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ORNL/NSP--90/4

DE90 014619

**STATUS OF CONVERSION OF NE STANDARDS TO
NATIONAL CONSENSUS STANDARDS**

Performance Assurance Project Office

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Date Published - June 1990

**Prepared for the
Department of Energy, Nuclear Energy
AH 10 20 88 1**

**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 of 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 2-4?

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

The status of these 24 conversion activities is summarized in the following pages.

**CONVERSION OF NE STANDARDS TO NATIONAL CONSENSUS STANDARDS
JULY 1990**

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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)
10500 A 1-5T Purity Requirements for Operating Sodium Reactor Systems (6-81) NE Status: Published. WNC C. B. McCargar AMO-FFTFOD/ D. M. Collado	Latest Action: NE standard resubmitted to ASTM C26.02 Committee for consideration of conversion to an ASTM national consensus standard (PAPO-88-125, 9/9/88).	Organization: ASTM Committee Number: ASTM C 26.02 Subcommittee on Fuel and Fertile Materials Committee Contact: G. Kilp, Chairman ASTM C 26.02 NE Standard Org. Contact: H. L. Moseley, ORNL	Number: None Title: Status: C 26.02 has not taken any action. Will consider again and advise PAPO of intent (4/90).	1) 1981 2) 1981 3) 1988 4) 1988 5) 6) 7)
60100 C 1-1T Instrumentation and Control Equipment Grounding and Shielding Practices (1-83) NE Status: Published. WNC R. M. Boger AMO-FFTFOD/ D. M. Collado	Latest Action: A copy of IEEE 1050 has been sent to the cognizant engineer for review to determine conversion acceptability (6/90).	Organization: IEEE Power Engineering Society Committee Number: Committee Contact: H. Goransson, IEEE S. Nikolakakos M. V. Thaden NE Standard Org. Contact: C. A. Strand, WNC H. L. Moseley, ORNL	Number: IEEE 1050 Title: Guide for Instrumentation and Control Equipment Grounding and Shielding for Generating Stations Status: IEEE 1050-89 has been published and a copy has been received. Copies will be sent to the cognizant engineer and the standards coordinators to determine conversion acceptability (6/90).	1) 1980 2) 1980 3) 1982 4) 1982 5) 1984 6) 1990 7)
60200 C 1-2T Recommended Practice for High-Temperature Strain Measurement (10-85) NE Status: Published. Limited coordination standard. ORNL PM/H. L. Moseley WGC/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). ASTM E 1319-89 will be distributed to standards coordinators for review to determine if conversion is complete.	Organization: ASTM Committee Number: E-28.14 Committee Contact: G. Moran, Chairman of ASTM E 28.14 J. E. Smith, ORNL NE Standard Org. Contact: H. L. Moseley, ORNL	Number: ASTM E 1319-89 Title: High-Temperature Strain Measurement Status: ASTM approved and issued as E 1319-89.	1) 1985 2) 1985 3) 1985 4) 1985 5) 1986 6) 1989 7)
121700 C 7-17T Platinum Resistance Thermometer (4-75) NE Status: Published. WNC J. W. Cornell AMO-FFTFOD/ 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 FFTF 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: C. A. Strand, WNC	Number: E20 G-30 Title: Standard Specifications for Industrial Platinum Resistance Thermometers Status: Negative comments being resolved within E20 (4/90).	1) 1980 2) 1980 3) 1981 4) 1981 5) 1982 6) 7)

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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 EPD-OR/ L. K. Fletcher	Latest Action: Standard identified for conversion and has been submitted to ASTM for consideration (PAPO 89-92 9/6/89). Additional standard information is expected from ETEC by 7/1/90.	Organization: ASTM Committee Number: D 9.14 Committee Contact: S. Acres D 9.14 (203) NE Standard Org. Contact: J. K. Balkwill, ETEC	Number: ASTM Title: Status: Assigned to ASTM D 9.14. Subcommittee has under consideration.	1) 1985 2) 1986 3) 1989 4) 1989 5) 6) 7)
230100 C 18-1T Ceramic Electrical Insulators (8-74) NE Status: Published. ETEC W. E. Burns ARP-LMRB/ To be determined.	Latest Action: Standard identified for conversion and has been submitted to ASTM for consideration (PAPO 89-92 9/16/89). Additional standard background information expected from ETEC by 7/1/90.	Organization: ASTM Committee Number: D 9.94 Committee Contact: C. Ackerman NE Standard Org. Contact: J. K. Balkwill, ETEC	Number: ASTM Title: Status: Assigned to ASTM D9.94. Subcommittee is attempting to form a task group to consider.	1) 1985 2) 1986 3) 1989 4) 1989 5) 6) 7)
420400 E 12-4T Shielded Shipping Cask for Spent Reactor Fuel Elements (8-73) NE Status: Published. ORNL M. L. Moseley TSP/ B. C. Wei	Latest Action: Standard submitted to INMM N14 Committee for consideration in developing a national consensus standard.	Organization: INMM - Institute of Nuclear Materials Management Committee Number: INMM N14, Packaging and Transportation of Fissile and Radioactive Materials Committee Contact: J. W. Arendt, Chairman N14 R. Haelsig, Coordinator D. Dawson, Chairman N14.8 NE Standard Org. Contact: M. L. Moseley, ORNL	Number: ANSI/INMM N14.8 Title: Fabricating, Testing and Inspection of Shielded Shipping Casks for Irradiated Reactor Fuel Elements Status: Standard is to be coordinated with ASME/NUPAC 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 INMM 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)

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420500 E 12-5T Operating Manuals for Fuel Shipping Containers (1-75) NE Status: Published. SRO TSP/ B. C. Wei	Latest Action: After completion of five year review, comparison will be made between NE and NCS and next action determined. ANSI N14.29-1988 sent to standards coordinators for review (6/90).	Organization: INMM Committee Number: INMM N14, Packaging and Transportation of Fissile and Radioactive Material Committee Contact: J. W. Arendt, Chairman N14 J. W. Arendt, Coordinator R. T. Waite, Chairman N14.29 NE Standard Org. Contact: H. L. Moseley, ORNL	Number: ANSI/INMM, N14.29 (N679) Title: Guide for Writing Operating Manuals for Radioactive Materials Packaging Status: ANSI N14.29-1988 has been published (6/90).	1) 1976 2) 1981 3) 1981 4) 1981 5) 1980 6) 1990 7)
420700 E 12-7T Inspection and Preventive Maintenance of Fuel Shipping Containers (1-75) NE Status: Published. SRO TSP/ B. C. Wei	Latest Action: Standard submitted to N14 Committee for consideration in developing a national consensus standard.	Organization: INMM Committee Number: INMM N14, Packaging and Transportation of Fissile and Radioactive Materials Committee Contact: J. W. Arendt, Chairman N14 J. W. Arendt, Coordinator NE Standard Org. Contact: H. L. Moseley, ORNL	Number: ANSI/INMM 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)
430200 E 13-2T Ceramic Grade Uranium Dioxide (1-84) NE Status: WHC C. A. Strand AMO-FFTFOD/ D. M. Collado	Latest Action: NE Standard is being reviewed against the revision to the ASTM standard, to determine if conversion is complete. C. Strand is expediting internal review within WHC (6/90).	Organization: ASTM C26 Nuclear Fuel Cycle Committee Committee Number: ASTM C26.02 Subcommittee on Fuel and Fertile Materials Committee Contact: G. Kilp, Chairman ASTM C26.02 NE Standard Org. Contact: H. L. Moseley, 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 requirements of the NE E 13-2T standard.	1) 1986 2) 1986 3) 1986 4) 1987 5) 1987 6) 1988 7)

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520900 F 2-9T 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: Wil 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 is working to resolve comments. To IEEE Standards Board in 1990 (6/90).	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. WMC W. H. Caplinger QA/ to be determined.	Latest Action: Letter forwarded to ASME to consider conversion of NE standard to national consensus standard. New cognizant engineer has been assigned (6/90). Cognizant engineer will review to determine if F 2-10 needs are satisfied by NQA-3. If not, he will consider recommending to continue F 2-10.	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. Langston, SQAS	Number: ANSI/ASME NQA-1 (Revision of ANSI N45.2) Title: Quality Assurance Program Requirements for Nuclear Power Plants Status: NQA-3 has been published. A copy has been sent to PAPO.	1) 1985 2) 1985 3) 1985 4) 1985 5) 1986 6) 1986 7)
534100 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/H. L. Moseley, ORNL WGC/J. C. Elder, LANL RCC/B. D. Reinert, HEHF EH-OS/ P. Wambach	Latest Action: ASTM conversion effort is in progress. Material was forwarded to W. T. 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. T. Davis, Chairman, ASTM F21 John Ortiz, Task Group Chairman, LANL NE Standard Org. Contact: B. D. Reinert, LANL	Number: Title: Status: John Ortiz, LANL, and a Task Group, completed the test protocol for a Round Robin test program. Round Robin testing is on schedule. Tests have been completed by LANL and Livermore, and equipment is now at Donaldson Company (6/90).	1) 1981 2) 1982 3) 1982 4) 1986 5) 1987 6) 7)

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560200 F 6-2T Welding of Reactor Core Components and Test Assemblies (7-73) NE Status: WMC W. F. Brown AMO-FFTFOD/ 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: H. L. Moseley, 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)
570200 F 7-2T Packaging, Packing, and Marking of Components for Shipment and Storage (9-75) NE Status: Published. WMC W. M. Caplinger TSP/ J. W. Wagoner	Latest Action: Conversion process has not started. Information package completed by NSMC and forwarded to ASTM for consideration as basis of new ASTM consensus standard, NSTS-84-1, 1-16-84.	Organization: ASTM Committee Number: ASTM C26.02 Committee Contact: G. R. Kilp, ASTM NE Standard Org. Contact: H. L. Moseley, ORNL	Number: Title: Status: NE standard still being considered for conversion, will check during July 1989 meeting. No progress. Review to proceed with return to country of two interested parties.	1) 1979 2) 1983 3) 1984 4) 1984 5) 1984 6) 7)
570300 F 7-3T Marking of Components and Parts (6-75) NE Status: Published. WMC J. M. Nansen TSP/ J. W. Wagoner	Latest Action: Conversion process has not started. Information package completed by NSMC and forwarded to ASTM for consideration as basis of new ASTM consensus standard, NSTS-84-1, 1-16-84.	Organization: ASTM Committee Number: ASTM C26.02 Committee Contact: G. R. Kilp, ASTM NE Standard Org. Contact: H. L. Moseley, ORNL	Number: Title: Status: NE standard still being considered for conversion, will check during July 1989 meeting. No progress. Review to proceed with return to country of two interested parties.	1) 1979 2) 1983 3) 1984 4) 1984 5) 1984 6) 7)

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580600 F 8-6T Hoisting and Rigging of Critical Components and Related Equipment (11-85) NE Status: Published. Limited coordination standard. ORNL PM/H. L. Moseley TSP/ J. W. Wagoner	Latest Action: Conversion process has not started. Information package completed by PAPO and forwarded to ASME for consideration as basis of new ASME consensus standard (PAPO-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: ASME reported that certain portions of the standard will be addressed in the future (ASME letter dated 5/17/89). Pending ASME review.	1) 1988 2) 1988 3) 1988 4) 1988 5) 6) 7)
580900 F 8-9T Design Basis for Fuel and Irradiations Experiment Resistance to Shock and Vibration in Truck Transport (2-75) NE Status: Published. SRO TSP/ B. C. Wei	Latest Action: F 8-9T was used as the basis for development of N14.23.	Organization: INMM Committee Number: N-14 Committee Contact: J. W. Arendt, Chairman N14 P. Haelsig, Coordinator D. Ahlbeck, Chairman N14.23 NE Standard Org. Contact: H. L. Moseley, ORNL	Number: INMM 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)
581100 F 8-11T Fuel Shipping Container Tiedown for Truck Transport (1-75) NE Status: Published. SRO C. G. Halsted TSP/ B. C. Wei	Latest Action:	Organization: INMM Committee Number: N14.2 Subcommittee Committee Contact: J. W. Arendt, Chairman N14 J. Lee, Coordinator R. Towell, Chairman N14.2 NE Standard Org. Contact: H. L. Moseley, ORNL	Number: INMM N14.2 Title: Tiedowns 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)
581200 F 8-12 Fuel Shipping Container Tiedown for Rail Transport () NE Status: Development withheld. SRO TSP/ B. C. Wei	Latest Action: Development withheld. Requirements submitted to ANSI-INMM for consideration (11/88).	Organization: INMM Committee Number: N14 Committee Contact: J. W. Arendt, Chairman N14 R. Haelsig, Coordinator B. Glass, Chairman N14.25 NE Standard Org. Contact: H. L. Moseley, ORNL	Number: ANSI INMM N14.25 Title: Tiedowns for Rail Transport of Fissile and Radioactive Material Status: New committee started.	1) 1980 2) 1981 3) 1981 4) 1981 5) 1985 6) 7)

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<p>770400 M 12-4T Reflective Insulation (1-72)</p> <p>NE Status: Published. ORNL H. L. Moseley AMO-FFTFOD/ D. M. Collado</p>	<p>Latest Action:</p> <p>Pending issue of C 667.</p>	<p>Organization: ASTM Committee Number: ASTM C16.2100 Reflective Insulation Committee Contact: F. J. Powell, Chairman Andre Desjardis, Secretary D. Yarbrough, Chairman C16.21 George Barnett, ASTM C 667 NE Standard Org. Contact: David Yarbrough, ORNL</p>	<p>Number: C 335-84, C 1033-85 Title:</p> <p>Status: C 335-84, C 691-84, and C 1033-85 have been issued. C 691-84 will be withdrawn since the latest revision of C 335-84 covers all information now in C 691. A new draft of C 667 that covers material properties was accepted by C 16.21. The C 667-89 draft received negative votes on the C 16 committee ballot. Negatives are being resolved.</p>	<p>1) 1979 2) 1979 3) 1979 4) 1979 5) 1980 6) 7)</p>
<p>790100 M 14-1T Sodium Cover Gas - Purchase Specifications (7-72)</p> <p>NE Status: Published. WNC C. A. Strand AMO-FFTFOD/ D. M. Collado</p>	<p>Latest Action:</p> <p>Published ASTM C 1143 will be sent to C. Strand to determine degree of conversion.</p>	<p>Organization: ASTM Committee Number: ASTM C26.02 Committee Contact: G. R. Kilp, ASTM NE Standard Org. Contact: H. L. Moseley, ORNL</p>	<p>Number: ASTM C 1143 Title:</p> <p>Status: New ASTM standard has been published and is being issued.</p>	<p>1) 1979 2) 1984 3) 1984 4) 1984 5) 1987 6) 1989 7)</p>
<p>810100 M 16-1T Gas-Phase Adsorbents for Trapping Radioactive Iodine and Iodine Compounds (10-81)</p> <p>NE Status: Published. ORNL S. D. Clinton AMO-FFTFOD/ D. M. Collado</p>	<p>Latest Action:</p> <p>Parts of M 16-1T covered by ASTM standard except inorganic. Review and comparison has begun. Revision to M 16-1T will eventually be prepared to cover noncarbonaceous adsorbents. S. D. Clinton did comprehensive review of NE standard, ASTM standard, and EG&G report (EGG-CS-7653).</p>	<p>Organization: ASTM Committee Number: ASTM D28.04 Subcommittee Gas Phase Committee Contact: A. Turk, Chairman NE Standard Org. Contact: R. A. Lorenz</p>	<p>Number: ASTM D 3802, D 3803, D 3838, and D 4069 Title:</p> <p>Status: ASTM D 3802-79, D 3803-86, D 3838-80, and D 4069-86 have been revised and reviewed against the NE standard. Drafts were balloted simultaneously by the D28.04 Committee and the D28 Committee. The revisions factor in the information in the EG&G report. Negative comments received on D 3803. Negative comments addressed at the October 1988 meeting and reballoted. Revisions to D 3803-86 and D 4069-86 have been issued (6/90).</p>	<p>1) 1975 2) 1976 3) 1977 4) 1977 5) 1978 6) 1981 7)</p>

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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)
890300 P 4-3T Metal-Sheathed, Mineral-Insulated Electrical Resistance Heater (3-75) NF Status: Published. EIEC Klea AMO-FFTFOD/ 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: H. L. Moseley, 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) 1979 2) 1979 3) 1981 4) 1982 5) 1982 6) 7)