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| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | | 1. CONTRACT ID CODE | PAGE OF PAGES 1 2 |
| 2. AMENDMENT/MODIFICATION NO. M221 | 3. EFFECTIVE DATE See Block 16C | 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable) | |
| 6. ISSUED BY Golden Field Office U.S. Department of Energy 1617 Cole Boulevard Golden, CO 80401 | CODE | 7. ADMINISTERED BY (If other than Item 6) Golden Field Office U.S. Department of Energy 1617 Cole Boulevard Golden, CO 80401 | CODE | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Midwest Research Institute 425 Volker Boulevard Kansas City, MO 64110 | | <input type="checkbox"/> | 9A. AMENDMENT OF SOLICITATION NO. | |
| | | <input type="checkbox"/> | 9B. DATED (SEE ITEM 11) | |
| | | <input checked="" type="checkbox"/> | 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC36-99GO10337 | |
| | | | 10B. DATED (SEE ITEM 13) 11/09/1998 | |
| CODE | FACILITY CODE | | | |

11. THIS ITEM APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods:
 (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

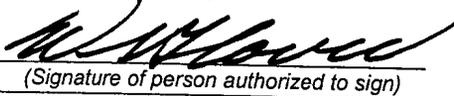
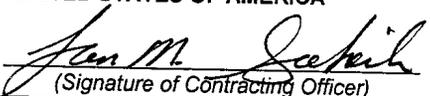
| | |
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| <input type="checkbox"/> | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) |
| <input type="checkbox"/> | THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A. |
| <input type="checkbox"/> | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| <input type="checkbox"/> | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| <input checked="" type="checkbox"/> | D. OTHER (Specify type of modification and authority) These administrative changes are made in accordance with, H-19 "Application of DOE Contractor Requirements Documents" of this contract. |

E. IMPORTANT: Contractor is not, is required to sign this document and return two Copies the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

See Page 2 and the Attached Part III, Section J-List of Documents, Exhibits and Other Attachments, Attachment 4 Applicable Laws and Regulations (List A) and Attachment 5, Operating and Administrative Requirements (List B).

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

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| 15A. NAME AND TITLE OF SIGNER (Type or print) W.S. Glover Deputy Director and Chief Operating Officer | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Jean M. Siekerka Contracting Officer | |
| 15B. CONTRACT/OFFEROR | 15C. DATE SIGNED 9/27/08 | 16B. UNITED STATES OF AMERICA | 16C. DATE SIGNED 5/28/05 |
| BY  (Signature of person authorized to sign) | | BY  (Signature of Contracting Officer) | |

This Modification incorporates the following significant changes to contract DE-AC36-99GO10337:

- I. Part III, Section J – LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS, ATTACHMENT 4, APPLICABLE LAWS AND REGULATIONS (LIST A) AND ATTACHMENT 5, OPERATING AND ADMINISTRATIVE REQUIREMENTS (LIST B) are deleted and replaced with the following:

SECTION J – LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS;

ATTACHMENT 4, APPLICABLE LAWS AND REGULATIONS (LIST A)

ATTACHMENT 5, OPERATING AND ADMINISTRATIVE REQUIREMENTS (LIST B).

PART III

SECTION J – LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

**ATTACHMENT 4
 APPLICABLE LAWS AND REGULATIONS (LIST A)**

**Necessary and Sufficient Environmental,
 Safety and Health Standards
 Revised: 05/21/2008**

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| CODE OF FEDERAL REGULATIONS (CFR) |
| 10 CFR 8.4 - Interpretation by the General Counsel: AEC Jurisdiction |
| 10 CFR 835 - Occupational Radiation Protection (Except Sections 101 (c), ALARA Plans and Measures, 402 (b), DOE Laboratory Accreditation Program for Personal Dosimetry, 901, General Employee Training, and 902, Radiological Workers Training) |
| 10 CFR 851 – Worker Safety and Health Program |
| 10 CFR 1021 - DOE NEPA Implementing Regulations, Subtitle B - DOE Decision making |
| 10 CFR 1021 - DOE NEPA Implementing Regulations, Subtitle D - Typical Classes of Actions (Including ref. Appendices A-D) |
| OSH Act of 1970, Section 5 (a)(1) - General Duty Clause |
| 29 CFR 1904 - OSHA Recordkeeping and Reporting Occupational Injuries and Illness |
| 29 CFR 1910 - Occupational Safety and Health Standards for General Industry |
| 29 CFR 1926 - Occupational Safety and Health Standards for the Construction Industry |
| 33 CFR 320 - General Regulatory Policies |
| 33 CFR 323 - Permits for Discharges of Dredged or Fill Material into Waters of the United States |
| 33 CFR 325 - Processing of Department of the Army Permits |
| 33 CFR 328 - Definition of Waters of the United States |
| 33 CFR 330 - Nationwide Permits |
| 36 CFR 63 - Determination of Eligibility for Inclusion in the National Register of Historic Places |
| 36 CFR 65 - National Historic Landmarks Program |
| 36 CFR 78 - Waiver of Federal agency responsibilities under section 110 of the National Historic Preservation Act |
| 36 CFR 79 - Curation of Federally-Owned and Administered Archaeological Collections. |
| 36 CFR 800 - Protection of Historic and Cultural Properties |
| 40 CFR 50 - National Primary and Secondary Ambient Air Quality Standards |
| 40 CFR 61- National Emission Standards for Hazardous Air Pollutants |
| 40 CFR 66 - Assessment and Collection of Noncompliance Penalties by EPA |
| 40 CFR 79 - Registration of Fuels and Fuel Additives |
| 40 CFR 82 - Protection of Stratospheric Ozone |
| 40 CFR 88 - Clean-Fuel Vehicles |

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| 40 CFR 110 - Discharge of Oil |
| 40 CFR 112 - Oil Pollution Prevention |
| 40 CFR 113 - Liability Limits for Small Onshore Storage Facilities |
| 40 CFR 116 - Designation of Hazardous Substances |
| 40 CFR 117 - Determination of Reportable Quantities for Hazardous Substances |
| 40 CFR 122 - EPA Administered Permit Programs: The National Pollutant Discharge Elimination System (NPDES) |
| 40 CFR 131 - Water Quality Standards |
| 40 CFR 141 - National Primary Drinking Water Regulations |
| 40 CFR 142 - National Primary Drinking Water Regulations Implementation |
| 40 CFR 166 - Exemption of Federal and State Agencies for use of Pesticides under Emergency Conditions |
| 40 CFR 171 - Certification of Pesticide Applicators |
| 40 CFR 260-270 - Resource Conservation and Recovery Act (RCRA) |
| 40 CFR 261 - Identification and Listing of Hazardous Waste |
| 40 CFR 262 - Standards Applicable to Generators of Hazardous Waste |
| 40 CFR 268 - Land Disposal Restrictions |
| 40 CFR 273 - Standards for Universal Waste Management |
| 40 CFR 279 - Standards for the Management of Used Oil |
| 40 CFR 302 - Designation, Reportable Quantities, and Notification (CERCLA) |
| 40 CFR 355 - Emergency Planning and Notification (CERCLA) |
| 40 CFR 370 - Hazardous Chemical Reporting: Community Right -To-Know |
| 40 CFR 401 - General Provisions - Effluent Guideline and Standards |
| 40 CFR 403 - General Pretreatment Regulations for Existing and New Sources of Pollution |
| 40 CFR 763 Subpart G - Asbestos Abatement Projects |
| 49 CFR 107-199 - Transportation - Hazardous Materials Regulations |
| 49 CFR 382-399 - Transportation - Federal Motor Carrier Safety Regulations |
| 50 CFR 17 - Endangered and Threatened Wildlife and Plants |
| 50 CFR 402 - Interagency Cooperation - Endangered Species Act of 1973 |
| 50 CFR 424 - Listing Endangered and Threatened Species and Designating Critical Habitat |
| 50 CFR 450 - General Provisions - Endangered Species Exemption Process |
| 50 CFR 451 - Application Process |
| UNITED STATES CODE (USC) |
| 7 USC 136 et seq. - Environmental Pesticide Control Act |
| 7 USC 136 et seq. - Federal Insecticide, Fungicide, and Rodenticide Act |
| 7 USC 7701 Plant Protection Act 2000 (as amended by the Noxious Weed Control and Eradication Act 2004) |
| 15 USC 2601 et seq.- Toxic Substances Control Act, Title II (Asbestos Hazard Emergency Response) |
| 16 USC 431 et seq. - Antiquities Act of 1906 |
| 16 USC 470 et seq. - Archaeological Resources Protection Act of 1979 (ARPA) |
| 16 USC 470 et seq. - National Historic Preservation Act of 1966 (NHPA) |

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| 16 USC 661 et seq. - Fish and Wildlife Coordination Act |
| 16 USC 668 et seq. - Bald and Golden Eagle Protection Act |
| 16 USC 703 et seq. - Migratory Bird Treaty Act |
| 16 USC 1531 et seq. - Endangered Species Act of 1973 |
| 33 USC 1251, et seq. - Clean Water Act |
| 33 USC 1321 - Oil and Hazardous Substances Liability (Clean Water Act, Section 311) |
| 42 USC Sec. 300f et seq. - Safe Drinking Water Act, and 42 USC 201 - Safe Drinking Water Act Amendments of 1996 |
| 42 USC 6901 et seq. - Resource Conservation and Recovery Act (RCRA) |
| 42 USC 7401 et seq. - Clean Air Act & Amendments |
| 42 USC 9602 - CERCLA, Title I, Section 102 - Reportable Quantities and Additional Designations |
| 42 USC 9603 - CERCLA, Title I, Section 103 - Notices, Penalties |
| 42 USC 11000-11050 - Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) |
| 42 USC 13101-13109 - Pollution Prevention Act of 1990 |
| EXECUTIVE ORDER (EO) |
| EO 11593 - Protection and Enhancement of Cultural Environment 1971 |
| EO 11738 - Providing for Administration of the Clean Air Act and the Federal Water Pollution Control Act with Respect to Federal Contracts, Grants or Loans |
| EO 11988 - Floodplain Management |
| EO 11990 - Protection of Wetlands |
| EO 12114 - Environmental Effects Abroad of Major Federal Actions |
| EO 12843 - Procurement Requirements and Policies for Federal Agencies for Ozone-Depleting Substances |
| EO 12856 - Federal Compliance with Right-to-Know Laws and Pollution Prevention Requirements |
| EO 12898 - Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations |
| EO 13112 - Invasive Species 1999 |
| EO 13423 - Strengthening Federal Environmental, Energy, and Transportation Management |
| EO 13186 - Responsibilities of Federal Agencies to Protect Migratory Birds |
| OTHER FEDERAL STANDARDS |
| EPA Air Quality Standards |
| DEPARTMENT OF ENERGY |
| DOE P 456.1 - Secretarial Policy Statement on Nanoscale Safety (dated 09/15/05) |
| CODE OF COLORADO REGULATIONS (CCR) |
| 2 CCR 402-2 - Water Well Construction |
| 2 CCR 402-4 - Rules for Small Capacity Well Permits in Designated Ground Water Basins |
| 2 CCR 406-8 Chapter 10, Article 2 and 3 - Non-Game Wildlife |
| 5 CCR 1001. 1-20 - Colorado Department of Public Health & Environment, Air Quality Control Commission Regulations |
| 5 CCR 1001-10, Regulation No. 8 - Control of Hazardous Air Pollutants |
| 5 CCR 1001-19 - Control of Emission of Ozone Depleting Compounds |
| 5 CCR 1002-31 - Basic Standards and Methodologies for Surface Water |

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| 5 CCR 1002-41 - The Basic Standards for Groundwater |
| 5 CCR 1002-42 - Site-Specific Water Quality Classifications and Standards for Ground Water (Rocky Flats Area) |
| 5 CCR 1002-61 - Colorado Discharge Permit System Regulations |
| 5 CCR 1002-62 - Regulations for Effluent Limits |
| 5 CCR 1002-63 - Pretreatment Regulations |
| 5 CCR 1002-65 - Regulations Controlling Discharges to Storm Sewers |
| 5 CCR 1003 -1 - Primary Drinking Water Regulations |
| 5 CCR 1003-6 - Guidelines on Individual Sewage Disposal Systems |
| 6 CCR 1007-1, Part 1 - General Provisions |
| 6 CCR 1007-1, Part 2 - Registration of Radiation Producing Machines |
| 6 CCR 1007-1, Part 3, Sections 1-7 - Exempt and General License Material |
| 6 CCR 1007-1, Part 4 - Standards for Protection Against Radiation |
| 6 CCR 1007-1, Part 8 - Radiation Safety Requirements for Analytical X-Ray Equipment |
| 6 CCR 1007-1, Part 10 - Notices, Instructions, and Reports to Workers: Inspections |
| 6 CCR 1007-1, Part 17 - Transportation of Radioactive Material |
| 6 CCR 1007-3 - Colorado Hazardous Waste Regulations |
| 7 CCR 1101-14 - Underground Storage Tanks and Aboveground Storage Tanks |
| 8 CCR 1507-1 - Colorado Operation of Commercial Vehicles and Transportation of Hazardous Materials |
| 8 CCR 1507-7 - Colorado Hazardous Materials Route Designation |
| 8 CCR 1507-8 - Colorado Hazardous Materials Transportation Reporting |
| 8 CCR 1507-9 - Colorado Transporting and Shipping of Hazardous Materials |
| Rules and Regulations Pertaining to the Administration and Enforcement of the Colorado Weed Management Act (Colorado State Weed List - No citation available yet.) |
| COLORADO REVISED STATUTES (CRS) |
| 8 CRS 20.5, Parts 1-3 - Petroleum Storage Tanks |
| 25 CRS 7 - Air Quality Control |
| 25 CRS 8 - Colorado Water Quality Control Act |
| 25 CRS 10 - Individual Sewage Disposal Systems Act |
| 25 CRS 15, Part 1, Part 3 - State Hazardous Waste Management Program |
| 25 CRS 15, Part 1, Part 4 - Infectious Waste |
| 29 CRS 22 - Hazardous Substances Incidents |
| 33 CRS 2 - Nongame and Endangered Species Conservation |
| 33 CRS 6 - Law Enforcement and Penalties |
| 35 CRS 5 - Pest Control Districts |
| 35 CRS 5.5 - Colorado Weed Management Act |
| 35 CRS 9 - Pesticide Act |
| 35 CRS 10 - Pesticide Applicators Act |
| 37 CRS 90 - 101, et seq. - Colorado Ground Water Management Act |

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| AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) |
| ACGIH Threshold Limit Values for Chemical Substances and Physical Agents (Latest Edition) |
| AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) |
| ANSI Z136.1 - Safe Use of Lasers (Latest Version) |
| ANSI Z88.2 – American National Standard for Respiratory Protection |
| ANSI Z49.1:2005 – Safety in Welding, Cutting and Allied Processes |
| AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) |
| ASME Boiler and Pressure Vessel Code (Sections I – XII, including applicable Code cases) |
| NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) |
| NFPA - National Fire Codes (Latest Version of Each Code, or as Adopted by the Authority Having Jurisdiction) |
| NATIONAL INSTITUTE OF HEALTH (NIH) |
| NIH - Guidelines for Research Involving Recombinant DNA Molecules (Latest Edition) Excluding: |
| <ul style="list-style-type: none"> • Section IV-B-2-a(3): Annual reporting to NIH including the roster of NREL’s Institutional Biosafety Committee (IBC). • Section IV-B-2-a(6): Open IBC meetings to the public, when possible. • Section IV-B-2-a(7): All IBC meeting minutes will be made available to the public for review and comment. Public comments and the IBC response is to be forwarded to NIH. |
| INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS |
| International Building Code (IBC) 2006 |
| International Fire Code (IFC) 2006 |
| OTHER LOCAL STANDARDS |
| Consolidated Mutual Water Company Rules |
| Jefferson County Dept. of Health and Environment, Individual Sewage Disposal Sys. Reg. |
| Metro Wastewater Reclamation District Rules and Regulations |
| Pleasant View Water and Sanitation District Rules and Regulations |
| West Metro Fire Rescue Amendments to the International Fire Code |

SECTION J, LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS, ATTACHMENT 5, OPERATING AND ADMINISTRATIVE REQUIREMENTS (LIST B) is deleted and replaced in its entirety with the following which reflects the incorporation of the following changes:

**Summary of Modifications to Attachment 5
Operating and Administrative Requirements**

Mod 221

| | | |
|---------|---|-------------------------|
| Deleted | DOE O 443.1 CRD Protection of Human Subjects Approved: 05/15/00 This Order does not apply to NREL | CRD applicable in whole |
| Added | DOE N 206.5 CRD Response and Notification Procedures for Data Breaches Involving Personally Identifiable Information Approved: 10/09/07 | CRD applicable in whole |
| Added | DOE O 210.2 CRD DOE Corporate Operating Experience Program Approved: 06/12/06 | CRD applicable in whole |
| Deleted | DOE O 226.1 CRD Implementation of Department of Energy Oversight Policy Approved: 09/15/05 | CRD applicable in whole |
| Added | DOE O 226.1A CRD Implementation of Department of Energy Oversight Policy Approved: 07/31/07 | CRD applicable in whole |
| Deleted | DOE M 231-1A CRD Environment, Safety and Health Reporting Manual Change 1: 09/09/04 | CRD applicable in whole |
| Added | DOE M 231.1-1A CRD Safety and Health Reporting Manual Approved: 03/19/04 Change 2: 06/12/07 | CRD applicable in whole |

**SECTION J – LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS
ATTACHMENT 5**

OPERATING AND ADMINISTRATIVE REQUIREMENTS (LIST B)

Prime Contract No. DE-AC36-99GO10337

The operating and administrative requirements, including the Contractor Requirements Documents of DOE directives listed below are applicable in whole or in part in accordance with clauses H-19 Application of DOE Contractor Requirements Documents and 970.5204-2, Laws, Regulations, and DOE Directives (DEC 2000). The concurrence analysis documenting applicability for each requirement below is maintained in the DOE Master File as well as any assurances as required by Clause H-19, are made a part of this Contract by reference and are managed through a formal change control process.

| Operating and Administrative Requirements | Applicability |
|--|-------------------------|
| DOE O 110.3A CRD Conference Management Approved: 01/25/07 | CRD applicable in whole |
| DOE O 130.1 CRD Budget Formulation Approved: 09/29/95 | CRD applicable in whole |
| DOE O 142.3 CRD Unclassified Foreign Visits and Assignments Program Approved: 06/18/04 | CRD applicable in whole |
| DOE O 151.1C CRD Comprehensive Emergency Management System Approved: 11/02/05 | CRD applicable in whole |
| DOE O 200.1 CRD Information Management Program Approved: 09/30/96 | CRD applicable in whole |
| DOE N 203.1 CRD Software Quality Assurance Approved: 10/02/00 | CRD applicable in whole |
| DOE O 205.1A CRD Department of Energy Cyber Security Management Approved: 12/04/06 | CRD applicable in whole |
| DOE N 205.2 CRD Foreign National Access to DOE Cyber Systems Approved: 11/01/99 DOE N 205.7, dated 02/12/04, extends this directive until 08/12/04 DOE N 205.16, dated 09/15/05, extends this directive until 09/30/06 | CRD applicable in whole |
| DOE N 205.3 CRD Password Generation, Protection and Use Approved: 11/23/99 DOE N 205.7, dated 02/12/04, extends this directive until 08/12/04 DOE N 205.16, dated 09/15/05, extends this directive until 09/30/06 | CRD applicable in part |

| Operating and Administrative Requirements | Applicability |
|--|-------------------------|
| DOE N 205.8 CRD Cyber Security Requirements for Wireless Devices and Information Systems Approved: 02/11/04 DOE N 205.15, dated 03/18/05, extends this directive until 03/18/06 | CRD applicable in part |
| DOE N 205.9 CRD Certification and Accreditation Process for Information Systems Including National Security Systems Approved: 02/19/04 DOE N 205.15, dated 03/18/05, extends this directive until 03/18/06 | CRD applicable in part |
| DOE N 205.10 CRD Cyber Security Requirements for Risk Management Approved: 02/19/04 DOE N 205.15, dated 03/18/05, extends this directive until 03/18/06 | CRD applicable in part |
| DOE N 205.11 CRD Security Requirements for Remote Access to DOE and Applicable Contractor Information Technology Systems Approved: 02/19/04 DOE N 205.15, dated 03/18/05, extends this directive until 03/18/06 | CRD applicable in part |
| DOE N 206.3 CRD Personal Identity Verification Approved: 11/22/05 (DOE N 251.67 extends DOE N 206.3 until 03/22/07) | CRD applicable in part |
| DOE N 206.5 CRD Response and Notification Procedures for Data Breaches Involving Personally Identifiable Information Approved: 10/09/07 | CRD applicable in whole |
| DOE O 210.2 CRD Corporate Operating Experience Program Approved: 06/12/07 | CRD applicable in whole |
| DOE O 221.1 CRD Reporting Fraud, Waste, and Abuse to the Office of Inspector General Approved: 03/22/01 | CRD applicable in whole |
| DOE O 221.2 CRD Cooperation with the OIG Approved: 03/22/01 | CRD applicable in whole |
| DOE O 225.1A CRD Accident Investigations Approved: 11/26/97 | CRD applicable in whole |
| DOE O 226.1A CRD Implementation of Department of Energy Oversight Policy Approved: 09/15/05 Change 1: 07/21/07 | CRD applicable in whole |

| Operating and Administrative Requirements | Applicability |
|---|-------------------------|
| DOE M 231-1A CRD Change 2 Environment, Safety and Health Reporting Manual Approved: 03/19/04 Change 2: 06/12/07 | CRD applicable in whole |
| DOE M 231.1-2 CRD Occurrence Reporting and Processing of Operations Information Approved: 08/19/03 | CRD applicable in whole |
| DOE O 241.1A CRD Scientific and Technical Information Management Approved: 04/09/01 | CRD applicable in whole |
| DOE O 243.1 CRD Records Management Program Approved: 02/03/06 | CRD applicable in whole |
| DOE O 243.2 CRD Vital Records Approved: 02/02/06 | CRD applicable in whole |
| DOE O 251.1B CRD Departmental Directives Program Approved: 08/16/06 | CRD Applicable in whole |
| DOE O 350.1 CRD(s) Change 1 Contractor Human Resource Management Programs Approved: 09/30/96 Change 1: 05/08/98 | CRD applicable in whole |
| DOE O 350.2A CRD Use of Management and Operating or Other Facility Management Contractor Employees for Services to DOE in the Washington, D.C., Area Approved: 10/29/03 | CRD applicable in whole |
| DOE O 412.1 CRD Work Authorization System Approved: 04/20/99 | CRD applicable in whole |
| DOE O 413.1A CRD Management Control Program Approved: 04/18/02 | CRD applicable in whole |
| DOE O 413.2B CRD Laboratory Directed Research and Development Approved: 04/19/06 | CRD applicable in whole |
| DOE O 413.3A CRD Program and Project Management for the Acquisition of Capital Assets Approved: 07/28/06 | CRD applicable in whole |
| DOE O 414.1C CRD Quality Assurance Approved: 06/17/05 | CRD applicable in part |

| Operating and Administrative Requirements | Applicability |
|---|-------------------------|
| DOE O 430.1B CRD Real Property Asset Management Approved: 09/24/03 | CRD applicable in whole |
| DOE O 430.2A CRD Departmental Energy and Utilities Management Approved: 04/15/02 | CRD applicable in whole |
| DOE O 450.1 CRD (Change 3) Administrative Change 1 Environmental Protection Program Approved: 01/15/03 Change 3: 01/03/07 | CRD applicable in whole |
| DOE M 450.4-1 CRD Integrated Safety Management System Manual Approved: 11/01/06 | CRD applicable in whole |
| DOE O 470.2B CRD Independent Oversight and Performance Assurance Program Approved: 10/31/02 | CRD applicable in whole |
| DOE M 470.4-1 CRD Change 1 Safeguards and Security Program Planning and Management Approved: 08/26/05 Change 1: 03/07/06 | CRD applicable in part |
| DOE M 470.4-2 CRD Change 1 Physical Protection Approved: 08/26/05 Change 1: 03/07/06 | CRD applicable in part |
| DOE M 470.4-3 CRD Change 1 Protective Force Approved: 08/26/05 Change 1: 03/07/06 | CRD applicable in part |
| DOE M 470.4-4 CRD Information Security Approved: 08/26/05 | CRD applicable in part |
| DOE M 470.4-5 CRD Personnel Security Approved: 08/26/05 | CRD applicable in part |
| DOE O 471.3 CRD Identifying and Protecting Official Use Only Information Approved: 04/09/03 | CRD applicable in whole |
| DOE M 471.3-1 CRD Manual for Identifying and Protecting Official Use Only Information Approved: 04/09/03 | CRD applicable in whole |
| DOE O 475.1 CRD Counterintelligence Program Approved: 12/10/04 | CRD applicable in whole |

| Operating and Administrative Requirements | Applicability |
|--|-------------------------|
| DOE O 482.1 CRD DOE Facilities Technology Partnering Programs Approved: 01/12/01 | CRD applicable in whole |
| DOE O 483.1 CRD DOE Cooperative Research and Development Agreements Approved: 01/12/01 | CRD applicable in whole |
| DOE O 484.1 CRD Reimbursable Work for the Department of Homeland Security Approved: 08/17/06 | CRD applicable in whole |
| DOE O 522.1 CRD Pricing of Departmental Materials and Services Approved: 11/03/04 | CRD applicable in whole |
| DOE O 534.1B CRD Accounting Approved: 01/06/03 | CRD applicable in whole |
| DOE O 551.1B CRD Official Foreign Travel Approved: 08/19/03 | CRD applicable in whole |
| DOE O 580.1 CRD Department of Energy Personal Property Management Program Approved: 12/07/05 | CRD applicable in whole |