)	ORNL/	//	Superseded by NE(RDT) M 3-34T, 12-77.
M_3-3T	Austenitic Stainless Steel Seamless Pipe (ASME SA-376 with Additional Requirements) (4-76)	ORNL/	//	Superseded by NE(RDT) M 3-34T, 12-77.
M 3-4T	Nickel Alloy Seamless Tubes (ASME SB-163 with Additional Reguirements) (4-80)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
м 3-5т	Austenitic Stainless Steel Welded Tubing (ASME SA-249 with Additional Requirements) (4-76)	ORNL/	/ /	Superseded by NE(RDT) M 3-34T, 12-77.
М 3-6Т	Austenitic Stainless Steel Pipe (ASME SA-312 with Additional Reguirements) (4-76)	ORNL/	//	Superseded by NE(RDT) M 3-34T, 12-77.
и 3-7т	Austenitic Stainless Steel Welded Pipe, Large Diameter (ASME SA-358 with Additional Requirements) (4-75)	ORNL/	//	Superseded by NE(RDT) M 3-34T, 12-77.
M 3-8T	Zirconium and Zirconium Alloy Tubes (ASTM B 353 with Additional Reguirements) (1-72)	ORNL/	//	Discontinued.
м 3-9T	Nickel-Iron-Chromium Alloy Seamless Pipe and Tubing (ASME SB-407 with Additional Requirements) (5-80)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
и 3-10т	Nickel-Molybdenum-Chromium Alloy Seamless Pipe and Tubes (ASME SB-167 with Additional Requirements) (4-76)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 3-11T	Carbon and Low Alloy Steel Welded Pipe (ASME SA-155 with Additional Requirements) (5-75)	ORNL/	//	Superseded by NE(RDT) H 3-34T, 12-77.
M 3-12T	Seamless Ferritic Alloy Steel Pipe (ASME SA-335 with Additional Requirements) (4-76)	ORNL/	/ /	Superseded by NE(RDT) M 3-34T, 12-77.
и 3-16т	Carbon and Alloy Steel Pipe (ASME SA-333 with Additional Reguirements) (4-76)	ORNL/	/ /	Superseded by NE(RDT) M 3-34T, 12-77.
Н 3-17Т	Nickel-Molybdenum-Chromium Alloy Welded Pipe (ASME SA-358 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.

NE(RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
H ,3-18T	Nickel-Molybdenum-Chromium Alloy Seamless Tubes (ASME SB-163 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
н 3-20т	Polyethylene Instrument Tubing (1-72)	/	//	Discontinued.
M 3-26T	Seamless Austenitic Stainless Steel Tubes with Integral Fins (ASTM A 498 with Additional Requirements) (2-72)	HEDL/	/ /	Discontinued.
M 3-27T	Seamless and Welded Small Diameter Austenitic Stainless Steel Tubing (ASTM A 632 with Additional Requirements) (8-79)	ORNL/ R. C. Eudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
H 3-28T	Austenitic Stainless Steel and Superalloy Tubing for BRP Core Components (11-77)	HEDL/	//	Discontinued
M 3-29T	Nickel-Chromium-Molybdenum-Columbium Alloy Seamless Tubes (AMS 5589 with Additional Requirements) (4-76)	ORNL/	NEP/ OLWR-MS/ J. R. Hunter	Published.
N 3-30T	Nickel-Chromium-Molybdenum- Columbium Alloy Seamless Tubes (AMS 5590 with Additional Requirements) (4-76)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
н 3-31т	Stainless Steel Centrifugally Cast Pipe (ASME SA-451 with Additional Requirements) (4-76)	ORNL/	/ /	Superseded by NE(RDT) M 4-6T, 12-77.
M 3-32T	Seamless Medium Carbon Steel Boiler and Superheater Tubes (ASME SA-210 with Additional Requirements) (4-76)	ORNL/	11	Superseded by NE(RDT) M 3-34T, 12-77.
M 3-33T	2-1/4%-Chromium, 1%-Molybdenum Alloy Steel Seamless Tubes (ASME SA-213 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ CRBRPO-OR/ E. A. Wright	Published.
.м 3-34т i	Pipe and Tubing for Nuclear and Other Special Applications (ASME SA-655 with Additional Requirements) (4-80)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
n 3-35	Austenitic Stainless Steel and Superalloy Duct Tubes for BPR Core Components and Assemblies ()	HEDL/ R. C. Aungst	NEP/ FFTPPO-RL/ J. Krupar	Draft in work.
H 4-1T	Carbon Steel Castings (ASME SA-216 with Additional Requirements) (4-76) 	ORNL/	/. /	Superseded by NE(PDT) M 4-6T, 12-77.

NE (RDT)		SW/	DOE	
STANDARD NUMBER	TITLE	COGNIZANT ENGINEER 	BRANCH/ ENGINEER	REMARKS
# 4-2T	Austenitic Stainless Steel Castings (ASME SA-351 with Additional Requirements) (4-76)	ORNL/	/ //	Superseded by NE(RDT) M 4-6T, 12-77.
M 4-3T	Cobalt-Chromium Alloy Castings (7-75)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 4-4T	Alloy Steel Castings (ASME SA-217 with Additional Requirements) (4-76)	ORNL/	/ /	Superseded by NE(RDT) M 4-6T, 12-77.
M 4-5T	Nickel-Molybdenum-Chromium Alloy Castings (ASTM A 494 with Additional Requirements) (4-76)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
м 4-6т	Steel Castings for Nuclear and Other Special Applications (ASME SA-613 with Additional Requirements) (12-77)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 5-1T	Stainless Steel Plate, Sheet, and Strip (ASME SA-240 with Additional Requirements) (4-76)	ORNL/	//	Superseded by NE(RDT) M 5-23T, 9-77.
M 5-2T	Carbon Steel Plates (ASME SA-516 with Additional Requirements) (4-76)	ORNL/	<i>' '</i>	Superseded by NE(RDT) M 5-23T, 9-77.
м 5-3т	Low Alloy Steel Plates (ASME SA-533 with Additional Requirements) (4-76)	ORNL/		Superseded by NE(RDT) M 5-23T, 9-77.
M 5-4T	Nickel-Chromium-Iron Alloy Plate, Sheet, and Strip (ASME SB-168 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
м 5-5 т	Low Alloy Steel Plates (ASME SA-387 with Additional Requirements) (4-76)	ORNL/	//	Superseded by NE(RDT) M 5-23T, 9-77.
M 5-6T	Zirconium and Zirconium Alloy Plate, Sheet, and Strip (ASTM B 352 with Additional Requirements) (1-72)	ORNL/	/ /	Discontinued.
M 5-7T	Nickel-Iron-Chromium Alloy Plate, Sheet, and Strip (ASME SB-409 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 5-8T	Nickel-Molybdenum-Chromium Alloy Sheet and Plate (ASME SB-434 with Additional Requirements) (8-79)	 ORNL/ R. C. Hudson 	NEP/ OLWR-MS/ J. R. Hunter	Published.

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOB BRANCH/ ENGINEER	REMARKS
M 5-19T	 Austenitic Stainless Steel Plate, Sheet, and Strip for Core Components (3-73) 	 HEDL/ R. D. Borisch	NEP/ FFTFPO-RL/ V. C. Wabler	Published.
M 5-20T	Nickel-Chromium-Molybdenum-Columbium Alloy Plate, Sheet, and Strip (AMS 5597 with Additional Requirements) (8-75)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 5-21T	Nickel-Chromium-Molybdenum-Columbium Alloy Plate, Sheet, and Strip (AMS 5596 with Additional Requirements) (4-75)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 5-22T	2-1/4-Percent-Chromium, 1-Percent-Molybdenum Alloy Steel Plates (ASME SA-387 with Additional Requirements) (4-76)	ORNL/	NEP/ CRBRPO-OR/ E. A. Wright	Superseded by NE(RDT) H 5-23T, 9-77.
M 5-23T	Steel Plates for Nuclear and Other Special Applications (ASME SA-647 with Additional Requirements) (9-77)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 6-1T	Alloy Steel Bolting Material for Low-Temperature Service (ASME SA-320 with Additional Requirements) (7-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 6-2T	Mechanical Locking Devices (3-69)	ORNL/ C. A. Burchsted	NEP/ OLWR-MS/ J. R. Hunter	Published.
м 6-3т	Alloy Steel Bolting Material for High-Temperature Service (ASME SA-193 with Additional Requirements) (7-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 6-4T	Alloy Steel Nuts for Bolting for High-Pressure and High-Temperature Service (ASME SA-194 with Additional Requirements) (7-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 6-5T	Alloy Steel Bolting Material for Special Applications (ASME SA-540 with Additional Requirements) (7-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
м 6-6т	High-Strength, High-Temperature Bolting Materials (ASME SA-453 with Additional Requirements) (7-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
M 7-1T	Martensitic Stainless Steel (Type 403) Bars (ASTM A 276 with Additional Requirements) (8-79)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.

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NUMBER	TITLE	ENGINEER	ENGINEER	REMARKS
<u>-</u>				
l H 7-2T	Nickel-Chromium-Iron Age-Hardenable Alloy Bar-Rod- and	ORNL/		Superseded by M 2-15T,
n /-21	Forgings (Modified ASTM A 461) (1-68)	I OKNL/		1 10/71, and M 2-17T, 9/72.
	iotythys (noutlied asin a 40%) (1-00)	Ì		1 107714 and n 2 1714 37722
M 7-3T	Alloy Steel Bars and Shapes (ASME SA-479 with	ORNL/	NEP/	Published.
	Additional Requirements) (8-79)	R. C. Hudson		1
!		1	J. R. Hunter	<u>'</u>
 B 7-4T	 Nickel-Chromium-Iron Alloy Rod and Bar (ASME SB-166	IORNL/	I NEP/	! Published.
1 12 1-4T	with Additional Requirements) (8-79)	R. C. Hudson	• ,	Fubitshed:
	"Ton undergrade no large and to the total	1	J. R. Hunter	i
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H 7-5T	Cobalt-Chromium-Tungsten- Nickel Alloy Rounds (6-71)	OR NL/	1./	Discontinued.
] 1 M 7-6T	Precipitation-Hardening Stainless Steel Bars, Shapes,	ORNL/	 NEP/	 Published.
1 m /-or	and Forgings (ASME SA-564 with Additional	R. C. Hudson		Published.
1	Requirements) (8-79)		J. R. Hunter	i
i		Ì	i	i
H 7-7T	Cobalt-Chromium Alloy Bars and Shapes (4-75)	ORNL/	NEP/	Published.
['		R. C. Hudson		
		 	J. R. Hunter	1 1
M 7-8T	Nickel-Chromium-Iron Alloy Wire (AMS 5687 with	ORNL/		Discontinued.
i	Additional Requirements) (7-71)	i i	i í	
1		1	1	1
N 7-9T	Zirconium and Zirconium Alloy Bars, Rod and Wire (ASTM	OR NL/	! / /	Discontinued.
i	B 351 with Additional Requirements) (1-72)	} !] !	4 ^ 11-1-1-1-1
i n 7-10T	Nickel-Iron-Chromium Alloy Rod and Bar (ASME SB-408	ORNL/	NEP/	Published.
i	with Additional Requirements) (8-79)	R. C. Hudson		ĺ
1		Į.	J. R. Hunter	1
(M 7-11T		1 0577 (Discontinued.
1 m /-iii	Nickel-Molybdenum-Chromium Alloy Rod and Bar (ASME SB-336 with Additional Reguirements) (4-76)	ORNL/	! / /	piscontinued.
1	OB 330 With Ruditional Regultements, (4 70)	, 	1 1]
i n 7-12T	Nickel Wire (3-70)	ETEC/	i / /	Discontinued. No longer in
1		!	1	use; little or no potential
1		[!	for future use.
 M 7-13T	 Ceramic-Insulated Magnet Wire (7-70)	 ETEC/	1	l Discontinued. No longer in
1		1	1	use: little or no potential
į		ĺ	İ	for future use.
1	<u> </u>	!	1	!
1 M 7-14T	Nickel-Molybdenum-Chromium Alloy Rod (ASME SB-336 with	ORNL/	! / /	Discontinued.
1	Additional Reguirements) (1-74)	1]]	1 1
M 7-22T	Tantalum-Tungsten Alloy Bars and Rods (AMS 7848 with	ORNL/	1 / /	Discontinued.
ł .	Additional Requirements) (9-72)	1	1	İ
1	 	1	I	1

M - MATERIALS

NE (RDT)			DOE	
STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	BRANCH/ BRGINEER	REMARKS
H 7-23T	Austenitic Stainless Steel Bar for Core Components (3-73)	HEDL/ R. D. Borisch	NEP/ FFTFPO-RL/ V. C. Wahler	Published.
H 7-24T	Austenitic Stainless Steel Wire for Core Components (3-73)	HEDL/ R. D. Borisch	NEP/ PFTFPO-RL/ V. C. Wahler	Published.
M 8-1T	Helical Age-Hardenable Nickel-Chromium-Iron Alloy Springs (5-75)	ORNL/ R. C. Hudson	NEP/ OLWR-MS/ J. R. Hunter	Published.
Ħ 9-1T	Nickel-Chromium-Iron and Austenitic Chromium-Nickel Alloy Seals (10-73)	OR NL/	<i>//</i>	Discontinued.
# 9-2T	Examination Requirements and Acceptance Standards for Seal Membranes (2-69)	ORNL/		Superseded by M 9-1T, 10/73.
H 10-1T	Zirconium and Zirconium Alloy Ingots (ASTM B 350 with Additional Reguirements) (1-72)	ORNL/	/ /	Discontinued.
H 11-1T	Non-Metallic Seal Materials (2-69)	ORNL/	11	Discontinued.
M 11-2T	I Impregnated Asbestos Packing Material (2-69)	ORNL/	//	Discontinued.
H 12-1T	Test Requirements for Thermal Insulating Materials for Use on Austenitic Stainless Steel (10-72)	ORNL/	/ /	Discontinued.
H 12-2T	Calcium Silicate Block and Pipe Thermal Insulation (ASTM C 533 with Additional Requirements) (6-71)	ORNL/	//	Discontinued.
н 12-3т	Mineral Fiber Hydraulic-Setting Thermal Insulating and Finishing Cement (ASTM C 449 with Additional Requirements) (10-71)	ORNI/		Discontinued.
H 12-4T	Reflective Insulation (1-72)	ORNL/ O. A. Kelly	NEP/ CRBRPO-OR/ J. W. Cooke	Published.
M 12-5T	Thermal Insulation, Flexible or Molded, High Temperature, Low Conductivity (5-72)	HEDL/ H. L. Pringle	NEP/ CRBRPO-OR/ J. W. Cooke	Published.
М 12-6Т	Mineral Fiber Thermal Insulation, High-Temperature, Rigid, Flexible, and Loose Fill (ASTM C 612 with Additional Requirements) (3-73)	HEDL/	 / / 	 Discontinued.

1 NE (RDT) 1 DOE 1						
NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	BRANCH/ BRANCH/ ENGINEER	1 		
N 13-1T	Sodium Purchase Specifications (9-73) 	HEDL/	NEP/ FFTFPO-RL/ A. R. DeGrazia	Published.		
N 14-1T	Sodium Cover Gas - Purchase Specifications (7-72)	HEDL/ J. J. McCown	NEP/ PPTFPO-RL/ A. R. DeGrazia	Published.		
M 14-2T	Fuel and Control Assembly Tag Gas (10-72)	HEDL/ C. A. Strand	NEP/ RRT-FD/ Kerze	Published.		
M 15-2	Materials for Marking Metal Products ()	ORNL/	!	To be incorporated in NE(RDT) F 7-3T.		
M 16-1T	Gas-Phase Adsorbents for Trapping Radioactive Iodine and Iodine Compounds (12-77)	ORNL/ C. A. Burchsted	NEP/ RRT-E/	Published.		
M 16-3T	HEPA Filter Medium, Glass Fiber (MIL-F-51079 with Modifications and Additional Requirements) (3-74)	ORNL/ C. A. Burchsted	NEP/ RRT-BC/ J. W. Newton	Published. 		
H 17-1T	 Sodium Carbonate, Low-Chloride Fire Extinguishing Agent (12-73) 	ETEC/ R. L. Eichelberger	NEP/RRT-FM/ G. A. Hanlon	·		
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P - ELECTRICAL

NE (RDT) STANDARD NUMBER	TITLE	SW/ COGNIZANT ENGINEER	DOE BRANCH/ ENGINEER	REMARKS
P 2-3	Criteria and Requirements for Class IE Electrical Systems ()	ORNL/	//	Development withheld.
P 2-5T	Medium Voltage Switchgear (10-75)	/	//	Discontinued. Little or no potential for future use.
P 2-6T	Undervoltage Relay for Plant Protection System Use (12-72)	/	/ /	Discontinued.
P 3-1T	Electric Penetration Assemblies in Containment Structures (IFEE 317 with Additional Requirements) (1-79)	ORNL/ C. A. Burchsted	NEP/ CRBRPO-OR/ D. R. Hicks	Published.
P 4-1T	Electric Heaters - Simulated LMFBR Fuel Pins (3-72)	ORNL/ R. McCulloch	NEP/ OLWR-SSE/ A. C. Millunzi	Published.
 P 4-3T 	 Metal-Sheathed, Mineral-Insulated Electrical Resistance Heater (3-75) 	 ETEC/ Klea 	NEP/ CRBRPO-OR/ Reese	Published.
 P 4-4T. 	Electric Heaters - Simulated Pressurized Water Reactor Fuel Pins (2-73)	ORNL/	/ /	Discontinued.