## Attachment F Operating and Administrative Requirements (List B)

Prime Contract No. DE-AC36-08GO28308

The operating and administrative requirements, including the Contractor Requirements Documents (CRD) of DOE directives listed below are applicable in whole or in part in accordance with clauses H.18 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.18 and 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 142.3B Chg 1 (LtdChg) CRD                                     | CRD applicable in whole |
| Unclassified Foreign National Access Program                        | Transfer in the second  |
| Approved: 01/15/21  |                         |
| Chg 1 (LtdChg): 03/02/22  |                         |
| DOE O 144.1 Admin Chg 1 CRD   | CRD applicable in whole |
| Department of Energy American Indian Tribal Government Interactions |                         |
| and Policy  |                         |
| Approved: 01/16/09  |                         |
| Admin Chg 1: 11/06/09   |                         |
| DOE O 150.1B CRD  | CRD applicable in whole |
| Continuity Programs   |                         |
| Approved: 12/21/21  |                         |
| DOE O 151.1D Chg 1 (MinChg) CRD                                     | CRD applicable in whole |
| Comprehensive Emergency Management System                           |                         |
| Approved: 08/11/16  |                         |
| Chg 1 (MinChg): 10/04/19  |                         |
| DOE O 200.1A Chg 1 (MinChg) CRD                                     | CRD applicable in whole |
| Information Technology Management                                   |                         |
| Approved: 12/23/08  |                         |
| Chg 1 (MinChg): 01/13/17  |                         |
| DOE O 205.1C Chg 1 (LtdChg) CRD                                     | CRD applicable in whole |
| Department of Energy Cyber Security Program                         |                         |
| Approved: 05/15/19  |                         |
| Chg 1 (LtdChg): 02/03/22  |                         |
| DOE O 206.1 Chg 1 (MinChg) CRD                                      | CRD applicable in whole |
| Department of Energy Privacy Program                                |                         |
| Approved: 01/16/09  |                         |
| Chg 1 (MinChg): 11/01/18  |                         |
| DOE O 206.2 Chg 1 (LtdChg) CRD                                      | CRD applicable in part  |
| Identity, Credential, and Access Management (ICAM)                  |                         |
| Approved: 02/19/13  |                         |
| Chg 1 (LtdChg): 09/02/22  |                         |
| DOE O 210.2A CRD  | CRD applicable in whole |
| DOE Corporate Operating Experience Program                          |                         |
| Approved: 04/08/11  |                         |

| DOE O 221.1B CRD Reporting Fraud, Waste and Abuse to the Office of Inspector General Approved: 09/27/16 DOE O 221.2A CRD Cooperation with the Office of Inspector General Approved: 02/25/08 DOE O 225.1B CRD Accident Investigations Approved: 03/04/11 DOE O 226.1B Chg 1 (AdminChg) CRD Implementation of Department of Energy Oversight Policy Approved: 04/25/11 Chg 1 (Admin Chg): 05/03/22 DOE O 227.1A Chg 1 (AdminChg) CRD Independent Oversight Program Approved: 12/21/15 Chg 1 (AdminChg): 01/21/20 DOE O 231.1B Admin Chg 1 CRD Environment, Safety and Health Reporting Approved: 06/27/11 Admin Chg 1: 11/28/12 DOE O 232.2A Chg 1 (MinChg) CRD CRD applicable in whole Environment, Safety and Health Reporting Approved: 06/27/11 Admin Chg 1: 11/28/12 DOE O 232.2A Chg 1 (MinChg) CRD CCUrrence Reporting and Processing of Operations Information Approved: 01/17/17 Chg 1 (MinChg): 10/04/19 DOE O 241.1B Chg 1 (Admin Chg) CRD Scientific and Technical Information Management Approved: 12/13/10 Chg 1 (Admin Chg): 04/26/16 DOE O 243.1C CRD Records Management Program Approved: 02/07/22 DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD CRD applicable in whole CRD applicable in whole CRD applicable in whole   |  | Modification M1338      |
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| Reporting Fraud, Waste and Abuse to the Office of Inspector General Approved: 09/27/16  DOF O 221.2A CRD  Cooperation with the Office of Inspector General Approved: 02/25/08  DOF O 225.1B CRD  Accident Investigations Approved: 03/04/11  DOE O 226.1B Chg 1 (AdminChg) CRD Implementation of Department of Energy Oversight Policy Approved: 04/25/11  Chg 1 (Admin Chg): 05/03/22  DOE O 227.1A Chg 1 (AdminChg) CRD Independent Oversight Program Approved: 12/21/15  Chg 1 (AdminChg): 01/21/20  DOE O 231.1B Admin Chg 1 CRD  Environment, Safety and Health Reporting Approved: 06/27/11  Admin Chg 1: 11/28/12  DOE O 232.2A Chg 1 (MinChg) CRD  CRD applicable in whole   | Operating and Administrative Requirements                        | Applicability           |
| Approved: 09/27/16  DOE O 221.2A CRD  Cooperation with the Office of Inspector General Approved: 02/25/08  DOE O 225.1B CRD  Accident Investigations Approved: 03/04/11  DOE O 226.1B Ckp 1 (AdminChg) CRD Implementation of Department of Energy Oversight Policy Approved: 04/25/11  Chg 1 (Admin Chg): 05/03/22  DOE O 227.1A Chg 1 (AdminChg) CRD Independent Oversight Program Approved: 12/21/15  Chg 1 (Admin Chg): 01/21/20  DOE O 231.1B Admin Chg 1 CRD Environment, Safety and Health Reporting Approved: 06/27/11  Admin Chg 1: 11/28/12  DOE O 232.2A Chg 1 (MinChg) CRD  CRD applicable in whole   |  | CRD applicable in whole |
| DOE O 221.2A CRD Cooperation with the Office of Inspector General Approved: 02/25/08 DOE O 225.1B CRD Accident Investigations Approved: 03/04/11 DOE O 226.1B Chg I (AdminChg) CRD Implementation of Department of Energy Oversight Policy Approved: 04/25/11 Chg 1 (AdminChg): 05/03/22 DOE O 227.1A Chg I (AdminChg) CRD Independent Oversight Program Approved: 12/21/15 Chg 1 (AdminChg): 01/21/20 DOE O 231.1B Admin Chg I CRD Environment, Safety and Health Reporting Approved: 06/27/11 Admin Chg I: 11/28/12 DOE O 232.2A Chg I (MinChg) CRD Occurrence Reporting and Processing of Operations Information Approved: 01/17/17 Chg I (MinChg): 10/04/19 DOE O 241.1B Chg I (Admin Chg) CRD Scientific and Technical Information Management Approved: 02/07/22 DOE O 243.1C CRD Records Management Program Approved: 02/07/22 DOE O 243.1C CRD CRD applicable in whole  |  |                         |
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| Approved: 02/25/08 DOE O 225.1B CRD Accident Investigations Approved: 03/04/11 DOE O 226.1B Chg 1 (AdminChg) CRD Implementation of Department of Energy Oversight Policy Approved: 04/25/11 Chg 1 (Admin Chg): 05/03/22 DOE O 227.1A Chg 1 (AdminChg) CRD Independent Oversight Program Approved: 12/21/15 Chg 1 (AdminChg): 01/21/20 DOE O 231.1B Admin Chg 1 CRD Environment, Safety and Health Reporting Approved: 06/27/11 Admin Chg 1: 11/28/12 DOE O 232.2A Chg 1 (MinChg) CRD Cocurrence Reporting and Processing of Operations Information Approved: 01/17/17 Chg 1 (MinChg): 10/04/19 DOE O 241.1B Chg 1 (Admin Chg) CRD Scientific and Technical Information Management Approved: 12/13/10 Chg 1 (Admin Chg): 04/26/16 DOE O 243.1C CRD Records Management Program Approved: 02/07/22 DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20 DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17 DOE O 413.2C Chg 1 (MinChg) CRD CRD applicable in whole CR |  | CRD applicable in whole |
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| Implementation of Department of Energy Oversight Policy Approved: 04/25/11 Chg 1 (Admin Chg): 05/03/22  DOE O 227.1A Chg 1 (AdminChg) CRD Independent Oversight Program Approved: 12/21/15 Chg 1 (AdminChg): 01/21/20 DOE O 231.1B Admin Chg 1 CRD Environment, Safety and Health Reporting Approved: 06/27/11 Admin Chg 1: 11/28/12 DOE O 232.2A Chg 1 (MinChg) CRD Occurrence Reporting and Processing of Operations Information Approved: 01/17/17 Chg 1 (MinChg): 10/04/19 DOE O 241.1B Chg 1 (Admin Chg) CRD Scientific and Technical Information Management Approved: 12/13/10 Chg 1 (Admin Chg): 04/26/16 DOE O 243.1C CRD Records Management Program Approved: 02/07/22 DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20 DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17 DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 01/04/17 DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18 DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10   | DOE O 226.1B Chg 1 (AdminChg) CRD                                | CRD applicable in whole |
| Approved: 04/25/11 Chg 1 (Admin Chg): 05/03/22 DOE O 227.1A Chg 1 (AdminChg) CRD Independent Oversight Program Approved: 12/21/15 Chg 1 (AdminChg): 01/21/20 DOE O 231.1B Admin Chg 1 CRD Environment, Safety and Health Reporting Approved: 06/27/11 Admin Chg 1: 11/28/12 DOE O 232.2A Chg 1 (MinChg) CRD Coccurrence Reporting and Processing of Operations Information Approved: 01/17/17 Chg 1 (MinChg): 10/04/19 DOE O 241.1B Chg 1 (Admin Chg) CRD Scientific and Technical Information Management Approved: 12/13/10 Chg 1 (Admin Chg): 04/26/16 DOE O 243.1C CRD Records Management Program Approved: 02/07/22 DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20 DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17 DOE O 413.2C CRg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18 DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in whole   | Implementation of Department of Energy Oversight Policy          |                         |
| Cfig 1 (Admin Chg): 05/03/22  DOE O 227.1A Chg 1 (AdminChg) CRD Independent Oversight Program Approved: 12/21/15 Chg 1 (AdminChg): 01/21/20  DOE O 231.1B Admin Chg 1 CRD Environment, Safety and Health Reporting Approved: 06/27/11 Admin Chg 1: 11/28/12 DOE O 232.2A Chg 1 (MinChg) CRD Occurrence Reporting and Processing of Operations Information Approved: 01/17/17 Chg 1 (MinChg): 10/04/19 DOE O 241.1B Chg 1 (Admin Chg) CRD Scientific and Technical Information Management Approved: 12/13/10 Chg 1 (Admin Chg): 04/26/16 DOE O 243.1C CRD Records Management Program Approved: 02/07/22 DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VII - Contractor Workplace Substance Abuse Programs CRD CRD applicable in whole  |  |                         |
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| Approved: 06/27/11 Admin Chg 1: 11/28/12  DOE O 232.2A Chg 1 (MinChg) CRD  Occurrence Reporting and Processing of Operations Information Approved: 01/17/17 Chg 1 (MinChg): 10/04/19  DOE O 241.1B Chg 1 (Admin Chg) CRD  Scientific and Technical Information Management Approved: 12/13/10 Chg 1 (Admin Chg): 04/26/16  DOE O 243.1C CRD  Records Management Program Approved: 02/07/22 DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD CRD applicable in whole Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20  DOE O 413.2 C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18 DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10   |  | CKD applicable in whole |
| Admin Chg 1: 11/28/12  DOE O 232.2A Chg 1 (MinChg) CRD  Occurrence Reporting and Processing of Operations Information Approved: 01/17/17  Chg 1 (MinChg): 10/04/19  DOE O 241.1B Chg 1 (Admin Chg) CRD  Scientific and Technical Information Management Approved: 12/13/10  Chg 1 (Admin Chg): 04/26/16  DOE O 243.1C CRD  Records Management Program Approved: 02/07/22  DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD CRD applicable in whole  |  |                         |
| DOE O 232.2A Chg 1 (MinChg) CRD Occurrence Reporting and Processing of Operations Information Approved: 01/17/17 Chg 1 (MinChg): 10/04/19 DOE O 241.1B Chg 1 (Admin Chg) CRD Scientific and Technical Information Management Approved: 12/13/10 Chg 1 (Admin Chg): 04/26/16 DOE O 243.1C CRD Records Management Program Approved: 02/07/22 DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20 DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17 DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18 DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in part  CRD applicable in whole   |  |                         |
| Occurrence Reporting and Processing of Operations Information Approved: 01/17/17 Chg 1 (MinChg): 10/04/19 DOE O 241.1B Chg 1 (Admin Chg) CRD Scientific and Technical Information Management Approved: 12/13/10 Chg 1 (Admin Chg): 04/26/16  DOE O 243.1C CRD Records Management Program Approved: 02/07/22 DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17 DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18 DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  |  | CDD andicable in next   |
| Approved: 01/17/17 Chg 1 (MinChg): 10/04/19 DOE O 241.1B Chg 1 (Admin Chg) CRD Scientific and Technical Information Management Approved: 12/13/10 Chg 1 (Admin Chg): 04/26/16 DOE O 243.1C CRD Records Management Program Approved: 02/07/22 DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20 DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17 DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18 DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  |  | CRD applicable in part  |
| Chg 1 (MinChg): 10/04/19  DOE O 241.1B Chg 1 (Admin Chg) CRD Scientific and Technical Information Management Approved: 12/13/10  Chg 1 (Admin Chg): 04/26/16  DOE O 243.1C CRD Records Management Program Approved: 02/07/22  DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  |  |                         |
| DOE O 241.1B Chg 1 (Admin Chg) CRD  Scientific and Technical Information Management  Approved: 12/13/10  Chg 1 (Admin Chg): 04/26/16  DOE O 243.1C CRD  Records Management Program  Approved: 02/07/22  DOE O 350.1 Chg 7 (LtdChg)  Contractor Human Resource Management Programs  Chapter VIII - Contractor Workplace Substance Abuse Programs CRD  CRD applicable in whole  CRD applicable in part  CRD applicable in whole  CRD applicable in whole  CRD applicable in whole  CRD applicable in part   | **   |                         |
| Scientific and Technical Information Management Approved: 12/13/10 Chg 1 (Admin Chg): 04/26/16  DOE O 243.1C CRD Records Management Program Approved: 02/07/22 DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20 DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17 DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18 DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in whole CRD applicable in whole CRD applicable in whole CRD applicable in whole CRD applicable in part  |  |                         |
| Approved: 12/13/10 Chg 1 (Admin Chg): 04/26/16  DOE O 243.1C CRD Records Management Program Approved: 02/07/22 DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in whole  CRD applicable in whole  CRD applicable in whole  CRD applicable in whole  CRD applicable in part   |  | CRD applicable in whole |
| Chg 1 (Admin Chg): 04/26/16  DOE O 243.1C CRD  Records Management Program  Approved: 02/07/22  DOE O 350.1 Chg 7 (LtdChg)  Contractor Human Resource Management Programs  Chapter VIII - Contractor Workplace Substance Abuse Programs CRD  Chapter IX - Employee Assistance Programs CRD  CRD applicable in whole  CRD applicable in part  CRD applicable in whole  CRD applicable in part  |  |                         |
| DOE O 243.1C CRD  Records Management Program  Approved: 02/07/22  DOE O 350.1 Chg 7 (LtdChg)  Contractor Human Resource Management Programs  Chapter VIII - Contractor Workplace Substance Abuse Programs CRD  Chapter IX - Employee Assistance Programs CRD  Approved: 09/30/96  Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD  Scientific Integrity  Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD  Laboratory Directed Research and Development  Approved: 10/22/15  Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD  Program and Project Management for the Acquisition of Capital Assets  Approved: 11/29/10  CRD applicable in whole  CRD applicable in whole  CRD applicable in whole  CRD applicable in whole  CRD applicable in part  | **   |                         |
| Records Management Program Approved: 02/07/22  DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10   |  |                         |
| Approved: 02/07/22  DOE O 350.1 Chg 7 (LtdChg) Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in whole CRD applicable in part  |  | CRD applicable in whole |
| DOE O 350.1 Chg 7 (LtdChg)  Contractor Human Resource Management Programs  Chapter VIII - Contractor Workplace Substance Abuse Programs CRD  Chapter IX - Employee Assistance Programs CRD  Approved: 09/30/96  Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD  Scientific Integrity  Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD  Laboratory Directed Research and Development  Approved: 10/22/15  Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD  Program and Project Management for the Acquisition of Capital Assets  Approved: 11/29/10  CRD applicable in whole  CRD applicable in whole  CRD applicable in whole  CRD applicable in whole  CRD applicable in part  |  |                         |
| Contractor Human Resource Management Programs Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in whole CRD applicable in part   | Approved: 02/07/22   |                         |
| Chapter VIII - Contractor Workplace Substance Abuse Programs CRD Chapter IX - Employee Assistance Programs CRD Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in whole CRD applicable in whole CRD applicable in whole CRD applicable in part CRD applicable in whole CRD applicable in part  | DOE O 350.1 Chg 7 (LtdChg)                                       |                         |
| Chapter IX - Employee Assistance Programs CRD  Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD  Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in whole  CRD applicable in whole  CRD applicable in part  | Contractor Human Resource Management Programs                    |                         |
| Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in whole  CRD applicable in part   | Chapter VIII - Contractor Workplace Substance Abuse Programs CRD | CRD applicable in whole |
| Approved: 09/30/96 Chg 7 (LtdChg): 02/19/20  DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in whole  CRD applicable in part   | Chapter IX - Employee Assistance Programs CRD                    | CRD applicable in whole |
| DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in whole CRD applicable in part CRD applicable in part  | Approved: 09/30/96   |                         |
| DOE O 411.2 CRD Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in whole CRD applicable in part CRD applicable in part  | Chg 7 (LtdChg): 02/19/20   |                         |
| Scientific Integrity Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD Laboratory Directed Research and Development Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  CRD applicable in part  CRD applicable in part   |  | CRD applicable in whole |
| Approved: 01/04/17  DOE O 413.2C Chg 1 (MinChg) CRD  Laboratory Directed Research and Development  Approved: 10/22/15  Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD  Program and Project Management for the Acquisition of Capital Assets  Approved: 11/29/10  CRD applicable in part   |  |                         |
| DOE O 413.2C Chg 1 (MinChg) CRD  Laboratory Directed Research and Development  Approved: 10/22/15  Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD  Program and Project Management for the Acquisition of Capital Assets  Approved: 11/29/10  CRD applicable in whole  CRD applicable in whole  CRD applicable in part   |  |                         |
| Laboratory Directed Research and Development  Approved: 10/22/15  Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD  Program and Project Management for the Acquisition of Capital Assets  Approved: 11/29/10  CRD applicable in part  | **   | CRD applicable in whole |
| Approved: 10/22/15 Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD  Program and Project Management for the Acquisition of Capital Assets  Approved: 11/29/10  CRD applicable in part   | <b>C</b> ( <b>C</b> )  | application in whole    |
| Chg 1 (MinChg): 08/02/18  DOE O 413.3B Chg 6 (LtdChg) CRD  Program and Project Management for the Acquisition of Capital Assets  Approved: 11/29/10  CRD applicable in part  |  |                         |
| DOE O 413.3B Chg 6 (LtdChg) CRD  Program and Project Management for the Acquisition of Capital Assets  Approved: 11/29/10  CRD applicable in part  |  |                         |
| Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/10  |  | CRD applicable in part  |
| Approved: 11/29/10   |  | applicable in part      |
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| Cng to (LtatCng): 01/12/21   | * *  |                         |
|  | Cing to (LitaCing): 01/12/21                                     |                         |

| One proting and Administration Description                      | Modification M1358         |
|---|----------------------------|
| Operating and Administrative Requirements                       | Applicability              |
| DOE O 414.1D Chg 2 (LtdChg) CRD                                 | CRD applicable in part     |
| Quality Assurance   |                            |
| Approved: 04/25/11  |                            |
| Chg 2 (LtdChg): 09/15/20  |                            |
| DOE O 420.1C Chg 3 (LtdChg) CRD                                 | CRD applicable in part     |
| Facility Safety   |                            |
| Approved: 12/04/12  |                            |
| Chg 3 (LtdChg): 11/14/19  |                            |
| DOE O 435.1 Chg 2 (AdminChg) CRD                                | CRD applicable in part     |
| Radioactive Waste Management                                    |                            |
| Approved: 07/09/99  |                            |
| Chg 2 (AdminChg): 01/11/21                                      |                            |
| DOE O 436.1 CRD   | CRD is applicable in whole |
| Departmental Sustainability                                     |                            |
| Approved: 05/02/11  |                            |
| DOE O 437.1 CRD   | CRD applicable in part     |
| Bridge and Tunnel Management                                    |                            |
| Approved: 12/11/20  |                            |
| DOE O 440.2C Chg 2 (Ltd Chg) CRD                                | CRD applicable in whole    |
| Aviation Management and Safety                                  |                            |
| Approved: 06/15/11  |                            |
| Chg 2 (LtdChg): 09/15/20  |                            |
| DOE O 442.1B CRD  | CRD applicable in whole    |
| Department of Energy Employee Concerns Program                  |                            |
| Approved: 01/31/19  |                            |
| DOE O 442.2 Chg 1 (PgChg) CRD                                   | CRD applicable in whole    |
| Differing Professional Opinions for Technical Issues Involving  |                            |
| Environmental, Safety, and Health Technical Concerns            |                            |
| Approved: 07/29/11  |                            |
| Chg 1 (PgChg): 10/05/16   |                            |
| DOE O 443.1C CRD  | CRD applicable in part     |
| Protection of Human Research Subjects                           |                            |
| Approved: 11/26/19  |                            |
| DOE O 456.1A CRD  | CRD applicable in whole    |
| The Safe Handling of Unbound Engineered Nanoparticles Approved: |                            |
| 07/15/16  |                            |
| DOE O 458.1 Chg 4 (LtdChg) CRD                                  | CRD applicable in part     |
| Radiation Protection of the Public and the Environment          |                            |
| Approved: 02/11/11  |                            |
| Chg 4 (LtdChg): 09/15/20  |                            |
| DOE O 470.3C Chg 1 (LtdChg)                                     | Applicable in whole        |
| Design Basis Threat (DBT)                                       |                            |
| Approved: 11/23/16  |                            |
| Chg 1 (LtdChg): 09/09/20  |                            |
| DOE O 470.4B Chg 3 (LtdChg) CRD                                 | CRD applicable in whole    |
| Safeguards and Security Program                                 |                            |
| Approved: 07/21/11  |                            |
| Chg 3 (LtdChg): 09/23/21  |                            |
| (Intentionally left blank)                                      |                            |
| (   |                            |

| O (' 141''' D ' (   | Modification M1358   |
|---|--|
| Operating and Administrative Requirements                         | Applicability  |
| DOE O 470.5 CRD   | CRD applicable in whole  |
| Insider Threat Program  |  |
| Approved: 06/02/14  | CDD 1: 11 : 1 1  |
| DOE O 470.6 Chg 1 (MinChg) CRD                                    | CRD applicable in whole  |
| Technical Security Program  |  |
| Approved: 09/02/15  |  |
| Chg 1 (MinChg): 01/11/17  |  |
| DOE O 471.6 Chg 3 (AdminChg) CRD                                  | CRD applicable in whole  |
| Information Security  |  |
| Approved: 06/20/11  |  |
| Chg 3 (AdminChg): 09/12/19  |  |
| DOE O 471.7 CRD   | CRD applicable in whole  |
| Controlled Unclassified Information                               |  |
| Approved: 02/03/22  |  |
| DOE O 472.2A CRD  | CRD applicable in whole  |
| Personnel Security  |  |
| Approved: 6/10/22   |  |
| DOE O 473.2A CRD  | CRD applicable in part   |
| Protective Force Operations                                       |  |
| Approved: 08/30/21  |  |
| DOE O 475.1 CRD   | CRD applicable in whole  |
| Counterintelligence Program                                       |  |
| Approved: 12/10/04  |  |
| DOE O 475.2B CRD  | CRD applicable in whole  |
| Identifying Classified Information                                | The state of the s |
| Approved: 10/03/14  |  |
| DOE O 483.1B Chg 2 (LtdChg) CRD                                   | CRD applicable in whole  |
| DOE Cooperative Research and Development Agreements               | ords approacte in whose  |
| Approved: 12/20/16  |  |
| Chg 1 (MinChg): 02/08/19  |  |
| Chg 2 (LtdChg): 12/13/19  |  |
| DOE O 484.1 Admin Chg 2 CRD                                       | CRD applicable in whole  |
| Reimbursable Work for the Department of Homeland Security         | Cito applicable in whole   |
| Approved: 08/17/06  |  |
| Admin Chg 2: 06/30/14   |  |
| Certified Date: 01/15/15  |  |
| DOE O 486.1A CRD  | CRD applicable in whole  |
| Foreign Government Sponsored or Affiliated Activities             | CKD applicable in whole  |
| Approved: 09/04/20  |  |
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| DOE O 520.1B Chg 1 (LtdChg) CRD                                   | CRD applicable in whole  |
| Financial Management and Chief Financial Officer Responsibilities |  |
| Approved: 01/07/21  |  |
| Chg 1 (LtdChg): 11/11/22  | CDD andiastit in and   |
| DOE O 522.1A CRD  | CRD applicable in part   |
| Pricing of Departmental Materials and Services                    |  |
| Approved: 08/02/18  | CDD  |
| DOE O 550.1 Chg 1 (LtdChg) CRD                                    | CRD applicable in whole  |
| Official Travel   |  |
| Approved: 05/02/19  |  |
| Chg 1 (LtdChg): 12/13/19  |  |