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**Status of Conversion of
NE Standards to
National Consensus Standards**

R. C. Hudson

R. J. McKee

OPERATED BY
MARTIN MARIETTA ENERGY SYSTEMS, INC.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY

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ORNL/NSP--89/61

DE89 007912

STATUS OF CONVERSION OF NE STANDARDS TO NATIONAL CONSENSUS STANDARDS

Performance Assurance Project Office

R. C. Hudson
R. O. McKee

Date Published - March 1989

Prepared by the
OAK RIDGE NATIONAL LABORATORY
Oak Ridge, Tennessee 37831
operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
DEPARTMENT OF ENERGY
under contract No. DE-AC05-84OR21400

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FOREWORD

One major goal of the Department of Energy (DOE) Nuclear Energy (NE) Standards Program is to utilize a proven method for transferring DOE's nuclear energy program experience to the private sector for commercial use. The proven method utilized by the Performance Assurance Project Office is the "conversion" of NE program standards to national consensus standards when practicable. This method meets the policy and guidance established in OMB Circular No. A-119, *Federal Participation in the Development and Use of Voluntary Standards*, October 27, 1982 and the objectives of DOE Order 1300.2, *Department of Energy Standards Program*, December 18, 1980.

Program standards were and are specifically designed to meet the needs of certain nuclear projects and thus are based on the highest level of DOE expertise and experience available at the time the standards are developed. Modifications to the standards are made as experience is gained through application of the standards to DOE's nuclear energy programs. Often, experience in the commercial sector provides the incentive to incorporate some or all requirements of specific program standards into national consensus standards. This is the process referred to as "conversion."

1. INTRODUCTION

One major goal of the Nuclear Standards Program is to convert existing NE standards into national consensus standards (where possible). This means that an NE standard may form the basis for a standards-writing committee to produce a standard in the same subject area using the national consensus process. This report is a summary of the activities that have evolved to effect conversion of NE standards to national consensus standards, and the status of current conversion activities. In some cases, all requirements in an NE standard will not be incorporated into the published national consensus standard because these requirements may be considered too restrictive or too specific for broader application by the nuclear industry. If these requirements are considered necessary for nuclear reactor program applications, the program standard will be revised and issued as a supplement to the national consensus standard. The supplemental program standard will contain only those necessary requirements not reflected by the national consensus standard. Therefore, while complete conversion of program standards may not always be realized, the standards policy has been fully supported in attempting to make maximum use of the national consensus standard.

2. CONVERSION PROCESS

The Working Group on Standards developed three basic steps in managing the conversion effort.

1. Establish criteria to identify NE standards eligible for conversion.
2. Prepare action plans to implement conversion.
3. Develop a system to monitor conversion activities.

2.1 CRITERIA TO IDENTIFY NE STANDARDS ELIGIBLE FOR CONVERSION

Early in the effort to establish criteria for standards to be converted, it was recognized that the need for a national consensus standard in a particular subject area should be the determining factor in

conversion of an existing NE standard. Focusing on the aspect of need, the following criteria were established.

1. Current need	Is there a current (and continuing) need for the standard?
2. Future need	Is significant future application of the standard by the nuclear industry anticipated?
3. Past use	Does previous application of the NE standard demonstrate a need for a national standard?
4. Scope and applicability	Can the scope or applicability be converted to the needs of the nuclear industry?
5. Special requirements	Is there validity and justification for the requirements in nuclear industry application?
6. Quality assurance requirements	Can ASME NQA-1 be applied instead of NE F 2-2 or NE F 2-4T?

The criteria should be applied in two steps.

1. If an individual NE standard meets criterion 1, 2, or 3, need for the NE standard is established.
2. If the NE standard then meets criteria 4, 5, and 6, the standard should be selected as a candidate for conversion to a national consensus standard.

In addition, any NE standard that is requested by a national standards organization for use in developing a national consensus standard will be made available to the requesting organization. The status of that effort will be included in the report on *Conversion of NE Standards to National Consensus Standards*, issued periodically by the Performance Assurance Project Office (PAPO).

2.2 PREPARATION OF PLANS TO IMPLEMENT CONVERSION

When a NE standard is identified as a candidate for conversion to a national consensus standard, the PAPO solicits information concerning counterparts in national consensus standards. The standards-writer organization is asked to provide this information because cognizant engineers for the NE standards are expected to be knowledgeable about standards activities in their specialties.

The conversion information is submitted to the PAPO, where it is used as the basis for developing a plan for conversion of the NE standard. Such a plan generally identifies the organization to be contacted, makes a recommendation for how conversion is to be accomplished, and indicates what assistance will be offered by the PAPO. Conversion efforts follow these plans, which are updated continuously to reflect ongoing activities.

2.3 DEVELOPMENT OF A SYSTEM TO MONITOR CONVERSION ACTIVITIES

The status on the *Conversion of NE Standards to National Consensus Standards* has been developed to monitor the conversion activities. The information provided by the standards-writer organization is incorporated, and the current status of conversion is reflected by appropriate entries.

The status of conversion has five parts: Part I reflects the number and title of the NE standard recommended for conversion; Part II consists of the NE standard status; Part III identifies those national consensus standard organizations, committees, and contacts; Part IV is the national consensus standard number, title, and status; and Part V is the chronology of the project.

3. STATUS OF CONVERSION OF NE STANDARDS TO NATIONAL CONSENSUS STANDARDS

Twenty-four NE standards have been converted to national consensus standards, and three have been partially converted. There are twenty-six standards in the conversion process that have been accepted by standards development organizations (e.g., ASME, ASTM, IEEE, and INMM).

The status of these 26 conversion activities is summarized in the following pages.

CONVERSION OF NE STANDARDS TO NATIONAL CONSENSUS STANDARDS
JANUARY 1989

LEGEND for Chronology of Project (1) Identified for conversion, (2) DOE approval to submit to a NCS for consideration, (3) Information package prepared, (4) Submitted to NCS Organization, (5) NCS begun, (6) NCS published, (7) NE and NCS compared to determine degree of conversion and status of NE Standard

NE Standard Recommended for Conversion	NE Standard Status	National Consensus Standard Organization, Committee, and Contact	National Consensus Standard Number, Title, and Status	Chronology of Project (Mo/Yr)
10500 A 1-5T Purity Requirements for Operating Sodium Reactor Systems (6-81) NE Status: MHC/ C. B. McCargar MDO-FTTPOD/ D. M. Collado	Latest Action: NE standard resubmitted to ASTM C26 02 Committee for consideration of conversion to an ASTM national consensus standard (PAFO-88-125, 9/9/88)	Organization ASTM Committee Number ASTM C 26 02 Subcommittee on Fuel and Fertile Materials Committee Contact: G. Kisp, Chairman ASTM C 26 02 NE Standard Org. Contact: R. C. Hudson, ORNL	Number: None Title: Status:	1) 1981 2) 1981 3) 1988 4) 1988 5) 6) 7)
60100 C 1-1T Instrumentation and Control Equipment Grounding and Shielding Practices (1-73) NE Status: Published MHC/ R. M. Boger MDO-FTTPOD/ D. M. Collado	Latest Action: Standard information package has been submitted to IEEE (MSTS-82-156)	Organization IEEE Power Engineering Society Committee Number Committee Contact: B. Gorensson, IEEE S. Nikolakakos M. V. Thaden NE Standard Org. Contact: R. A. Thiede, MHC R. C. Hudson, ORNL	Number: IEEE-P1050 Title: Guide for Instrumentation and Control Equipment Grounding and Shielding for Generating Stations Status: Draft 8, dated 7/6/88, approved by Subcommittee and submitted to IEEE Standards Board for approval. Publication expected in Spring 1988.	1) 1980 2) 1980 3) 1982 4) 1982 5) 1984 6) 7)
60200 C 1-2T Recommended Practice for High-Temperature Strain Measurement (10-85) NE Status: Published. Limited coordination standard. ORNL/ PM/R. C. Hudson, ORNL/ MHC-J. E. Smith, ORNL TSP/ B. C. Wei	Latest Action: Standard submitted to ASTM for consideration as a basis for a national consensus standard (PATS-85-68)	Organization: ASTM Committee Number E-28.16 Committee Contact: G. Moran, Chairman of ASTM E 28.16 J. E. Smith, ORNL NE Standard Org. Contact: R. C. Hudson, ORNL	Number: PEP Temp. No. 28-018 Title: High-Temperature Strain Measurement Status: Draft 5 received editorial comments on the E28 ballot. Comments are being addressed	1) 1985 2) 1985 3) 1985 4) 1985 5) 1986 6) 7)
121700 C 7-17T Platinum Resistance Thermometer (4-75) NE Status: Published. MHC/ J. M. Connell MDO-FTTPOD/ D. M. Collado	Latest Action: NE standard used as input. The ASTM standard does not replace C 7-17T. C 7-17T was used for FTTT and would have been used for the CRBRP/PO. New draft will eventually replace C 7-17T	Organization: ASTM Committee Number E20 Committee Contact: R. L. Shepard, ORNL NE Standard Org. Contact: R. A. Thiede, MHC	Number: E20-D-9 Title: Standard Specifications for Industrial Platinum Resistance Thermometers Status: Negative comments on draft 6 resolved. A new ballot for E20 will be issued in February 1988 (11/88)	1) 1980 2) 1980 3) 1981 4) 1981 5) 1982 6) 7)

CONVERSION OF NE STANDARDS TO NATIONAL CONSENSUS STANDARDS
JANUARY 1988

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NE Standard Recommended for Conversion	NE Standard Status	National Consensus Standard Organization, Committee, and Contact	National Consensus Standard Number, Title, and Status	Chronology of Project (Mo/Yr)
220100 C 17-1T High-Temperature Electrical Connectors and Hemostatic Seals (3-70) NE Status: WEC/ J. H. Grover ND-LMST/ A. P. D'Smura	Latest Action: Standard submitted to IEEE for consideration as a basis for a national consensus standard (PATS-87-27). Another copy was forwarded to Fred Huber of IEEE at his request (PAFO-88-09). This standard is to be dropped from next conversion report.	Organization: IEEE Committee Number: Committee Contact: Andrew Salas, IEEE NE Standard Org. Contact: R. C. Hudson, CHSE	Number: Title: Status: IEEE referred standard to Nuclear Power Engineering Committee for consideration for IEEE development. Committee reported that there was definitely no interest (IEEE 4/4/88).	1) 1985 2) 1986 3) 1986 4) 1987 5) 6) 7)
220500 C 17-5T Metal-Sheathed, Mineral-Insulated Cable Bulk Material (2-73) NE Status: Published. Supersedes C 7-14T, 3-70, in part. ETEC/ W. E. Burns EFD-OR/ G. Santos-Leon	Latest Action: Standard identified for conversion and will be submitted to a NSO when all information and approvals are available. Standard information from ETEC is expected by 12/31/88.	Organization: ASTM Committee Number: Committee Contact: NE Standard Org. Contact: J. K. Bellwill, ETEC	Number: ASTM Title: Status: 7)	1) 1985 2) 1986 3) 4) 5) 6) 7)
230100 C 18-1T Ceramic Electrical Insulators (8-74) NE Status: Published. ETEC/ W. E. Burns ARP-LMST/ To be determined	Latest Action: Standard identified for conversion and will be submitted to a NSO when all information and approvals are available. Standard information from ETEC is expected by 12/31/88.	Organization: ASTM Committee Number: Committee Contact: NE Standard Org. Contact: J. K. Bellwill, ETEC	Number: ASTM D 2442-75 Title: Alumina Ceramics for Electrical and Electronic Applications Status: Published. ASTM D 2442 is not an exact equivalent but could be modified to include C 18-1T requirements.	1) 1985 2) 1986 3) 4) 5) 6) 7)

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NE Standard Recommended for Conversion	NE Standard Status	National Consensus Standard Organization, Committee, and Contact	National Consensus Standard Number, Title, and Status	Chronology of Project (Mo/Yr)
420400 E 12-4T Shielded Shipping Cask for Spent Reactor Fuel Elements (8-73) NE Status: Published. ORNL/ R. C. Hudson TSP/ B. C. Wei	Latest Action Standard submitted to INPM N14 Committee for consideration in developing a national consensus standard	Organization: INPM - Institute of Nuclear Materials Management Committee Number: INPM N14, Packaging and Transportation of Fissile and Radioactive Materials Committee Contact: J. W. Arendt, Chairman N14 R. Hoelsig, Coordinator D. Dawson, Chairman N14.8 NE Standard Org. Contact: R. C. Hudson, ORNL	Number: ANSI/INPM N14.8 Title: Fabricating, Testing and Inspection of Shielded Shipping Casks for Irradiated Reactor Fuel Elements Status: Standard is to be coordinated with ASME/NUFAC Committee. A peer review panel is to be appointed to review DOE requirements and decide if a standard is required since there is only one customer. Panel will operate outside normal INPM activities and funds will be provided by DOE for some participants. Committee is inactive at this time.	1) 1980 2) 1981 3) 1981 4) 1981 5) 6) 7)
420500 E 12-5T Operating Manuals for Fuel Shipping Containers (1-75) NE Status: Published. SRO/ G. W. May TSP/ B. C. Wei	Latest Action After completion of five year review, comparison will be made between NE and NCS and next action determined.	Organization: INPM Committee Number: INPM N14, Packaging and Transportation of Fissile and Radioactive Material Committee Contact: J. W. Arendt, Chairman N14 J. W. Arendt, Coordinator R. T. Walte, Chairman N14.29 NE Standard Org. Contact: R. C. Hudson, ORNL	Number: ANSI/INPM N14.29 (N678) Title: Guide for Writing Operating Manuals for Radioactive Materials Packaging Status: Published. Committee responding to ballots and comments.	1) 1976 2) 1981 3) 1981 4) 1981 5) 1980 6) 7)
420700 E 12-7T Inspection and Preventive Maintenance of Fuel Shipping Containers (1-75) NE Status: Published. SRO/ G. W. May TSP/ B. C. Wei	Latest Action Standard submitted to N14 Committee for consideration in developing a national consensus standard.	Organization: INPM Committee Number: INPM N14, Packaging and Transportation of Fissile and Radioactive Materials Committee Contact: J. W. Arendt, Chairman N14 J. W. Arendt, Coordinator NE Standard Org. Contact: R. Hudson, ORNL	Number: ANSI/INPM N14.26 Title: Inspection and Preventative Maintenance of Packaging for Radioactive Materials Status: Standard might not be required in light of NRC Appendix E. Effort will be made to draft new scope for submission to N14 Committee. New Chairman to be appointed.	1) 1980 2) 1981 3) 1981 4) 1981 5) 6) 7)

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NE Standard Recommended for Conversion	NE Standard Status	National Consensus Standard Organization, Committee, and Contact	National Consensus Standard Number, Title, and Status	Chronology of Project (Mo/Yr)
430200 E 13-27 Ceramic Grade Uranium Dioxide (1-84) NE Status: NEC/ C. A. Strand AND-PPFOD/ D. M. Collado	Latest Action: Standard submitted to ASTM C26.02 Subcommittee for consideration for conversion, per letter from V. C. Mahler (DOE, Richland) to PAFO dated 12/01/85. NZ standard will be reviewed against the revision to the ASTM standard, when issued, to determine if conversion is complete.	Organization: ASTM C26 Nuclear Fuel Cycle Committee Committee Number: ASTM C26.02 Subcommittee on Fuel and Fertilizer Materials Committee Contact: G. Kilp, Chairman ASTM C26.02 NE Standard Org. Contact: R. C. Hudson, ORNL	Number: ASTM C 753 Title: Standard Specification for Nuclear-Grade, Sinterable Uranium Dioxide Powder Status: The ASTM standard has been revised, received C26 and ASTM approval. Revised standard should meet intent of the NE E 13-27 standard.	1) 1986 2) 1986 3) 1986 4) 1987 5) 1987 6) 1988 7)
520000 F 2-01 Reliability Assurance (6-74) NE Status: Published. AESD/ F. A. Lijewski QA/ E. F. Bjoro	Latest Action: Draft revision of standard submitted to IEEE for use in developing NCS.	Organization: IEEE Committee Number: SC-5 Committee on Reliability Committee Contact: Will Gangloff, Westinghouse MOD, Chairman, SC-5 Joseph Fragola, Chairman, SC-5.1. NE Standard Org. Contact: G. F. Flanagan, ORNL F. A. Lijewski, AESD	Number: IEEE P933 Title: Guide for the Definition of Reliability Program Plans for Nuclear Power Generating Stations Status: Committee to meet in January 1988 to resolve comments. To IEEE Standards Board in June 1988.	1) 1980 2) 1981 3) 1981 4) 1981 5) 1985 6) 7)
521000 F 2-10 Quality Assurance Program Requirements (Supplement to ANSI/ASME NQA-1) (8-85) NE Status: Published. NEC/ W. J. Hinkelman QA/ To be determined.	Latest Action: Letter forwarded to ASME to consider conversion of NE standard to a national consensus standard. Memo from F. W. Knight 10/10/87 NQA Committee. Most NE requirements now in NQA-1, one-fourth of requirements may be too prescriptive (appears to be three-fourths converted to a NCS). W. J. Hinkelman has been requested to review F 2-10 against NQA-1, 2 and 3, to determine extent of requirements that have not been incorporated.	Organization: ASME Committee Number: ASME NQA General Programmatic Subcommittee Committee Contact: F. W. Knight, Chairman Jim Terry, Chairman of Main Committee NE Standard Org. Contact: M. E. Largent, SQAS	Number: ANSI/ASME NQA-1 (Revision of ANSI N45.2) Title: Quality Assurance Program Requirements for Nuclear Power Plants Status: Published.	1) 1985 2) 1985 3) 1985 4) 1985 5) 1986 6) 1986 7)

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NE Standard Recommended for Conversion	NE Standard Status	National Consensus Standard Organization, Committee, and Contact	National Consensus Standard Number, Title, and Status	Chronology of Project (Yr/Mo/Tx)
S-1500 F 3-15T Requirements for Inspection of Dimensions: Characteristics (8-73) NE Status: Published. NEC/ W. J. Hinkelman QA/ To be determined.	Latest Action: The Z1 Committee did not use F 3-15T. F 3-15T was included as Appendix A of the January 1981 revision of F 2-4. Standard will be considered for inactivation (11/88).	Organization: Z1 Committee on Quality Assurance Committee Number: ASQC MG for Quality Standards for Calibration Systems and Measurements Committee Contact: Rolf B. Schumacher, RI Chairman NE Standard Org. Contact: R. A. Thiede MEC	Number: ANSI Z1 Standard - Draft M1 Title: American Standard for Calibration Systems Status: Standard was approved and published in October 1987.	1) 1979 2) 1979 3) 1979 4) 1979 5) 1979 6) 1987 7)
S34100 F 3-41T In-Place Testing of HEPA Filter Systems by the Single-Particle, Particle-Size Spectrometer Method (12-81) NE Status: Published. Limited coordination standard. LANL PM; LANL MEC; NEC/ B. D. Reinert, NEHF; J. C. Elder, LANL; E. D. Reinert, NEHF EN-CG/ P. Muebach	Latest Action: ASTM conversion effort is in progress. Material was forwarded to W. Y. Davis, Univ. of Tennessee, Chairman of ASTM F21 Committee. Letter forwarded to W. Bergman of LLNL regarding approval to start an ASTM consensus standard in this area (PAPS-85-32).	Organization: ASTM Committee Number: ASTM F 21.20, Gas Filtration Subcommittee Committee Contact: W. Y. Davis, Chairman, ASTM F21 John Ortiz, Task Group Chairman, LANL NE Standard Org. Contact: B. D. Reinert LANL	Number: Title: Status: John Ortiz has formed a Task Group to develop test protocol and a Round Robin Test program (11/88).	1) 1981 2) 1982 3) 1982 4) 1986 5) 1987 6) 7)
S68200 F 6-2T Welding of Reactor Core Components and Test Assemblies (7-73) NE Status: NEC/ W. F. Brown AND-PFTTCD/ D. M. Collado	Latest Action: Information package forwarded to American Welding Society.	Organization: The ASME Boiler Code Committee did not have an interest in the NE standard. (Per letter from K. Ennis, ASME, 1-27-88.) The American Welding Society has expressed an interest in retrieving the standard. Committee Number: Committee Contact: Kevin Ennis, ASME NE Standard Org. Contact: R. C. Hudson, ORNL	Number: Title: Status: The American Welding Society staff is reviewing with responsible Technical Committee (11/88).	1) 1985 2) 1985 3) 1986 4) 1986-87 5) 6) 7)

**CONVERSION OF NE STANDARDS TO NATIONAL CONSENSUS STANDARD:
JANUARY 1988**

LEGEND for Chronology of Project: (1) Identified for conversion, (2) JOE approval to submit to a NCS for consideration, (3) Information package prepared, (4) Submitted to NCS Organization, (5) NCS begun, (6) NCS published, (7) NE and NCS compared to determine degree of conversion and status of NE Standard

NE Standard Recommended for Conversion	NE Standard Status	National Consensus Standard Organization, Committee, and Contact	National Consensus Standard Number, Title, and Status	Chronology of Project (Mo/Yr)
570200 F 7-21 Packaging, Packing, and Marking of Components for Shipment and Storage (8-75) NE Status: Published. NRC/ W. R. Coplinger TSP/ J. W. Wagoner	Latest Action: Conversion process has not started. Information package completed by NSPC and forwarded to ASTM for consideration as basis of new ASTM consensus standard, NIST-84-1, 1-16-84.	Organization: ASTM Committee Number: ASTM C26.02 Committee Contact: G. R. Kilp, ASTM NE Standard Org. Contact: R. C. Hudson, ORNL	Number: Title: Status: NE standard still being considered for conversion. will check during January 1988 meeting.	1) 1978 2) 1983 3) 1984 4) 1984 5) 1984 6) 7)
570300 F 7-3T Marking of Components and Parts (8-75) NE Status: Published. NRC/ J. W. Hanson TSP/ J. W. Wagoner	Latest Action: Conversion process has not started. Information package completed by NSPC and forwarded to ASTM for consideration as basis of new ASTM consensus standard, NIST-84-1, 1-16-84.	Organization: ASTM Committee Number: ASTM C26.02 Committee Contact: G. R. Kilp, ASTM NE Standard Org. Contact: R. C. Hudson, ORNL	Number: Title: Status: NE standard still being considered for conversion. will check during January 1988 meeting.	1) 1978 2) 1983 3) 1984 4) 1984 5) 1984 6) 7)
580100 F 8-1T Preloaded Threaded Fasteners and Closures (11-76) NE Status: Published. ORNL/ R. C. Hudson TSP-ATD/ C. C. Sigelow	Latest Action: Conversion process has not started. Information package completed and forwarded to ASPE for consideration as basis of new ASPE consensus standard (NIST-P-22, 4/11/84). Memo received "Proposed GPH Standard on Fasteners," 4/23/84, from E. W. Williamson, Chairman of GPH Committee. Memo from F. C. Zapp to Williamson, NIST-84-32, 5/11/84. G. T. Yahr, ORNL, will review report NUREG CR2053 (ORNL 6083) and the EPRI Manual "Good Bolting Practice" to determine if the requirements of F 8-1 are satisfied in these documents.	Organization: ASPE Committee Number: GPH Committee Contact: E. L. Williamson, Southern Service. Gary Mancini, ASPE NE Standard Org. Contact: R. C. Hudson	Number: None Title: Status: A new ASPE standard in this area may be developed. Will probably be combined with NE F 8-3. Committee was formed. John Bickford of Raymond Engineering, Middletown, Connecticut, is Chairman. EPRI is financing two reference manuals on large and small fasteners for good bolting practice. First of two manuals was issued by EPRI, 6/87. ASPE Committee has reviewed the EPRI manual and has determined that standards will not be developed (ASPE letter G. Mancini, 10/14/88).	1) 1984 2) 1984 3) 1981 4) 1982 5) 1984 6) 7)

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LEGEND for Chronology of Project (1) Identified for conversion, (2) DOE approval to submit to a NCS for consideration, (3) Information package prepared, (4) Submitted to NCS Organization, (5) NCS begun, (6) NCS published, (7) NE and NCS compared to determine degree of conversion and status of NE Standard

NE Standard Recommended for Conversion	NE Standard Status	National Consensus Standard Organization, Committee and Contact	National Consensus Standard Number, Title, and Status	Chronology of Project (Mo/Yr)
500600 F 8-6T Hoisting and Rigging of Critical Components and Related Equipment (11-85) NE Status: Published. Limited coordination standard. ORNL/ RM/H. L. Moseley, ORNL/WCC/C. A. Munro, WCC/BCC/T. B. Stickle, DG&G TSP/ J. W. Wagoner	Latest Action: Conversion process has not started. Information package completed by PAFO and forwarded to ASME for consideration as basis of new ASME consensus standard (PAFO-88-124, 9/7/88).	Organization: ASME Committee Number: Main Committee on Cranes for Nuclear Facilities Committee Contact: W. Berger, ASME NE Standard Org. Contact: H. L. Moseley, ORNL	Number: Title: Status: Standard will be considered for conversion during March 1989 meeting.	1) 1988 2) 1988 3) 1988 4) 1988 5) 6) 7)
500900 F 8-9T Design Basis for Fuel and Irradiation Experiment Resistance to Shock and Vibration in Truck Transport (2-75) NE Status: Published. SNO/ G. W. May TSP/ B. C. Mei	Latest Action: F 8-9T was used as the basis for development of N14.23.	Organization: INPP Committee Number: N-14 Committee Contact: J. W. Arendt, Chairman N14 R. Baelsig, Coordinator D. Ahlbeck, Chairman N14.23 NE Standard Org. Contact: R. C. Hudson, ORNL	Number: INPP N14.23 Title: Design Basis for Resistance to Shock and Vibration of Radioactive Material Packages Greater than One Ton in Truck Transport Status: Revised draft being balloted.	1) 1979 2) 1980 3) 1980 4) 1980 5) 1984 6) 7)
501100 F 8-11T Fuel Shipping Container Tie-down for Truck Transport (1-75) NE Status: Published. SNO/ C. G. Halsted TSP/ B. C. Mei	Latest Action	Organization: INPP Committee Number: N14.2 Subcommittee Committee Contact: J. W. Arendt, Chairman N14 J. Lee, Coordinator R. Towell, Chairman N14.2 NE Standard Org. Contact: R. C. Hudson, ORNL	Number: INPP N14.2 Title: Tie-downs for Transport of Fissile and Radioactive Material Containers Greater than One-Ton Truck Transport Status: Negative comments are being resolved (11/88).	1) 1980 2) 1981 3) 1981 4) 1981 5) 1984 6) 7)
501200 F 8-12 Fuel Shipping Container Tie-down for Rail Transport () NE Status: Not in work. SNO/ G. W. May TSP/ B. C. Mei	Latest Action: Development withheld. Requirements submitted to ANSI-INPP for consideration (11/88)	Organization: INPP Committee Number: N14 Committee Contact: J. W. Arendt, Chairman N14 R. Baelsig, Coordinator B. Glass, Chairman N14.25 NE Standard Org. Contact: R. C. Hudson	Number: ANSI INPP N14.25 Title: Tie-downs for Rail Transport of Fissile and Radioactive Material Status: New committee started.	1) 1980 2) 1981 3) 1981 4) 1981 5) 1985 6) 7)

CONVERSION OF WE STANDARDS TO NATIONAL CONSENSUS STANDARDS
JANUARY 1988

LEGEND for Chronology of Project: (1) Identified for conversion, (2) DOE approval to submit to a NCS for consideration, (3) Information package prepared, (4) Submitted to NCS Organization, (5) NCS begun, (6) NCS published, (7) WE and NCS compared to determine degree of conversion and status of WE Standard

WE Standard Recommended for Conversion	WE Standard Status	National Consensus Standard Organization, Committee, and Contact	National Consensus Standard Number, Title, and Status	Chronology of Project (Mo/Yr)
770400 M 12-4T Reflective Insulation (1-72) WE Status: Published. ORNL/ R. C. Hudson AND-PYTFOD/ D. M. Collado	Latest Action: ASTM was to use an existing standard (C 667) plus M 12-4T to produce a new ASTM standard. David Yarbrough has reviewed all standard information and does not know of any ASTM interest in developing a NCS in this area. The membership of the C 16.21 Committee does not have any interest in developing a standard based on M 12-4	Organization: ASTM Committee Number: ASTM C16.2100 Reflective Insulation Committee Contact: F. J. Powell, Chairman Andre Desjarais, Secretary D. Yarbrough, Chairman C16.21 WE Standard Org. Contact: David Yarbrough, ORNL	Number: C 335-84, C 1033-85 Title: Status: C 335-84, C 601-84, and C 1033-85 have been issued. C 601-84 will be withdrawn since the latest revision of C 335-84 covers all information now in C 601. A new draft standard was balloted that covers materials properties. The standard has been issued 1987. A copy will be obtained for review. George Barnett is the ASTM contact for the C 667 standard.	1) 1979 2) 1979 3) 1979 4) 1979 5) 1980 6) 7)
790100 M 16-1T Sodium Cover Gas - Purchase Specifications (7-72) WE Status: Published. MBC/ C. A. Strand AND-PYTFOD/ D. M. Collado	Latest Action: No conversion effort has begun. ASTM C26.02 is aware of this standard and at one time considered including this item in their standard being developed to replace M 13-1T for sodium	Organization: ASTM Committee Number: ASTM C26.02 Committee Contact: G. R. Kilp, ASTM WE Standard Org. Contact: R. C. Hudson, ORNL	Number: Title: Status: Submitted a copy of WE standard to ASTM C26.02 Committee for information. NIST-83-132, 9/27/83. Now ASTM draft has been completed and distributed for comment by C 26.02 (11/88)	1) 1979 2) 1984 3) 1984 4) 1984 5) 1987 6) 7)

CONVERSION OF NE STANDARDS TO NATIONAL CONSENSUS STANDARDS
JANUARY 1989

LEGEND for Chronology of Project (1) Identified for conversion, (2) DOE approval to submit to a MCS for consideration, (3) Information package prepared, (4) Submitted to MCS Organization, (5) MCS begun, (6) MCS published, (7) NE and MCS compared to determine degree of conversion and status of NE Standard

NE Standard Recommended for Conversion	NE Standard Status	National Consensus Standard Organization, Committee, and Contact	National Consensus Standard Number, Title, and Status	Chronology of Project (Mo/Yr)
810100 M 16-17 Gas-Phase Adsorbents for Trapping Radioactive Iodine and Iodine Compounds (10-81) NE Status Published: ORNL/ S D Clinton APD-FTTPOD/ D M Collado	Latest Action Parts of M 16-17 covered by ASTM standard except inorganic. Review and comparison has begun. Revision to M 16-17 will eventually be prepared to cover noncarbonaceous adsorbents. S D Clinton did comprehensive review of NE standard, ASTM standard, and E64G report (EGG-CS-7653)	Organization ASTM Committee Number ASTM D28.04 Subcommittee Gas Phase Committee Contact A Turb, Chairman NE Standard Org Contact R A Lorenz	Number ASTM D 3802, D 3803, D 3838, and D 4068 Title: Status ASTM D 3802-79, D 3803-79, D 3838-80, and D 4068-81 have been revised and reviewed against the NE standard. Drafts were balloted simultaneously by the D28.04 Committee and the D28 Committee. The revisions factors in the information in the E64G report. Negative comments received on D 3803. Negative comments addressed at the October 1988 meeting and will be reballoted. Revisions to the other 3 standards approved and move on to ASTM Society Ballot (11/88)	1) 1975 2) 1976 3) 1977 4) 1977 5) 1978 6) 1981 7)
880300 P 4-3T Metal-Sheathed, Mineral-Insulated Electrical Resistance Heater (3-75) NE Status Published ETEC/ Klee APD-FTTPOD/ D M Collado	Latest Action NE standard is being used in development of the new ASTM standard. Meeting of subcommittee was held 5-13-83. Proposal made to review the NE standard as an antecedent to preparing an ASTM equivalent standard	Organization ASTM Committee Number ASTM B-4 Committee Contact Steve Cole, Chairman Doug Brackman, Subcommittee Chairman NE Standard Org Contact R C Hudson, ORNL	Number Title: Standard Specification for Tubular Electrical Heaters Status Standard was assigned to ASTM Committee B-4 on Metallic Materials for Thermostats and for Electrical Resistance, Heating and Contacts. D. Brackman reports that there is no interest in developing a standard nor has anyone from DOE attended that could chair a Task Group (11/88).	1) 1970 2) 1979 3) 1981 4) 1982 5) 1982 6) 7)

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39. W. S. Brown, Technical Assistant, Nuclear Technology Division, Westinghouse Electric Corporation, P. O. Box 355, Pittsburgh, PA 15230

40. W. J. Brynda, Nuclear Standards Group Leader, Associated Universities, Inc., Brookhaven National Laboratory, Building 703, Nuclear Standards Group, Upton Long Island, NY 11973
41. M. A. Butler, Brookhaven Area Office, Department of Energy, Building 464, Upton Long Island, NY 11973
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49. A. Delapaz, Nuclear Effects Laboratory, U.S. Army Missile Range, White Sands, NM 88002
50. S. A. Dunlap, Standards Coordinator, GA Technologies, Inc., P. O. Box 85608, San Diego, CA 92138-2090
51. J. R. Longenecker, Deputy Assistant Secretary for UE, Department of Energy, NE-30 GTI, Washington, DC 20545
52. FERMI 2 Power Plant, Detroit Edison Company, NOC Infor. CTR. - 160 NOC, 6400 North Dixie Highway, Newport, MI 48166
53. Director, Oper. and Environ. Safety Div., CH, Department of Energy, 9800 South Cass Avenue, Argonne, IL 60439
54. P. J. Dirkmaat, Idaho Operations Office, Department of Energy, 785 DOE Place, Idaho Falls, ID 83402
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56. S. H. Evans, Semco Instruments, Inc., 11505 Vanowen Street, N. Hollywood, CA 91605
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61. E. O. Fromm, Quality Assurance Manager, Nuclear Services Group, Battelle Columbus Laboratories, 505 King Avenue, Columbus, OH 43201
62. R. R. Geoffrion, Associate Group Leader for Quality Assurance, MST - MS C755, Los Alamos National Laboratory, P. O. Box 1663, Los Alamos, NM 87545

63. R. P. Hearn, Argonne - West, Argonne National Laboratory, P. O. Box 2528, Idaho Falls, ID 83401
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