

**Volume 12.01, August 2007**  
**Nuclear Energy (I)**

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- [C696-99\(2005\) Standard Test Methods for Chemical, Mass Spectrometric, and Spectrochemical Analysis of Nuclear-Grade Uranium Dioxide Powders and Pellets - \(View Full Text\)](#)
- [C697-04 Standard Test Methods for Chemical, Mass Spectrometric, and Spectrochemical Analysis of Nuclear-Grade Plutonium Dioxide Powders and Pellets - \(View Full Text\)](#)
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- [C750-03 Standard Specification for Nuclear-Grade Boron Carbide Powder - \(View Full Text\)](#)
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- [C752-03 Standard Specification for Nuclear-Grade Silver-Indium-Cadmium Alloy - \(View Full Text\)](#)
- [C753-04 Standard Specification for Nuclear-Grade, Sinterable Uranium Dioxide Powder - \(View Full Text\)](#)
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- [C759-04 Standard Test Methods for Chemical, Mass Spectrometric, Spectrochemical, Nuclear, and Radiochemical Analysis of Nuclear-Grade Plutonium Nitrate Solutions - \(View Full Text\)](#)
- [C760-90\(2002\) Standard Test Methods for Chemical and Spectrochemical Analysis of Nuclear-Grade Silver-Indium-Cadmium Alloys - \(View Full Text\)](#)
- [C761-04e1 Standard Test Methods for Chemical, Mass Spectrometric, Spectrochemical, Nuclear, and Radiochemical Analysis of Uranium Hexafluoride - \(View Full Text\)](#)
- [C776-06 Standard Specification for Sintered Uranium Dioxide Pellets - \(View Full Text\)](#)
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- [C791-04 Standard Test Methods for Chemical, Mass Spectrometric, and Spectrochemical Analysis of Nuclear-Grade Boron Carbide - \(View Full Text\)](#)
- [C799-99\(2005\) Standard Test Methods for Chemical, Mass Spectrometric, Spectrochemical, Nuclear, and Radiochemical Analysis of Nuclear-Grade Uranyl Nitrate Solutions - \(View Full Text\)](#)
- [C809-94\(2000\) Standard Test Methods for Chemical, Mass Spectrometric, and Spectrochemical Analysis of Nuclear-Grade Aluminum Oxide and Aluminum Oxide-Boron Carbide Composite Pellets - \(View Full Text\)](#)

[C833-01 Standard Specification for Sintered \(Uranium-Plutonium\) Dioxide Pellets - \(View Full Text\)](#)

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[C996-04e1 Standard Specification for Uranium Hexafluoride Enriched to Less Than 5 % <sup>235</sup>U - \(View Full Text\)](#)

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[C1062-00 Standard Guide for Design, Fabrication, and Installation of Nuclear Fuel Dissolution Facilities - \(View Full Text\)](#)

[C1066-97\(2004\) Standard Specification for Nuclear Grade Zirconium Oxide Pellets - \(View Full Text\)](#)

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[C1112-99\(2005\) Standard Guide for Application of Radiation Monitors to the Control and Physical Security of Special Nuclear Material - \(View Full Text\)](#)  
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[C1168-01 Standard Practice for Preparation and Dissolution of Plutonium Materials for Analysis - \(View Full Text\)](#)  
[C1169-97\(2003\) Standard Guide for Laboratory Evaluation of Automatic Pedestrian SNM Monitor Performance - \(View Full Text\)](#)  
[C1174-04 Standard Practice for Prediction of the Long-Term Behavior of Materials, Including Waste Forms, Used in Engineered Barrier Systems \(EBS\) for Geological Disposal of High-Level Radioactive Waste - \(View Full Text\)](#)  
[C1187-91\(1999\) Standard Guide for Establishing Surveillance Test Program for Boron-Based Neutron Absorbing Material Systems for Use in Nuclear Spent Fuel Storage Racks - \(View Full Text\)](#)  
[C1188-04 Standard Guide for Establishing a Quality Assurance Program for Uranium Conversion Facilities1 - \(View Full Text\)](#)  
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[C1207-03 Standard Test Method for Nondestructive Assay of Plutonium in Scrap and Waste by Passive Neutron Coincidence Counting - \(View Full Text\)](#)

[C1210-06 Standard Guide for Establishing a Measurement System Quality Control Program for Analytical Chemistry Laboratories Within the Nuclear Industry - \(View Full Text\)](#)

[C1215-92\(2006\) Standard Guide for Preparing and Interpreting Precision and Bias Statements in Test Method Standards Used in the Nuclear Industry - \(View Full Text\)](#)

[C1217-00\(2006\) Standard Guide for Design of Equipment for Processing Nuclear and Radioactive Materials - \(View Full Text\)](#)

[C1219-05 Standard Test Methods for Arsenic in Uranium Hexafluoride - \(View Full Text\)](#)

[C1220-98\(2004\) Standard Test Method for Static Leaching of Monolithic Waste Forms for Disposal of Radioactive Waste - \(View Full Text\)](#)

[C1221-92\(2004\) Standard Test Method for Nondestructive Analysis of Special Nuclear Materials in Homogeneous Solutions by Gamma-Ray Spectrometry - \(View Full Text\)](#)

[C1233-03 Standard Practice for Determining Equivalent Boron Contents of Nuclear Materials - \(View Full Text\)](#)

[C1234-98\(2004\) Standard Practice for Preparation of Oils and Oily Waste Samples by High-Pressure, High-Temperature Digestion for Trace Element Determinations - \(View Full Text\)](#)

[C1236-99\(2005\) Standard Guide for In-Plant Performance Evaluation of Automatic Vehicle SNM Monitors - \(View Full Text\)](#)

[C1237-99\(2005\) Standard Guide to In-Plant Performance Evaluation of Hand-Held SNM Monitors - \(View Full Text\)](#)

[C1238-97\(2003\) Standard Guide for Installation of Walk-Through Metal Detectors - \(View Full Text\)](#)

[C1254-99\(2005\) Standard Test Method for Determination of Uranium in Mineral Acids by X-Ray Fluorescence - \(View Full Text\)](#)

[C1255-93\(2005\) Standard Test Method for Analysis of Uranium and Thorium in Soils by Energy Dispersive X-Ray Fluorescence Spectroscopy - \(View Full Text\)](#)

[C1267-06 Standard Test Method for Uranium by Iron \(II\) Reduction in Phosphoric Acid Followed by Chromium \(VI\) Titration in the Presence of Vanadium - \(View Full Text\)](#)

[C1268-94\(2000\) Standard Test Method for Quantitative Determination of Americium 241 in Plutonium by Gamma-Ray Spectrometry - \(View Full Text\)](#)

[C1269-97\(2003\) Standard Practice for Adjusting the Operational Sensitivity Setting of In-Plant Walk-Through Metal Detectors - \(View Full Text\)](#)

[C1270-97\(2003\) Standard Practice for Detection Sensitivity Mapping of In-Plant Walk-Through Metal Detectors - \(View Full Text\)](#)

[C1284-00\(2005\) Standard Practice for Electrodeposition of the Actinides for Alpha Spectrometry - \(View Full Text\)](#)

[C1285-02 Standard Test Methods for Determining Chemical Durability of Nuclear, Hazardous, and Mixed Waste Glasses and Multiphase Glass Ceramics: The Product Consistency Test \(PCT\) - \(View Full Text\)](#)

[C1287-03 Standard Test Method for Determination of Impurities in Uranium Dioxide by Inductively Coupled Plasma Mass Spectrometry - \(View Full Text\)](#)

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[C1307-02 Standard Test Method for Plutonium Assay by Plutonium \(III\) Diode Array Spectrophotometry - \(View Full Text\)](#)

[C1308-95\(2001\) Standard Test Method for Accelerated Leach Test for Diffusive Releases from Solidified Waste and a Computer Program to Model Diffusive, Fractional Leaching from Cylindrical Waste Forms - \(View Full Text\)](#)

[C1309-97\(2003\) Standard Practice for Performance Evaluation of In-Plant Walk-Through Metal Detectors - \(View Full Text\)](#)

[C1310-01\(2007\) Standard Test Method for Determining Radionuclides in Soils by Inductively Coupled Plasma-Mass Spectrometry Using Flow Injection Preconcentration - \(View Full Text\)](#)

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[C1334-05e1 Standard Specification for Uranium Oxides with a <sup>235</sup>U Content of Less Than 5 % for Dissolution Prior to Conversion to Nuclear-Grade Uranium Dioxide - \(View Full Text\)](#)

[C1343-96\(2007\) Standard Test Method for Determination of Low Concentrations of Uranium in Oils and Organic Liquids by X-ray Fluorescence - \(View Full Text\)](#)

[C1344-97\(2003\) Standard Test Method for Isotopic Analysis of Uranium Hexafluoride by Single-Standard Gas Source Mass Spectrometer Method - \(View Full Text\)](#)

[C1345-96\(2001\) Standard Test Method for Analysis of Total and Isotopic Uranium and Total Thorium in Soils by Inductively Coupled Plasma-Mass Spectrometry - \(View Full Text\)](#)

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[C1348-01 Standard Specification for Blended Uranium Oxides with a <sup>235</sup>U Content of Less Than 5 % for Direct Hydrogen Reduction to Nuclear Grade Uranium Dioxide - \(View Full Text\)](#)

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[C1380-04 Standard Test Method for Determination of Uranium Content and Isotopic Composition by Isotope Dilution Mass Spectrometry - \(View Full Text\)](#)

[C1387-03 Standard Guide for the Determination of Technetium-99 in Soil - \(View Full Text\)](#)

[C1402-04 Standard Guide for High-Resolution Gamma-Ray Spectrometry of Soil Samples - \(View Full Text\)](#)

[C1408-98\(2004\) Standard Test Method for Carbon \(Total\) in Uranium Oxide Powders and Pellets By Direct Combustion-Infrared Detection Method - \(View Full Text\)](#)

[C1411-01 Standard Practice for the Ion Exchange Separation of Uranium and Plutonium Prior to Isotopic Analysis - \(View Full Text\)](#)

[C1413-05 Standard Test Method for Isotopic Analysis of Hydrolyzed Uranium Hexafluoride and Uranyl Nitrate Solutions by Thermal Ionization Mass Spectrometry - \(View Full Text\)](#)

[C1414-01\(2007\) Standard Practice for The Separation of Americium from Plutonium by Ion Exchange - \(View Full Text\)](#)

[C1415-01a\(2007\) Standard Test Method for <sup>238</sup>Pu Isotopic Abundance by Alpha Spectrometry - \(View Full Text\)](#)

[C1416-04 Standard Test Method for Uranium Analysis in Natural and Waste Water by X-Ray Fluorescence - \(View Full Text\)](#)

[C1428-99\(2005\) Standard Test Method for Isotopic Analysis of Uranium Hexafluoride by Single-Standard Gas Source Multiple Collector Mass Spectrometer Method - \(View Full Text\)](#)

[C1429-99\(2004\) Standard Test Method for Isotopic Analysis of Uranium Hexafluoride by Double-Standard Multi-Collector Gas Mass Spectrometer - \(View Full Text\)](#)

[C1430-07 Standard Test Method for Determination of Uranium, Oxygen to Uranium \(O/U\), and Oxygen to Metal \(O/M\) in Sintered Uranium Dioxide and Gadolinia-Uranium Dioxide Pellets by Atmospheric Equilibration - \(View Full Text\)](#)

[C1431-99\(2005\) Standard Guide for Corrosion Testing of Aluminum-Based Spent Nuclear Fuel in Support of Repository Disposal - \(View Full Text\)](#)

[C1432-03 Standard Test Method for Determination of Impurities in Plutonium: Acid Dissolution, Ion Exchange Matrix Separation, and Inductively Coupled Plasma-Atomic Emission Spectroscopic \(ICP/AES\) Analysis - \(View Full Text\)](#)

[C1441-04 Standard Test Method for the Analysis of Refrigerant 114, Plus Other Carbon-Containing and Fluorine-Containing Compounds in Uranium Hexafluoride via Fourier-Transform Infrared \(FTIR\) Spectroscopy - \(View Full Text\)](#)

[C1453-00\(2006\) Standard Test Method for the Determination of Uranium by Ignition and the Oxygen to Uranium \(O/U\) Atomic Ratio of Nuclear Grade Uranium Dioxide Powders and Pellets - \(View Full Text\)](#)

[C1454-07 Standard Guide for Pyrophoricity/Combustibility Testing in Support of Pyrophoricity Analyses of Metallic Uranium Spent Nuclear Fuel - \(View Full Text\)](#)

[C1455-00 Standard Guide for Nondestructive Assay of Special Nuclear Material Holdup Using Gamma-Ray Spectroscopic Methods - \(View Full Text\)](#)

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[C1457-00\(2005\) Standard Test Method for the Determination of Total Hydrogen Content of Uranium Oxide Powders and Pellets by Carrier Gas Extraction - \(View Full Text\)](#)

[C1458-00 Standard Test Method for Nondestructive Assay of Plutonium, Tritium and <sup>241</sup>Am by Calorimetric Assay - \(View Full Text\)](#)

[C1462-00\(2005\) Standard Specification for Uranium Metal Enriched to More than 15% and Less Than 20% <sup>235</sup>U - \(View Full Text\)](#)

[C1463-00\(2007\) Standard Practices for Dissolving Glass Containing Radioactive and Mixed Waste for Chemical and Radiochemical Analysis - \(View Full Text\)](#)

[C1473-05 Standard Test Method for Radiochemical Determination of Uranium Isotopes in Urine by Alpha Spectrometry - \(View Full Text\)](#)

[C1474-00\(2006\)e1 Standard Test Method for Analysis of Isotopic Composition of Uranium in Nuclear-Grade Fuel Material by Quadrupole Inductively Coupled Plasma-Mass Spectrometry - \(View Full Text\)](#)

[C1475-05 Standard Guide for Determination of Neptunium-237 in Soil - \(View Full Text\)](#)

[C1476-06 Standard Test Method for Analysis of Urin for Technetium-99 by Inductively Coupled Plasma-Mass Spectrometry - \(View Full Text\)](#)

[C1477-06 Standard Test Method for Isotopic Abundance Analysis of Uranium Hexafluoride and Uranyl Nitrate Solutions by Multi-Collector, Inductively Coupled Plasma-Mass Spectrometry - \(View Full Text\)](#)

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[C1493-01 Standard Test Method for Non-Destructive Assay of Nuclear Material in](#)

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[C1500-02 Standard Test Method for Nondestructive Assay of Plutonium by Passive Neutron Multiplicity Counting - \(View Full Text\)](#)

[C1502-01 Standard Test Method for Determination of Total Chlorine and Fluorine in Uranium Dioxide and Gadolinium Oxide - \(View Full Text\)](#)

[C1507-07 Standard Test Method for Radiochemical Determination of Strontium-90 in Soil - \(View Full Text\)](#)

[C1508-01\(2006\) Standard Test Method for Determination of Bromine and Chlorine in UF<sub>6</sub> and Uranyl Nitrate by X-Ray Fluorescence \(XRF\) Spectroscopy - \(View Full Text\)](#)

[C1514-02 Standard Test Method for Measurement of <sup>235</sup>U Fraction using the Enrichment Meter Principle - \(View Full Text\)](#)

[C1517-02 Standard Test Method for Determination of Metallic Impurities in Uranium Metal or Compounds by DC-Arc Emission Spectroscopy - \(View Full Text\)](#)

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[C1539-02 Standard Test Method for Determination of Technetium-99 in Uranium Hexafluoride by Liquid Scintillation Counting - \(View Full Text\)](#)

[C1554-03 Standard Guide for Materials Handling Equipment for Hot Cells - \(View Full Text\)](#)

[C1561-03 Standard Guide for Determination of Plutonium and Neptunium in Uranium Hexafluoride by Alpha Spectrometry - \(View Full Text\)](#)

[C1562-03e2 Standard Guide for Evaluation of Materials Used in Extended Service of Interim Spent Nuclear Fuel Dry Storage Systems - \(View Full Text\)](#)

[C1571-03 Standard Guide for Characterization of Radioactive and/or Hazardous Wastes for Thermal Treatment - \(View Full Text\)](#)

[C1572-04 Standard Guide for Dry Lead Glass and Oil-Filled Lead Glass Radiation Shielding Window Components for Remotely Operated Facilities - \(View Full Text\)](#)

[C1590-04 Standard Practice for Alternate Actinide Calibration for Inductively Coupled Plasma-Mass Spectrometry - \(View Full Text\)](#)

[C1592-04 Standard Guide for Nondestructive Assay Measurements - \(View Full Text\)](#)

[C1614-05 Standard Practice for the Determination of <sup>237</sup>Np, <sup>232</sup>Th, <sup>235</sup>U and <sup>238</sup>U in Urine by Inductively Coupled Plasma-Mass Spectrometry \(ICP-MS\) and Gamma Ray Spectrometry. - \(View Full Text\)](#)

[C1615-05 Standard Guide for Mechanical Drive Systems for Remote Operation in Hot Cell Facilities - \(View Full Text\)](#)

[C1625-05 Standard Test Method for Uranium and Plutonium Concentrations and Isotopic Abundances by Thermal Ionization Mass Spectrometry - \(View Full Text\)](#)

[C1636-06a Standard Guide for the Determination of Uranium-232 in Uranium Hexafluoride - \(View Full Text\)](#)

[C1647-06 Standard Practice for Removal of Uranium or Plutonium, or both, for Impurity Assay in Uranium or Plutonium Materials - \(View Full Text\)](#)

[C1661-07 Standard Guide for Viewing Systems for Remotely Operated Facilities - \(View Full Text\)](#)

[C1662-07 Standard Practice for Measurement of the Glass Dissolution Rate Using the Single-Pass Flow-Through Test Method - \(View Full Text\)](#)

[C1672-07 Standard Test Method for Determination of Uranium or Plutonium Isotopic Composition or Concentration by the Total Evaporation Method Using a Thermal Ionization Mass Spectrometer - \(View Full Text\)](#)

[E321-96\(2005\) Standard Test Method for Atom Percent Fission in Uranium and Plutonium Fuel \(Neodymium-148 Method\) - \(View Full Text\)](#)

[SI Quick Reference Guide: International System of Units \(SI\) - \*The Modern Metric System\* - \(View Full Text\)](#)

### **Withdrawn Standards**

C784 Standard Specification for Nuclear-Grade Aluminum Oxide-Boron Carbide Composite Pellets (Withdrawn 2002) No Replacement  
C852 Standard Guide for Design Criteria for Plutonium Gloveboxes (Withdrawn 2006) No Replacement  
C859 Standard Terminology Relating to Nuclear Materials (Withdrawn 2005) No Replacement  
C1235 Standard Test Method for Plutonium by Titanium(III)/Cerium(IV) Titration (Withdrawn 2005) No Replacement  
E267 Standard Test Method for Uranium and Plutonium Concentrations and Isotopic Abundances (Withdrawn 2006) No Replacement