

STANDARDS/REQUIREMENTS IDENTIFICATION DOCUMENT

FUNCTIONAL AREA 05.0

EMERGENCY MANAGEMENT (U)

December 12, 2019
REVISION 19-09

This document was approved by DOE-SR on the above date.

Savannah River Remediation LLC
Savannah River Site
Aiken, SC 29808

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05.00 GENERAL REQUIREMENTS

Standards/Requirements Identification Document (S/RID) Functional Area 00, S/RID Purpose and Development, contains general information on the development (including the type of source documents considered), assessment, approval, and maintenance of the Savannah River Remediation LLC (SRR) S/RID that is pertinent to the understanding of this S/RID functional area. The reader should refer to S/RID Functional Area 00 for a complete understanding of this S/RID functional area.

This document addresses the Environment, Safety, and Health (ES&H) requirements related to Emergency Management activities at the Savannah River Site (SRS). The Emergency Management S/RID Functional Area encompasses all aspects of Emergency Management, as described in the elements listed below. The sources for the requirements that govern Emergency Management activities are contained in the Department of Energy (DOE) O 150.1A, DOE O 151.1D, [Change 1](#), and DOE O 153.1.

05.01 CONTINUITY PROGRAMS

This program element contains requirements that describe the overall management and administration of the Continuity of Operations (COOP).

05.02 COMPREHENSIVE EMERGENCY MANAGEMENT SYSTEM

This program element contains requirements that describe the overall Comprehensive Emergency Management System.

05.03 RADIOLOGICAL ASSISTANCE PROGRAM (RAP) AND AERIAL MEASURING SYSTEM (AMS) MANAGEMENT ADMINISTRATION

This section contains requirements for management and administration of the DOE Region 3 Radiological Assistance Program. The term RAP SUPPORT used in the table of requirements for this functional area refers to those activities conducted by SRS in support of Radiological Assistance Program and Aerial Measuring System, Region 3 Program. Requirements for these programs are not applicable to any defined SRS facility.

05.04 KEY INTERFACES

Key interfaces between the Emergency Management S/RID Functional Area and other S/RID functional areas include:

Functional Area 04 - Training and Qualification,
Refer to the Training and Qualification S/RID Functional Area for the specification of such requirements.

Functional Area 11 - Radiation Protection,
Refer to the Radiation Protection S/RID Functional Area for the specification of such requirements.

Functional Area 12 - Fire Protection,
Requirements pertaining to fire emergency response are contained in the Fire Protection S/RID Functional Area.

Functional Area 13 - Packaging and Transportation,
Emergency Management requirements from 49 Code of Federal Regulations (CFR) are covered in the
Packaging and Transportation S/RID Functional Area.

Functional Area 16 - Waste Management,
Emergency Management requirements from 40 CFR are contained in the Environmental Protection S/RID
Functional Area. Refer to the Waste Management and Environmental Protection S/RID Functional Area for
the specification of such requirements.

Functional Area 19 - Occupational Safety and Health (includes medical),
Emergency Management requirements from 29 CFR are covered in the Occupational Safety and Health
S/RID Functional Area.

05.05 DOCUMENTS

05.05.01 Reference Documents

DOEO150.1A	CONTINUITY PROGRAMS, 3/31/2014
DOEO151.1D	COMPREHENSIVE EMERGENCY MANAGEMENT SYSTEM, CHANGE 1, 10/4/2019
DOEO153.1	DEPARTMENTAL RADIOLOGICAL EMERGENCY RESPONSE ASSETS, 6/27/2007

TABLE 1 FORMAT AND CONTENT

S/RID Requirement Number	Unique number for each requirement that links the statement to the ES&H Configuration Guide
Source Document	Number of the source document
Source Document Requirement Number	Unique reference from the source document.
Requirement Text	Requirement statement

Facility Categories *

Requirement applicability is shown in relation to the following facility categories:

Nuclear HC-1,2,3	Representing nuclear hazard category 1, 2 and 3 facilities (as defined by DOE Standard 1027-92) and includes any facility(s) required to support a nuclear facility(s).
Radiological	Representing facilities below Hazard Category 3 but still contain quantities of radioactive material at or above the Reportable Quantity value as specified in 40 CFR 302.4, Appendix B.
High Hazard Chemical	Representing facilities with radiological hazards below 40 CFR 302.4 thresholds for radiological materials, but with any chemical hazard at or above threshold quantities listed in 29 CFR 1910.119 or 40 CFR 68. These facilities may also contain nuclear materials exempt from the nuclear facility definition, e.g., check and calibration sources, radioactive sources in research and experimental and analytical laboratory activities, electron microscopes, and x-ray machines, as defined by 10 CFR 830.3.
Low Hazard Chemical	Representing facilities with radiological hazards below 40 CFR 302.4 thresholds, but with chemical hazards both below 29 CFR 1910.119 or 40 CFR 68 thresholds and at or above reportable quantities in 40 CFR 302.4. These facilities may also contain nuclear materials exempt from the nuclear facility definition, e.g., check and calibration sources, radioactive sources in research and experimental and analytical laboratory activities, electron microscopes, and x-ray machines, as defined by 10 CFR 830.3.
Other Industrial	Representing facilities with all radiological and chemical hazards below 40 CFR 302.4 thresholds. These facilities may also contain nuclear materials exempt from the nuclear facility definition, e.g., check and calibration sources, radioactive sources in research and experimental and analytical laboratory activities, electron microscopes, and x-ray machines, as defined by 10 CFR 830.3.
Facility Specific	These are requirements that are applicable to specific facilities. Facility identification is included in this column, when applicable.

Phase I Compliance Approach

Common	Implementation of these requirements is covered by common procedures and policies.
Facility Specific	Implementation of these requirements is covered by facility specific procedures.

* Refer to the "SRR Facilities List" contained in Functional Area 00 for the category for specific SRR facilities/ bldgs.

FACILITY SPECIFIC LIST(S)

RAP
See FA 00 for list of facilities

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req't Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.00.001	DOEO150.1A	Att.1(a)	Regardless of who performs the work, the contractor is responsible for complying with the requirements of this contractor requirements document (CRD). The contractor is responsible for flowing down the requirements of this CRD to subcontractors at any tier to the extent necessary to ensure the contractor's compliance with the requirements.	X	X	X	X	X		X	
05.00.002	DOEO150.1A	Att.1.1.a	GENERAL REQUIREMENTS. a. Contractors with established business continuity plans, which meet requirements of this CRD, need not develop additional Continuity of Operations (COOP) plans.	X	X	X	X	X		X	
05.00.003	DOEO150.1A	Att.1.1.b(1)	GENERAL REQUIREMENTS. b. The contractor must develop, implement, and update, as necessary, a COOP program designed to: (1) assist the Department in continuing to accomplish essential functions;	X	X	X	X	X		X	
05.00.004	DOEO150.1A	Att.1.1.b(2)	GENERAL REQUIREMENTS. b. The contractor must develop, implement, and update, as necessary, a COOP program designed to: (2) be integrated with the Emergency Management Program, as appropriate;	X	X	X	X	X		X	
05.00.005	DOEO150.1A	Att.1.1.b(3)	GENERAL REQUIREMENTS. b. The contractor must develop, implement, and update, as necessary, a COOP program designed to: (3) utilize existing programs to meet the requirements of this CRD;	X	X	X	X	X		X	
05.00.006	DOEO150.1A	Att.1.1.b(4)	GENERAL REQUIREMENTS. b. The contractor must develop, implement, and update, as necessary, a COOP program designed to: (4) incorporate existing guidance and policy for human resources management;	X	X	X	X	X		X	
05.00.007	DOEO150.1A	Att.1.1.b(5)	GENERAL REQUIREMENTS. b. The contractor must develop, implement, and update, as necessary, a COOP program designed to: (5) identify work for others (deemed a Mission Essential Function (MEF) or a Primary Mission Essential Function by another organization) and their interdependencies.	X	X	X	X	X		X	
05.00.008	DOEO150.1A	Att.1.1.c	GENERAL REQUIREMENTS. c. The COOP or business continuity plan must be approved by the responsible field element.	X	X	X	X	X		X	

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				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.00.009	DOEO150.1A	Att.1.1.d	<p>GENERAL REQUIREMENTS.</p> <p>d. Contractors and federal field elements are encouraged to establish one COOP plan for the site, eliminating the need to develop separate COOP plans.</p>	X	X	X	X	X		X	
05.00.010	DOEO151.1D	Att. 1(1)	<p>Regardless of the performer of the work, the contractor is responsible for complying with the requirements of this Contractor Requirements Document (CRD). The contractor is responsible for flowing down the requirements of this CRD to subcontractors at any tier to the extent necessary to ensure the contractor's compliance with the requirements. That is, the contractor must (1) ensure that it and its subcontractors comply with the requirements of this CRD to the extent necessary to ensure the contractor's compliance and (2) only incur costs that would be incurred by a prudent person in the conduct of competitive business.</p> <p>The contractor must establish and maintain a documented emergency management program that implements the requirements of applicable Federal, State, and local laws, regulations, and ordinances for fundamental worker safety programs (e.g., fire, safety, and security). See Attachment 3, "Emergency Management Core Program."</p> <p>In addition to the requirements set forth in this CRD, contractors are responsible for complying with applicable Attachments 2, 3, 4, 5, and 6 to DOE O 151.1D referenced in and made part of this CRD and which provide program requirements and/or information applicable to contracts in which this CRD is inserted. References to a DOE directive in this CRD or in its attachments refer to the CRD associated with the referenced DOE directive.</p> <p>Contractors may meet the requirements of this order by implementing nationally recognized standards or host institutions applicable standards, with prior approval through the formal equivalency and exemption process; see section 3.c.(1) of this order.</p>	X	X	X	X	X		X	
05.00.011	DOEO153.1	Att. 2(1)	<p>Regardless of the performer of the work, the contractor is responsible for complying with this Contractor Requirements Document (CRD) and flowing down CRD requirements to subcontractors at any tier to the extent necessary to ensure contractor compliance.</p> <p>Any event-specific supplemental plans and procedures developed must also comply with this CRD.</p>						(+) RAP	X	

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				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.01.001	DOEO150.1A	Att.1.2.a	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: a. develop a COOP or business continuity plan that documents their program;	X	X	X	X	X		X	
05.01.002	DOEO150.1A	Att.1.2.b	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: b. provide an electronic copy of the approved plan(s) to the appropriate field element manager, including annual reviews and updates;	X	X	X	X	X		X	
05.01.003	DOEO150.1A	Att.1.2.c	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: c. identify essential functions/activities that support the essential functions;	X	X	X	X	X		X	
05.01.004	DOEO150.1A	Att.1.2.d	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: d. provide for planning to ensure the capability exists for performance of identified essential functions/activities;	X	X	X	X	X		X	
05.01.005	DOEO150.1A	Att.1.2.e	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: e. ensure identification, evaluation, and assessment of potential risks to the MEFs that can include existing risk and hazard assessments, as applicable;	X	X	X	X	X		X	
05.01.006	DOEO150.1A	Att.1.2.f	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: f. provide for the planning and implementation of plans that address infectious disease/pandemic influenza, cyber threats, and work for others;	X	X	X	X	X		X	
05.01.007	DOEO150.1A	Att.1.2.g	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: g. perform a documented, annual review of essential functions, to ensure any organizational changes are reflected in the current list of essential functions;	X	X	X	X	X		X	
05.01.008	DOEO150.1A	Att.1.2.h	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: h. identify a primary and an alternate COOP coordinator to administer the COOP program and serve as the points of contact;	X	X	X	X	X		X	

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05.01.009	DOEO150.1A	Att.1.2.i	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: i. provide for internal procedures for executing essential functions that have been devolved from the Department's headquarters (HQ) or field elements;	X	X	X	X	X		X	
05.01.010	DOEO150.1A	Att.1.2.j	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: j. identify and train Continuity Emergency Response Group members for executing essential functions during a continuity event;	X	X	X	X	X		X	
05.01.011	DOEO150.1A	Att.1.2.k	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: k. establish a decision matrix or methodology for determining when to activate the COOP program and to what extent;	X	X	X	X	X		X	
05.01.012	DOEO150.1A	Att.1.2.l	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: l. establish orders of succession, with accompanying delegations of authority, in the event a disruption renders leadership unable, unavailable, or incapable of assuming their duties and responsibilities. Orders of succession must include at least three potential successors, if practical;	X	X	X	X	X		X	
05.01.013	DOEO150.1A	Att.1.2.m	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: m. provide for predetermined delegations of authority for policy determinations and decisions that can take effect when normal channels of direction are disrupted;	X	X	X	X	X		X	
05.01.014	DOEO150.1A	Att.1.2.n	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: n. analyze the need for an alternate operating facility (AOF), and if required, identify and provide AOFs with capabilities for performing essential functions;	X	X	X	X	X		X	
05.01.015	DOEO150.1A	Att.1.2.o	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: o. identify and provide for necessary continuity communications to perform essential functions;	X	X	X	X	X		X	

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05.01.016	DOEO150.1A	Att.1.2.p	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: p. provide for notifications to HQ using the Continuity Status Reporting form for a site activation of a continuity event as well for HQ activation;	X	X	X	X	X		X	
05.01.017	DOEO150.1A	Att.1.2.q	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: q. identify essential records necessary to perform essential functions/activities and ensure those essential records are available at the AOF, as required by DOE O 243.1B, Records Management Program;	X	X	X	X	X		X	
05.01.018	DOEO150.1A	Att.1.2.r	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: r. define methods of and provide capabilities for notification of and communication with employees, continuity facilities, and support teams;	X	X	X	X	X		X	
05.01.019	DOEO150.1A	Att.1.2.s	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: s. establish a personnel accountability program for use during a continuity event;	X	X	X	X	X		X	
05.01.020	DOEO150.1A	Att.1.2.t	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: t. provide a training, testing, and exercise program to verify the office-/site-/contractor-specific essential functions/activities can be accomplished in a continuity event;	X	X	X	X	X		X	
05.01.021	DOEO150.1A	Att.1.2.u	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: u. conduct an annual continuity exercise, which may be combined with another exercise, which has continuity objectives;	X	X	X	X	X		X	
05.01.022	DOEO150.1A	Att.1.2.v	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: v. conduct an annual COOP awareness briefing for the contractor workforce who may have a role or responsibility during a continuity event;	X	X	X	X	X		X	

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05.01.023	DOEO150.1A	Att.1.2.w	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: w. provide for a Mission Readiness Program, including a COOP corrective action program and a lessons learned program, and submit a Continuity Readiness Assurance Report to the appropriate field element and HQ program office. NOTE: The Mission Readiness Program may be part of another Readiness Assurance Program and the report may be submitted as part of the Emergency Readiness Assurance Report;	X	X	X	X	X		X	
05.01.024	DOEO150.1A	Att.1.2.x	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: x. conduct an annual self-assessment of COOP or business continuity plans; and	X	X	X	X	X		X	
05.01.025	DOEO150.1A	Att.1.2.y	2. SPECIFIC REQUIREMENTS. The contractor program, specifically within their COOP program, must: y. ensure that reviews for classified and controlled unclassified information are conducted as required. If the site/facility/activity generates classified or controlled unclassified information (i.e., Unclassified Controlled Nuclear Information (UCNI) or Official Use Only (OUO) information), or is conducting operations that are classified or identified as UCNI or OUO, then all COOP plans, procedures, scenarios, and assessments must be reviewed for classified information, UCNI, or OUO information by a Derivative Classifier, UCNI Reviewing Official, or by the PSO (for reviews of OUO), as appropriate, for the type of information in the document. Documents not otherwise determined to be classified or UCNI must be identified as OUO and handled accordingly.	X	X	X	X	X		X	

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05.02.001	DOEO151.1D	Att. 3. 1.a.	<p>1. PROGRAM ADMINISTRATION AND MANAGEMENT. Program administration and management must be established to provide effective organizational management and administrative control of the site/facility/activity emergency management program by establishing and maintaining authorities and resources necessary to plan, develop, implement, and maintain a viable, integrated, and coordinated Comprehensive Emergency Management System. DOE federal and contractor managers responsible for DOE sites/facilities/activities must—</p> <p>a. Designate an individual to administer the emergency management program. This individual must –</p> <p>(1) be responsible for and have authority for day-to-day operation and maintenance of the emergency management program;</p> <p>(2) have access to management personnel who have authority for site/facility/activity-level resources and operations;</p> <p>(3) brief senior leadership on the emergency management program and their expected roles and responsibilities during an emergency. This briefing must be conducted initially and when changes occur that modify their roles and responsibilities;</p> <p>(4) ensure emergency management planning is integrated with other applicable programs and associated documents (e.g., Baseline Needs Assessment, Site Security Plan, Cybersecurity Plan, and Continuity of Operations Plan, Documented Safety Analysis, Threat and Hazard Identification and Risk Assessment Guide);</p> <p>(5) oversee implementation of the emergency management plan in accordance with the requirements of this Order;</p> <p>(6) approve and/or concur on planning documents addressing the program elements listed below in paragraph 1.a.(7); and</p> <p>(7) ensure the emergency management program addresses the following elements of the Emergency Management Core Program.</p> <p>(a) Program Management and Administration</p> <p>(b) All-Hazards Planning Basis</p> <p>(c) Emergency Response Organization</p> <p>(d) Emergency Operations System</p> <p>(e) Training and Drills</p> <p>(f) Emergency Medical Support</p> <p>(g) Offsite Response Interfaces</p> <p>(h) Emergency Categorization</p> <p>(i) Protective Actions</p> <p>(j) Emergency Facilities and Equipment/Systems</p> (continued on next page)	X	X	X	X	X			X	

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05.02.001	DOEO151.1D	Att. 3. 1.a.	(con't) (k) Notifications and Communications (l) Emergency Public Information (m) Termination and Recovery (n) Readiness Assurance (o) Consequence Assessment	X	X	X	X	X		X	
05.02.002	DOEO151.1D	Att. 3. 1.b.	1. PROGRAM ADMINISTRATION AND MANAGEMENT. DOE federal and contractor managers responsible for DOE sites/facilities/activities must— b. In addition to the requirements of the Emergency Management Core Program, implement the emergency management program requirements contained in Attachments 4, 5, and 6 of this Order for those sites/facilities/activities to which they apply. (1) Attachment 4, Emergency Management Hazardous Material Program. This attachment contains additional requirements for sites/facilities/activities with hazards that are not screened out by the Hazardous Materials Screening process [Attachment 3, 2.b.(5)]. (2) Attachment 5, Secure Transportation. This attachment contains specific emergency management program requirements for the activities performed by the Office of Secure Transportation. (3) Attachment 6, Energy Emergency Response Support. This attachment contains requirements for the Departmental elements supporting national energy emergency response and all-hazards incident national level response as reflected in the Energy Emergency and Emergency Assistance Programs, respectively. Note: Att. 3. 1.b. (2) and (3) are not applicable to the Liquid Waste Contractor.	X	X	X	X	X		X	
05.02.003	DOEO151.1D	Att. 3. 1.c.	1. PROGRAM ADMINISTRATION AND MANAGEMENT. DOE federal and contractor managers responsible for DOE sites/facilities/activities must— c. Develop and maintain an all-hazards emergency management plan. The emergency management plan must be – (1) reviewed and documented annually, and updated, if appropriate, and approved no less than every three years; (2) updated if there are significant changes to the program plan (i.e., changes to organization structure, Emergency Planning Zones, etc.); and (3) submitted to the Field Element Manager or appropriate Federal Manager for approval.	X	X	X	X	X		X	

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05.02.004	DOEO151.1D	Att. 3. 1.d.	1. PROGRAM ADMINISTRATION AND MANAGEMENT. DOE federal and contractor managers responsible for DOE sites/facilities/activities must— d. Develop and maintain procedures that describe how the emergency management plan must be implemented and maintained.	X	X	X	X	X		X	
05.02.005	DOEO151.1D	Att. 3. 1.e.	1. PROGRAM ADMINISTRATION AND MANAGEMENT. DOE federal and contractor managers responsible for DOE sites/facilities/activities must— e. Use a controlled document system for the emergency management plan and related procedures and documentation.	X	X	X	X	X		X	
05.02.006	DOEO151.1D	Att. 3. 1.f.	1. PROGRAM ADMINISTRATION AND MANAGEMENT. DOE federal and contractor managers responsible for DOE sites/facilities/activities must— f. Identify a process for review, approval, and distribution of the emergency management plan and related procedures and documentation.	X	X	X	X	X		X	
05.02.007	DOEO151.1D	Att. 3. 1.g.	1. PROGRAM ADMINISTRATION AND MANAGEMENT. DOE federal and contractor managers responsible for DOE sites/facilities/activities must— g. Develop and maintain agreements for the transport, acceptance, and treatment of potentially contaminated injured personnel, as applicable (see paragraph 6 of this Attachment).	X	X	X	X	X		X	
05.02.008	DOEO151.1D	Att. 3. 1.h.	1. PROGRAM ADMINISTRATION AND MANAGEMENT. DOE federal and contractor managers responsible for DOE sites/facilities/activities must— h. Address interoperability, integration, and interface with jurisdictional responders for severe incidents with regional impacts.	X	X	X	X	X		X	
05.02.009	DOEO151.1D	Att. 3. 1.i.	1. PROGRAM ADMINISTRATION AND MANAGEMENT. DOE federal and contractor managers responsible for DOE sites/facilities/activities must— i. Review emergency management documents for classified information and Controlled Unclassified Information.	X	X	X	X	X		X	
05.02.010	DOEO151.1D	Att. 3. 1.j.	1. PROGRAM ADMINISTRATION AND MANAGEMENT. DOE federal and contractor managers responsible for DOE sites/facilities/activities must— j. Identify and maintain emergency operating vital records in accordance with 36 CFR Part 1236, Electronic Records Management.	X	X	X	X	X		X	

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				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.011	DOEO151.1D	Att. 3. 2.a.	<p>2. ALL HAZARDS PLANNING BASIS. All-Hazards Survey. An All-Hazards Survey must be performed by DOE federal and contractor staff responsible for DOE sites/facilities/activities. Its purpose is to identify all hazards that are applicable to the operation of that entity and establishes the planning basis for the emergency management program. Each All-Hazards Survey may cover single or multiple facilities or activities, or one All-Hazards Survey may cover an entire site. Each All-Hazards Survey must:</p> <p>a. Describe the applicable potential health, safety, or environmental impacts;</p>	X	X	X	X	X		X	
05.02.012	DOEO151.1D	Att. 3. 2.b.	<p>2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must:</p> <p>b. Identify the need for development of further planning and preparedness beyond the Emergency Management Core Program requirements that will apply to each type of hazard;</p>	X	X	X	X	X		X	
05.02.013	DOEO151.1D	Att. 3. 2.c.	<p>2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must:</p> <p>c. Be submitted for approval to the Field Element Manager or appropriate Federal Manager; and be updated every 3 years from date of issuance, and when there are significant changes to site/facility/activity operations or to hazardous material inventories. For example, significant changes may include new hazardous materials operations, recognition of hazards not previously identified, and changes that would result in a positive Unreviewed Safety Question for nuclear facilities, as defined in 10 CFR Part 830, Nuclear Facility Safety Management or in a positive Unreviewed Safety Issue for accelerator facilities, as defined in DOE O 420.2C, Safety of Accelerator Facilities. Changes that result in a reduction of hazards with no adverse effect on safety or emergency preparedness or response may be included in the next scheduled review and update.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.014	DOEO151.1D	Att. 3. 2.d.1.	2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must: d. Performing an All-Hazards Survey. The All-Hazard Survey must: (1) Address the following. (a) Natural hazards, which result from acts of nature, such as hurricanes, earthquakes, tornadoes, animal disease outbreak, pandemics, or epidemics. (b) Technological hazards, which result from accidents or the failures of systems and structures, such as hazardous materials releases, or dam failures. (c) Human-caused incidents, which result from an intentional or unintentional action, taken by person(s) or an adversary, such as a safety mishap or a threatened or actual chemical attack, biological attack, or cyber incident.	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req't Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.015	DOEO151.1D	Att. 3. 2.d.2.	<p>2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must:</p> <p>d. Performing an All-Hazards Survey. The All-Hazard Survey must: (2) Include conducting a Threat and Hazard Identification and Risk Assessment (THIRA) in accordance with the Department of Homeland Security, Comprehensive Preparedness Guide (CPG) 201, Threat and Hazard Identification and Risk Assessment Guide. Conduct this analysis using the CPG to identify potential hazards, threats, capability targets, and resources. The THIRA template (Appendix A of the CPG) shall be used to document and maintain the assessment.</p> <p>(a) This analysis and planning should include consequences with respect to hazardous material (e.g., petroleum, propane, etc.) overpressure (e.g., 1 psi) or radiant heat dose (e.g., second-degree burn) exposures from explosions or fires involving flammable inventories, including fuel oil and gases. Additionally, when "oil" is a part of a process containing or collocated with another hazardous material, it must be considered in the EPHA as a possible initiator or contributor for the release of that hazardous material.</p> <p>(b) Large scale storage inventories of fuel oil and gases (e.g., petroleum, propane, etc.) must be analyzed in the THIRA and addressed in emergency management planning using appropriate guidance.</p> <p>(c) Facility/activity emergency planning, preparedness, and response must take into account the hazards associated with explosives. 10 CFR 851 provides requirements for explosives safety. DOE-STD-1212-2012 provides additional information. A graded approach must be applied based on the explosive's Hazard/Division class.</p> <p>(d) A summary of the THIRA must be included in the annual Emergency Readiness Assurance Plans (ERAP) for submission to its Program Secretarial Officer and the Associate Administrator, Office of Emergency Operations.</p> <p>Notes: 1. Att. 3. 2.d.2.(b) and (c) are not applicable to the Liquid Waste Contractor. Att. 3. 2.d 2.(d) the Liquid Waste Contractor provides input to the Management and Operations Contractor for the Site ERAP that includes the THIRA summary and does not execute submission. 2. DOE-STD-2012-2012 has been superseded by DOE-STD-1212-2019.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.016	DOEO151.1D	Att. 3. 2.d.3.	<p>2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must:</p> <p>d. Performing an All-Hazards Survey. The All-Hazard Survey must: (3) Associate Administrator, Office of Emergency Operations must prepare a DOE Enterprise Threat and Hazard Risk Profile that incorporates the sites and facilities submitted THIRAs.</p> <p>Note: Not applicable to the Liquid Waste Contractor. Requirement is only applicable to the Department of Energy.</p>								
05.02.017	DOEO151.1D	Att. 3. 2.d.4.	<p>2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must:</p> <p>d. Performing an All-Hazards Survey. The All-Hazard Survey must: (4) For severe events, consider the reliance on local/regional offsite responders and how the site/facility/activity will handle severe incidents if these response resources are not available.</p>	X	X	X	X	X		X	
05.02.018	DOEO151.1D	Att. 3. 2.e.1.	<p>2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must:</p> <p>e. Hazardous material screening process. Must identify specific hazardous materials and quantities that, if released, could produce impacts consistent with the definition of an Operational Emergency. The potential release of these materials to the environment requires further analysis in an EPHA. The release of hazardous materials less than the quantities listed below does not require quantitative analysis in an EPHA. Categories to be considered under the All-Hazards Survey (as described in 2.d.(1)) include sites/facilities/activities with radiological materials, hazardous biological agents and toxins, and hazardous chemicals. (1) All hazardous materials (i.e., radiological, biological agent/toxin, chemical, and explosive) at a DOE site must be considered in the screening. (a) If the hazardous material at a site/facility/activity screens out by quantity or by exclusion from the screening – as described in paragraphs 2.e.(3) through 2.e.(7) – response plans must still be developed in accordance with paragraph 2.e.(2) below to address smaller scale incidents and emergencies. (b) If the hazardous material at a site/facility/activity does not screen out, and is not covered by the exclusions below, an Emergency Planning Hazards Assessment (EPHA) must be conducted. See Attachment 4, Emergency Management Hazardous Materials Program.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.019	DOEO151.1D	Att. 3. 2.e.2.	<p>2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must:</p> <p>e. Hazardous material screening process. Must identify specific hazardous materials and quantities that, if released, could produce impacts consistent with the definition of an Operational Emergency. The potential release of these materials to the environment requires further analysis in an EPHA. The release of hazardous materials less than the quantities listed below does not require quantitative analysis in an EPHA. Categories to be considered under the All-Hazards Survey (as described in 2.d.(1)) include sites/facilities/activities with radiological materials, hazardous biological agents and toxins, and hazardous chemicals.</p> <p>(2) Each hazardous material container and its associated process must be evaluated separately, unless one of the following conditions exists, in which case the total quantity of the hazardous material must be used when determining if it exceeds the applicable screening threshold:</p> <p>(a) Container is interconnected with other containers</p> <p>(b) Multiple containers are located within a facility such that a credible common event (excluding extreme malevolent acts and catastrophic release scenarios such as major fires, airplane crashes, and building collapse) could result in release of the contents of multiple containers.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.020	DOEO151.1D	Att. 3. 2.e.3.	<p>2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must:</p> <p>e. Hazardous material screening process. Must identify specific hazardous materials and quantities that, if released, could produce impacts consistent with the definition of an Operational Emergency. The potential release of these materials to the environment requires further analysis in an EPHA. The release of hazardous materials less than the quantities listed below does not require quantitative analysis in an EPHA. Categories to be considered under the All-Hazards Survey (as described in 2.d.(1)) include sites/facilities/activities with radiological materials, hazardous biological agents and toxins, and hazardous chemicals.</p> <p>(3) Exclusions</p> <p>(a) Materials used in the same form, quantity, and concentration as a product packaged for distribution and use by the general public (e.g., consumer products for household use).</p> <p>(b) Materials that because their physical form, or other factors (e.g., plausible dispersal mechanisms), do not present an airborne exposure hazard. This includes solid materials in a form with particle size > 10 microns and solid materials with no plausible release scenario to reduce the material to particles < 10 microns; liquids with a vapor (partial) pressure of <10 mmHg at 25oC; and aqueous solutions where the hazardous component(s) is a non-volatile solute.</p> <p>(c) Materials with a Globally Harmonized System (GHS) Acute Toxicity Hazard Category of 3, 4, or 5, if approved for site use by the FEM.</p> <p>(d) Solid or liquid materials with any GHS Corrosion/Irritation (skin or eye) Hazard Category, if approved for site use by the FEM.</p> <p>(e) Gaseous materials with a GHS Corrosion/Irritation (skin or eye) Category 2 or 3, if approved for site use by the FEM.</p> <p>(f) Explosives are excluded from further analysis in an EPHA, regardless of the facility designation (e.g., nuclear facility), provided the explosives are also screened through the Chemical screening criteria.</p>	X	X	X	X	X		X	

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S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.020	DOEO151.1D	Att. 3. 2.e.3.	(con't) (g) Radioactive materials that may be excluded include: sealed radioactive sources that are engineered to pass the special form testing specified by DOT or the American National Standards Institute; materials stored in DOT Type B shipping containers with overpack if the Certificates of Compliance are current and the materials stored are authorized by the Certificate; and, materials used in exempt, commercially available products. (h) Simple asphyxiants and cryogenic materials may be excluded as long as the material cannot impact collocated populations, but will be analyzed in the THIRA. (i) Fuel oil and gases (e.g., petroleum, propane, etc.) are excluded in the definition of hazardous materials used in this Order.	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.021	DOEO151.1D	Att. 3. 2.e.4.	<p>2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must:</p> <p>e. Hazardous material screening process. Must identify specific hazardous materials and quantities that, if released, could produce impacts consistent with the definition of an Operational Emergency. The potential release of these materials to the environment requires further analysis in an EPHA. The release of hazardous materials less than the quantities listed below does not require quantitative analysis in an EPHA. Categories to be considered under the All-Hazards Survey (as described in 2.d.(1)) include sites/facilities/activities with radiological materials, hazardous biological agents and toxins, and hazardous chemicals.</p> <p>(4) Radiological Materials: (a) Radioactive materials that require further analysis in an EPHA are those associated with a defined Hazard Category 1, 2, or 3 nuclear facility per 10 CFR Part 830, Nuclear Safety Management; specifically those materials contributing to the categorization of such a facility when in quantities greater than the largest Category 3 value (or if the sum of the ratios) exceeds any of the following: 1 DOE-STD-1027-92, Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Security Analysis Reports; 2 NA-1 SD G 1027, Change Notice 1, on Using Release Fraction and Modern Dosimetry Information Consistently with DOE STD 1027-92, Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Safety Analysis Reports, dated 11-28-11. 3 LA-12981-MS, Table of DOE-STD-1017-92 Hazard Category 3 Threshold Quantities for the ICRP-30 List of 757 Radionuclides, Los Alamos National Laboratory (LANL) Fact Sheet, 2002. 4 LA-12846-MS, Specific Activities and DOE-STD-1027-92 Hazard Category 2 Thresholds, LANL Fact Sheet, 1994. (b) Those materials associated with a facility/activity being defined as an accelerator per DOE O 420 2C, Safety of Accelerator Facilities may be screened out if analysis indicates that all incidents would be classified as less than an Alert.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.022	DOEO151.1D	Att. 3. 2.e.5.	<p>2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must:</p> <p>e. Hazardous material screening process. Must identify specific hazardous materials and quantities that, if released, could produce impacts consistent with the definition of an Operational Emergency. The potential release of these materials to the environment requires further analysis in an EPHA. The release of hazardous materials less than the quantities listed below does not require quantitative analysis in an EPHA. Categories to be considered under the All-Hazards Survey (as described in 2.d.(1)) include sites/facilities/activities with radiological materials, hazardous biological agents and toxins, and hazardous chemicals.</p> <p>(5) Hazardous Biological Agents and Toxins: (a) Identify hazardous biological agents and toxins including Federally regulated agents and toxins identified in lists published in Department of Health and Human Services regulations [42 CFR Part 73, Select Agents and Toxins] and Department of Agriculture regulations [7 CFR Part 331, Possession, Use and Transfer of Select Agents and Toxins and 9 CFR Part 121, Possession, Use and Transfer of Select Agents and Toxins]. (b) Analyze further in an EPHA if these materials are present if exceeding the minimum quantities specified to be federally regulated.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.023	DOEO151.1D	Att. 3. 2.e.6.	<p>2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must:</p> <p>e. Hazardous material screening process. Must identify specific hazardous materials and quantities that, if released, could produce impacts consistent with the definition of an Operational Emergency. The potential release of these materials to the environment requires further analysis in an EPHA. The release of hazardous materials less than the quantities listed below does not require quantitative analysis in an EPHA. Categories to be considered under the All-Hazards Survey (as described in 2.d.(1)) include sites/facilities/activities with radiological materials, hazardous biological agents and toxins, and hazardous chemicals.</p> <p>(6) Chemicals: (a) All chemicals in a facility/activity with known or suspected toxic properties must be subjected to a hazardous material screening process. (b) Chemicals that may be excluded from further analysis in an EPHA include: materials used in the same form, quantity, and concentration as a product packaged for distribution and use by the general public; materials that have a Health Hazard rating of 0, 1 or 2 based on NFPA 704; or solid or liquid materials that, because of their physical form or other factors (e.g., plausible dispersal mechanisms), do not present an airborne exposure hazard. (c) Chemical hazardous materials that require further analysis in an EPHA include chemicals with an assigned Health Hazard rating of 3 or 4 based on National Fire Protection Association (NFPA) 704 in quantities greater than a quantity that can be "easily and safely manipulated by one person" [see 29 CFR 1910.1450(b)]. Chemicals without an assigned Health Hazard rating require further analysis in an EPHA if the quantity is greater than a quantity that can be "easily and safely manipulated by one person." Quantities of chemical hazardous materials considered to be "easily and safely manipulated by one person" can be locally-determined in accordance with the provisions of 29 CFR 1910.1450(b). (d) Ordinary products of combustion (e.g., carbon monoxide, hydrogen cyanide, etc. that are released in fires involving hydrocarbons, building components, wood, plastic, etc.), are exempt from analysis when associated with a scenario involving a combustion event.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.024	DOEO151.1D	Att. 3. 2.e.7.	2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must: e. Hazardous material screening process. Must identify specific hazardous materials and quantities that, if released, could produce impacts consistent with the definition of an Operational Emergency. The potential release of these materials to the environment requires further analysis in an EPHA. The release of hazardous materials less than the quantities listed below does not require quantitative analysis in an EPHA. Categories to be considered under the All-Hazards Survey (as described in 2.d.(1)) include sites/facilities/activities with radiological materials, hazardous biological agents and toxins, and hazardous chemicals. (7) Chemical wastes require further analysis if the storage quantities exceed those above and the concentration is comparable to that which would require such a similar classification (i.e., very dilute and chemically neutralized chemical waste does not require a further analysis).	X	X	X	X	X		X	
05.02.025	DOEO151.1D	Att. 3. 2.f.	2. ALL HAZARDS PLANNING BASIS. Each All-Hazards Survey must: f. General Duty. If, based on the THIRA and the professional judgment of the person(s) performing or approving the All-Hazards Survey, it is determined that additional analysis and planning is warranted, the FEM will determine and document if an additional EPHA will be performed.	X	X	X	X	X		X	
05.02.026	DOEO151.1D	Att. 3. 3.a.	3. EMERGENCY RESPONSE ORGANIZATION. An Emergency Response Organization (ERO) is a structured organization with overall responsibility for initial and ongoing emergency response. At a minimum, an ERO must – a. be established and maintained for each DOE site/facility/activity;	X	X	X	X	X		X	
05.02.027	DOEO151.1D	Att. 3. 3.b.	3. EMERGENCY RESPONSE ORGANIZATION. An Emergency Response Organization (ERO) is a structured organization with overall responsibility for initial and ongoing emergency response. At a minimum, an ERO must – b. consist of personnel with capabilities and resources based on the all hazards planning basis;	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.028	DOEO151.1D	Att. 3. 3.c.	3. EMERGENCY RESPONSE ORGANIZATION. An Emergency Response Organization (ERO) is a structured organization with overall responsibility for initial and ongoing emergency response. At a minimum, an ERO must – c. assign an individual ERO position with the authority to implement the site/facility/activity emergency management plan to include management and control of all aspects of the site/facility/activity response;	X	X	X	X	X		X	
05.02.029	DOEO151.1D	Att. 3. 3.d.	3. EMERGENCY RESPONSE ORGANIZATION. An Emergency Response Organization (ERO) is a structured organization with overall responsibility for initial and ongoing emergency response. At a minimum, an ERO must – d. designate and train a primary and at least one alternate for each ERO position, excluding first responders in the field, to be available to implement the emergency management plan for initial and ongoing emergency response;	X	X	X	X	X		X	
05.02.030	DOEO151.1D	Att. 3. 3.e.	3. EMERGENCY RESPONSE ORGANIZATION. An Emergency Response Organization (ERO) is a structured organization with overall responsibility for initial and ongoing emergency response. At a minimum, an ERO must – e. establish an effective first responder capability to mitigate all hazard emergencies including emergency medical, fire, hazard material, and applicable rescue emergencies as derived through the Baseline Needs Assessment, Hazard Survey, and THIRA. The site/facility/activity shall be capable of managing the first operating period of emergency events of Type 4 complexity as defined by the National Incident Management System (NIMS).	X	X	X	X	X		X	
05.02.031	DOEO151.1D	Att. 3. 3.f.	3. EMERGENCY RESPONSE ORGANIZATION. An Emergency Response Organization (ERO) is a structured organization with overall responsibility for initial and ongoing emergency response. At a minimum, an ERO must – f. establishes mechanisms, consistent with NIMS, for expanding the initial response capability when local resources are no longer adequate to control the emergency incident;	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.032	DOEO151.1D	Att. 3. 3.g.	3. EMERGENCY RESPONSE ORGANIZATION. An Emergency Response Organization (ERO) is a structured organization with overall responsibility for initial and ongoing emergency response. At a minimum, an ERO must – g. establish control at the event/incident scene in accordance with the Incident Command System (ICS) portion of the National Incident Management System (NIMS) or integrate ERO activities with those of local and federal agencies and organizations that provide onsite emergency response services in accordance with ICS/NIMS; and	X	X	X	X	X		X	
05.02.033	DOEO151.1D	Att. 3. 3.h.	3. EMERGENCY RESPONSE ORGANIZATION. An Emergency Response Organization (ERO) is a structured organization with overall responsibility for initial and ongoing emergency response. At a minimum, an ERO must – h. provide designated ERO members with a method of identification for access to assigned emergency response consistent with NIMS/ICS.	X	X	X	X	X		X	
05.02.034	DOEO151.1D	Att. 3. 4.a.	4. EMERGENCY OPERATIONS SYSTEM. DOE sites/facilities/activities must have an Emergency Operations System to provide centralized collection, validation, analysis and coordination of information related to an emergency. The Emergency Operations System supports on-scene response during an escalating incident by relieving the burden of site-level and external communication and securing additional resources needed for the response. It does not provide tactical direction to the Incident Commander in the field. This can be satisfied through an established EOC. DOE sites/facilities/activities must accomplish the following. a. Establish an Emergency Operations System to provide strategic management, operational support, planning/intelligence, logistics and finance/administration.	X	X	X	X	X		X	
05.02.035	DOEO151.1D	Att. 3. 4.b.1.	4. EMERGENCY OPERATIONS SYSTEM. DOE sites/facilities/activities must accomplish the following. b. The Emergency Operations System must be able to perform the following capabilities. (1) Establish and maintain an overall responsibility for supporting and coordinating the response to an emergency.	X	X	X	X	X		X	

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S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.036	DOEO151.1D	Att. 3. 4.b.2.	4. EMERGENCY OPERATIONS SYSTEM. DOE sites/facilities/activities must accomplish the following. b. The Emergency Operations System must be able to perform the following capabilities. (2) Use the basic NIMS/ICS concepts of common terminology, management unity and delegation of authority, managing by objectives, manageable span of control, and action planning.	X	X	X	X	X		X	
05.02.037	DOEO151.1D	Att. 3. 4.b.3.	4. EMERGENCY OPERATIONS SYSTEM. DOE sites/facilities/activities must accomplish the following. b. The Emergency Operations System must be able to perform the following capabilities. (3) Activate for any declared Operational Emergency impacting the DOE site/facility/activity, or may activate for other significant incidents and planned events when emergency management and leadership decides support operations would be advantageous to the successful management of the incident/event.	X	X	X	X	X		X	
05.02.038	DOEO151.1D	Att. 3. 4.b.4.	4. EMERGENCY OPERATIONS SYSTEM. DOE sites/facilities/activities must accomplish the following. b. The Emergency Operations System must be able to perform the following capabilities. (4) Be scaled to the level of activation based on the severity of the incident. Staffing and functions must be performed as identified in the emergency management plan.	X	X	X	X	X		X	
05.02.039	DOEO151.1D	Att. 3. 4.b.5.	4. EMERGENCY OPERATIONS SYSTEM. DOE sites/facilities/activities must accomplish the following. b. The Emergency Operations System must be able to perform the following capabilities. (5) Provide support to the Incident Commander and have the ability to maintain support status under emergency conditions for an extended period based upon the All-Hazards Survey.	X	X	X	X	X		X	

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S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.040	DOEO151.1D	Att. 3. 4.b.6.	<p>4. EMERGENCY OPERATIONS SYSTEM. DOE sites/facilities/activities must accomplish the following.</p> <p>b. The Emergency Operations System must be able to perform the following capabilities. (6) Use standard operating procedures and checklists to – (a) activate the Emergency Operations System, identify and notify staff, make it operational, and deactivate it; (b) establish communications and coordination with incident command; (c) obtain and maintain situational awareness and disseminate a Common Operating Picture among response components and external partners, as applicable; and (d) develop plans to support – 1 operations by defining overall priorities; 2 establishing operational objectives; 3 establishing personnel accountability; and 4 establishing the Operational Period for the ERO staffing shift changes.</p>	X	X	X	X	X		X	
05.02.041	DOEO151.1D	Att. 3. 5.a.1.	<p>5. TRAINING AND DRILLS. A comprehensive, coordinated, and documented program of training and drills must be an integral part of the emergency program to ensure that preparedness activities for establishing and maintaining program-specific emergency response capabilities are accomplished. DOE sites/facilities/activities must:</p> <p>a. Worker Training. (1) Document and provide training to workers on hazards and protective actions they may be expected to take in accordance with the all-hazards planning basis. For those workers who are likely to witness a hazardous material release, the training must include notification of the release to proper authorities.</p>	X	X	X	X	X		X	
05.02.042	DOEO151.1D	Att. 3. 5.a.2.	<p>5. TRAINING AND DRILLS. DOE sites/facilities/activities must:</p> <p>a. Worker Training. (2) This training must be provided and documented initially and when there are changes affecting worker actions or responsibilities, and refresher training must be provided biennially. If a protective action is performed successfully during a drill, exercise, or actual event, the annual training requirement is met for that protective action.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req't Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.043	DOEO151.1D	Att. 3. 5.a.3.	5. TRAINING AND DRILLS. DOE sites/facilities/activities must: a. Worker Training. (3) Provide information on protective actions to visitors who have unescorted access.	X	X	X	X	X		X	
05.02.044	DOEO151.1D	Att. 3. 5.a.4.	5. TRAINING AND DRILLS. DOE sites/facilities/activities must: a. Worker Training. (4) Determine based upon the all hazards planning basis if additional training must be provided to workers to address response actions that may be necessary for severe events with regional impacts when the site/facility/activity may be isolated from offsite response assistance and infrastructure support. This training may consist of self-help strategies, such as first-aid, and the location of onsite medical and life sustaining supplies and procedures for all identified protective actions.	X	X	X	X	X		X	
05.02.045	DOEO151.1D	Att. 3. 5.a.5.	5. TRAINING AND DRILLS. DOE sites/facilities/activities must: a. Worker Training. (5) Determine based upon the results of the all hazards planning basis if additional training must be provided to workers at specific facilities. This training may consist of facility-specific procedures for safe shutdown/walk-away provisions and/or facility-specific response steps to take when there are disruptions to critical infrastructure (e.g., power and communications).	X	X	X	X	X		X	
05.02.046	DOEO151.1D	Att. 3. 5.b.1.	5. TRAINING AND DRILLS. DOE sites/facilities/activities must: b. ERO Training. (1) Develop a training and qualification program to establish and maintain specific emergency response capabilities as determined by the all hazards planning basis. Document the training requirements to include the courses, method of instructions, frequency, and intended audience. Assess ERO member's proficiency at least annually.	X	X	X	X	X		X	
05.02.047	DOEO151.1D	Att. 3. 5.b.2.	5. TRAINING AND DRILLS. DOE sites/facilities/activities must: b. ERO Training. (2) ERO training must be provided initially and when there are significant changes to expected emergency response capabilities. Refresher training must be provided no less than annually.	X	X	X	X	X		X	

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S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.050	DOEO151.1D	Att. 3. 5.d.	<p>5. TRAINING AND DRILLS. DOE sites/facilities/activities must:</p> <p>d. Worker Drills. (1) Conduct building evacuation drills at least annually, or consistent with frequency in applicable NFPA standards, and state or local regulations. Evacuation drills must also be conducted after substantial changes are made to a building that change evacuation procedures/pathways. (2) Based upon the results of the all hazards planning basis, determine if additional drills and the frequency of such drills should be conducted for other protective actions that workers may be expected to take. These drills may include facility-specific procedures for safe shutdown/walk-away provisions and facility-specific response steps to take when there are disruptions to critical infrastructure.</p> <p>Modified for the Liquid Waste Contractor use: (1) Conduct building evacuation drills consistent with frequency in applicable NFPA standards, and state or local regulations. Evacuation drills must also be conducted after substantial changes are made to a building that changes evacuation procedures/pathways.</p>	X	X	X	X	X		X	
05.02.051	DOEO151.1D	Att. 3. 5.e.	<p>5. TRAINING AND DRILLS. DOE sites/facilities/activities must:</p> <p>e. ERO Drills. DOE sites/facilities/activities must accomplish the following. (1) Conduct and document drills so that each ERO member participates at least annually. This may be accomplished by participation in a drill, exercise, or actual incident. Additionally, emergency response personnel (e.g., fire, HAZMAT, emergency medical services) that perform essentially the same functions on an ERO as they do on a day-to-day basis, demonstrate proficiency doing their everyday jobs. (2) Capture improvements and lessons learned to make program improvements to training and drills. (3) Use drill scenarios that are representative of the hazards/threats identified in the all-hazards planning basis. Such drills should be conducted for demonstration of capabilities.</p>	X	X	X	X	X		X	

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S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.056	DOEO151.1D	Att. 3. 7.	<p>7. OFFSITE RESPONSE INTERFACES. DOE sites/facilities/activities must establish and maintain interfaces with local, state, tribal, and federal organizations responsible for emergency response or who may be used to supplement response capabilities based on threats/hazards identified in the all hazards planning basis to include planning for severe events. DOE sites/facilities/activities must accomplish the following activities with offsite response organizations.</p> <p>a. See paragraphs 5c and 5f of this Attachment for information to be provided to offsite first responders. b. Determine access protocols for routine, abnormal, and emergency conditions. c. Establish a process for communications for use during onsite response. d. Establish a process to coordinate emergency public information during an incident involving response by the offsite responder(s) for incidents that may affect or be of interest to the media and public. See paragraph 12.</p> <p>Note: Not applicable to the Liquid Waste Contractor.</p>								
05.02.057	DOEO151.1D	Att. 3. 8.a.	<p>8. EMERGENCY CATEGORIZATION.</p> <p>a. DOE sites/facilities must declare an Operational Emergency when incidents occur that represent a significant degradation in the level of safety at a site/facility resulting in potential health and safety hazards to workers or the public.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

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				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.058	DOEO151.1D	Att. 3. 8.b.1.	<p>8. EMERGENCY CATEGORIZATION.</p> <p>b. Operational Emergencies must be categorized as promptly as possible, but no later than 15 minutes after identification by the predetermined decision maker for the categorization, in accordance with the emergency management plan, but no more than 30 minutes from initial discovery. Such incidents include the following:</p> <p>(1) Health and Safety. The following incidents or conditions represent, cause, or have the potential to cause serious health and safety impacts to workers or members of the public.</p> <p>(a) The discovery of radioactive or other hazardous material contamination from past DOE operations that may have caused, is causing, or may reasonably be expected to cause uncontrolled personnel exposures exceeding protective action criteria (PAC).</p> <p>(b) An occurrence (e.g. earthquake, tornado, aircraft crash, fire, explosion, or incidents in table 3-1) that causes significant structural damage to DOE facilities, with confirmed or suspected personnel injury or death.</p> <p>(c) Any mass casualty incident, as determined and documented by the site.</p> <p>(d) A criticality event.</p> <p>(e) An offsite hazardous material incident not associated with DOE operations that is observed to have, or is predicted to have, an impact onsite such that protective actions are required for DOE workers.</p> <p>Note: Att. 3. 8.b.1.(c), (d), and (e) are not applicable to the Liquid Waste Contractor.</p>	X	X	X	X	X		X	
05.02.059	DOEO151.1D	Att. 3. 8.b.2.	<p>8. EMERGENCY CATEGORIZATION.</p> <p>b. Operational Emergencies must be categorized as promptly as possible, but no later than 15 minutes after identification by the predetermined decision maker for the categorization, in accordance with the emergency management plan, but no more than 30 minutes from initial discovery. Such incidents include the following:</p> <p>(2) Environment. The following incidents or conditions represent, cause, or have the potential to cause serious detrimental effects on the environment: Any actual or potential release of hazardous material or regulated pollutant to the environment that could result in significant offsite consequences, such as major wildlife kills, wetland degradation, aquifer contamination, or the need to secure downstream water supply intakes.</p>	X	X	X	X	X		X	

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S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.062	DOEO151.1D	Att. 3. 8.b.5.	<p>8. EMERGENCY CATEGORIZATION.</p> <p>b. Operational Emergencies must be categorized as promptly as possible, but no later than 15 minutes after identification by the predetermined decision maker for the categorization, in accordance with the emergency management plan, but no more than 30 minutes from initial discovery. Such incidents include the following:</p> <p>(5) Safeguards and Security. Security incidents are also subject to reporting in accordance with DOE O 470.4B, Administrative Change 1, Safeguards and Security Program or other directives as applicable. Per this Order, foreign involvement in security incidents must be reported to the Counterintelligence Directorate within the Office of Intelligence and Counterintelligence. The following incidents or conditions represent, cause, or have the potential to cause degradation of security or safeguards conditions with actual or potential direct harm to people or the environment. Security and Safeguard Operational Emergencies include:</p> <p>(a) Unplanned detonation of an explosive device or a credible threat of detonation resulting from the location of a confirmed or suspected explosive device.</p> <p>(b) An actual terrorist attack, active threat (e.g., armed assault), cyber security incident that impacts critical infrastructure, or sabotage incident involving a DOE site/facility/activity.</p> <p>(c) Kidnapping or taking hostage(s) involving a DOE site/facility/activity.</p> <p>Note: Not applicable to the Liquid Waste Contractor.</p>								
05.02.063	DOEO151.1D	Att. 3. 8.c.	<p>8. EMERGENCY CATEGORIZATION.</p> <p>c. Emergencies, once categorized, must not be downgraded to a lower significance category unless the original categorization was incorrect. An event determined to be an emergency will remain so until the emergency response is terminated. In general, the emergency classification (i.e., Alert, Site Area Emergency, or General Emergency) should not be downgraded until termination of the event. However, emergency classification must be reviewed periodically to ensure the classification is commensurate with response activities.</p>	X	X	X	X	X		X	

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S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.064	DOEO151.1D	Att. 3. 9.	<p>9. PROTECTIVE ACTIONS. DOE sites/facilities/activities must identify protective actions commensurate for the potential hazards of the site/facility/activity and maintain procedures for prompt issuance of protective actions to workers. Protective actions must be predetermined and serve to minimize emergency-related consequences and maximize life safety and health. DOE sites/facilities/activities must accomplish the following.</p> <p>a. Develop pre-determined protective actions for hazards/threats identified in the all hazards planning basis. b. Develop a process to issue protective actions. c. Develop a procedure to account for employees. d. Consider whether additional protective actions are needed for severe incidents, such as self-help instructions when the site/facility/activity is isolated from outside response assistance and evacuation of the site/facility/activity when conditions are deteriorating.</p>	X	X	X	X	X		X	
05.02.065	DOEO151.1D	Att. 3.10.a.	<p>10. EMERGENCY FACILITIES AND EQUIPMENT/SYSTEMS. DOE sites/facilities/activities are responsible for the provision of adequate emergency facilities and equipment/systems commensurate with the associated hazards/threats identified in the all hazards planning basis. Equipment must be maintained and tested, as applicable, to ensure equipment functions as designed for emergency response and implementation of protective actions based upon the all hazards planning basis.</p> <p>a. Personal Protective Equipment. (1) DOE sites/facilities/activities must provide appropriate personal protective equipment (PPE) to emergency responders commensurate to the hazards present in the working environment. (2) DOE sites/facilities/activities must identify in the emergency management plan, or other documentation, caches of specialty equipment, (e.g., PPE, stretchers, evacuation chairs, and self-rescuers for underground facilities) that may be required if an emergency occurs.</p>	X	X	X	X	X		X	

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				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.066	DOEO151.1D	Att. 3.10.b.	<p>10. EMERGENCY FACILITIES AND EQUIPMENT/SYSTEMS. DOE sites/facilities/activities are responsible for the provision of adequate emergency facilities and equipment/systems commensurate with the associated hazards/threats identified in the all hazards planning basis. Equipment must be maintained and tested, as applicable, to ensure equipment functions as designed for emergency response and implementation of protective actions based upon the all hazards planning basis.</p> <p>b. Communications Equipment. DOE site/facility/activity must have an emergency notification system capable of providing immediate notification and protective actions to affected employees but no later than 10 minutes after the protective actions have been identified in accordance with the emergency management plan and related procedures. Communications equipment must be tested annually, or more frequently as necessary for the notification system (e.g. post-maintenance testing, communication equipment upgrades, etc.).</p>	X	X	X	X	X		X	
05.02.067	DOEO151.1D	Att. 3.10.c.	<p>10. EMERGENCY FACILITIES AND EQUIPMENT/SYSTEMS. DOE sites/facilities/activities are responsible for the provision of adequate emergency facilities and equipment/systems commensurate with the associated hazards/threats identified in the all hazards planning basis. Equipment must be maintained and tested, as applicable, to ensure equipment functions as designed for emergency response and implementation of protective actions based upon the all hazards planning basis.</p> <p>c. Emergency Operations System. DOE sites/facilities/activities must maintain systems and/or facilities to support emergency response operations. These must include communications capabilities and systems adequate to support ERO activities and communications with Headquarters Watch Office.</p>	X	X	X	X	X		X	

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S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.068	DOEO151.1D	Att. 3.11.a.	<p>11. NOTIFICATIONS AND COMMUNICATIONS. Initial notifications must be made promptly, accurately, and effectively to all appropriate stakeholders. Follow-up notifications must be made when conditions change and when the Operational Emergency is terminated. DOE sites/facilities/activities must accomplish the following.</p> <p>a. Notifications. (1) See paragraph 9 and 10 of this Attachment for requirements regarding notifications to workers. (2) Provide prompt emergency notifications to emergency response personnel and response organizations. (3) DOE site/facility/activity will provide immediate notification and protective actions to affected employees no later than 10 minutes after the protective actions have been identified in accordance with the emergency management plan and related procedures. (4) Notify the Field Element or appropriate Federal Manager, Headquarters Watch Office, and state, local, and Tribal organizations within 30 minutes of declaration or termination of an Operational Emergency. (5) If the Emergency Operations System is activated for an incident not categorized as an Operational Emergency, the site/facility/activity must notify the Field Element and Headquarters Watch Office within 30 minutes of the Emergency Operations System becoming operational in accordance with the emergency management plan. (6) Emergency notification to the Headquarters Watch Office must consist of a phone call providing as much information as is known at the time and be provided electronically with receipt confirmation. If information is unknown at the time of the report, specify so in reporting. The initial notification must include the – (a) description of the emergency; (b) date and time emergency was discovered or terminated; (c) damage and casualties; (d) protective actions implemented; (e) potential and actual impacts; (f) agencies involved; (g) level of public/media attention; and (h) contact information.</p> <p>Note: Att. 3.11.a.(4), (5), and (6) are not applicable to the Liquid Waste Contractor.</p>	X	X	X	X	X		X	

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				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.072	DOEO151.1D	Att. 3.13.a.	<p>13. TERMINATION AND RECOVERY. DOE sites/facilities/activities must accomplish the following.</p> <p>a. Termination. (1) Establish a predetermined set of criteria for terminating an Operational Emergency. Emergency termination occurs when emergency response activities are terminated, the situation has been stabilized, potential threats to workers, the public, the environment, and national security have been characterized, conditions no longer meet established emergency categorization criteria, and it appears unlikely that conditions will deteriorate. (2) Coordinate the decision to terminate the emergency with the responding organizations and the Field Element or appropriate Federal Manager, as applicable. (3) Notify the Headquarters Watch Office and other organizations previously notified when the emergency is terminated.</p> <p>Note: Att. 3.13.a.(2) and (3) are not applicable to the Liquid Waste Contractor.</p>	X	X	X	X	X		X	
05.02.073	DOEO151.1D	Att. 3.13.b.	<p>13. TERMINATION AND RECOVERY. DOE sites/facilities/activities must accomplish the following.</p> <p>b. Recovery. Prior to termination identify and document in a draft recovery plan the organization (e.g., recovery organization) that will activate and address the actions necessary to restore the site/facility/activity to normal operations. (1) The recovery organization must include accident investigation, as needed, to ensure accident investigation is conducted in accordance with DOE O 225.1B, Accident Investigations. (2) Recovery from a terminated Operational Emergency must include: communication and coordination with State, Tribal, and local government and other Federal agencies.</p> <p>Note: Att. 3.13.b.(2) is not applicable to the Liquid Waste Contractor.</p>	X	X	X	X	X		X	

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05.02.074	DOEO151.1D	Att. 3.13.c.	<p>13. TERMINATION AND RECOVERY. DOE sites/facilities/activities must accomplish the following.</p> <p>c. Post Incident Reporting. (1) Conduct an After Action Review of the Emergency Operations System when it is activated for an actual incident or condition to identify lessons learned and/or corrective actions. If the Emergency Operations System was activated for an Operational Emergency, document the performance review in an After Action Report. (2) For an Operational Emergency, submit the after action report to the Field Element Manager or appropriate Federal Manager for further dissemination to the Associate Administrator, Office of Emergency Operations, and Program Secretarial Officer(s). This report may be done in conjunction with the Final Occurrence Report in accordance with DOE O 232.2, Administrative Change 1, Occurrence Reporting and Processing of Operations Information.</p> <p>Note: Att. 3.13.c. (2) is not applicable to the Liquid Waste Contractor.</p>	X	X	X	X	X		X	
05.02.075	DOEO151.1D	Att. 3.14.a.1.	<p>14. READINESS ASSURANCE. DOE sites/facilities/activities must participate in a formal Readiness Assurance Program that establishes a framework and associated mechanisms for assuring that emergency plans and procedures and resources are adequate by ensuring that they are sufficiently maintained, exercised, and evaluated, and that appropriate and timely improvements are made when identified. The Readiness Assurance Program serves to ensure the readiness and effectiveness of an emergency management program on a programmatic and performance level while promoting a culture of continuous improvement. The Readiness Assurance Program consists of evaluations, improvements, and the Emergency Readiness Assurance Plan.</p> <p>a. Evaluations consist of assessments, exercises, and performance indicators. (1) Assessments. DOE sites/facilities/activities must conduct assessments to ensure that emergency plans, procedures, emergency response activities, and resources are adequate and sufficiently maintained. (a) Conduct self-assessments annually. The self-assessment must address all program elements; however, the scope of each program element assessment does not have to include all aspects of the associated programmatic or response tasks each year. This determination must be based upon the complexity of the program and ensure that all program elements are fully assessed and/or validated through exercises over a five-year period. (b) Support DOE during the conduct of an external assessment.</p>	X	X	X	X	X		X	

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				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.076	DOEO151.1D	Att. 3.14.a.2.	<p>14. READINESS ASSURANCE.</p> <p>DOE sites/facilities/activities must participate in a formal Readiness Assurance Program that establishes a framework and associated mechanisms for assuring that emergency plans and procedures and resources are adequate by ensuring that they are sufficiently maintained, exercised, and evaluated, and that appropriate and timely improvements are made when identified. The Readiness Assurance Program serves to ensure the readiness and effectiveness of an emergency management program on a programmatic and performance level while promoting a culture of continuous improvement. The Readiness Assurance Program consists of evaluations, improvements, and the Emergency Readiness Assurance Plan.</p> <p>a. Evaluations consist of assessments, exercises, and performance indicators.</p> <p>(2) Exercises. DOE sites/facilities/activities must conduct an annual site-level exercise to test and validate emergency plans and procedures.</p> <p>(a) The exercise program must be consistent with the Department of Homeland Security Exercise and Evaluation Program.</p> <p>(b) Rotate the scenario for the annual exercise among the hazards and risks identified in the all hazards planning basis.</p> <p>(c) Provide the annual exercise schedule to the Field Element Manager or appropriate Federal Manager.</p> <p>(d) Prepare an exercise plan.</p> <p>(e) Submit the exercise plan for the annual evaluated site-level exercise to the Field Element Manager or appropriate Federal Manager for approval no less than 30 calendar days prior to the exercise.</p> <p>(f) After action reports must include the results of the evaluation to include findings, issues, and improvement items, and be prepared and submitted within 45 calendar days of the exercise. After action reports for the annual exercise must be submitted to the Field Element Manager or appropriate Federal Manager.</p> <p>Note: Att. 3.14.a.2. (a), (b), (c), (d), (e), and (f) applicable to Liquid Waste Contractor only as an annual Facility-Level Functional Exercise.</p>	X	X	X	X	X		X	

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				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.077	DOEO151.1D	Att. 3.14.a.3.	<p>14. READINESS ASSURANCE.</p> <p>DOE sites/facilities/activities must participate in a formal Readiness Assurance Program that establishes a framework and associated mechanisms for assuring that emergency plans and procedures and resources are adequate by ensuring that they are sufficiently maintained, exercised, and evaluated, and that appropriate and timely improvements are made when identified. The Readiness Assurance Program serves to ensure the readiness and effectiveness of an emergency management program on a programmatic and performance level while promoting a culture of continuous improvement. The Readiness Assurance Program consists of evaluations, improvements, and the Emergency Readiness Assurance Plan.</p> <p>a. Evaluations consist of assessments, exercises, and performance indicators.</p> <p>(3) Performance Indicators. DOE sites/facilities/activities must participate in a program of performance indicators.</p>	X	X	X	X	X		X	

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05.02.078	DOEO151.1D	Att. 3.14.b.1.	<p>14. READINESS ASSURANCE.</p> <p>DOE sites/facilities/activities must participate in a formal Readiness Assurance Program that establishes a framework and associated mechanisms for assuring that emergency plans and procedures and resources are adequate by ensuring that they are sufficiently maintained, exercised, and evaluated, and that appropriate and timely improvements are made when identified. The Readiness Assurance Program serves to ensure the readiness and effectiveness of an emergency management program on a programmatic and performance level while promoting a culture of continuous improvement. The Readiness Assurance Program consists of evaluations, improvements, and the Emergency Readiness Assurance Plan.</p> <p>b. Improvements. DOE sites/facilities/activities must identify improvements that consist of corrective actions and lessons learned.</p> <p>(1) Corrective Actions.</p> <p>(a) Develop corrective actions for findings identified during evaluations, assessments, drills, exercises, and actual emergencies.</p> <p>(b) Use a formal tracking system to track completion of corrective actions. This tracking system may be part of a site/facility/activity action tracking system.</p> <p>(c) Develop a corrective action plan for findings documenting corrective actions, due dates, and assignees within 45 calendar days of the assessment report or After Action Report.</p> <p>(d) Submit corrective action plans for findings from Federally-directed or external assessments for approval to the Field Element Manager or appropriate Federal Manager.</p> <p>(e) Submit corrective action plans, upon request, for findings from contractor-initiated assessments to Field Element Manager or appropriate Federal Manager.</p>	X	X	X	X	X		X	

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S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.079	DOEO151.1D	Att. 3.14.b.2.	<p>14. READINESS ASSURANCE.</p> <p>DOE sites/facilities/activities must participate in a formal Readiness Assurance Program that establishes a framework and associated mechanisms for assuring that emergency plans and procedures and resources are adequate by ensuring that they are sufficiently maintained, exercised, and evaluated, and that appropriate and timely improvements are made when identified. The Readiness Assurance Program serves to ensure the readiness and effectiveness of an emergency management program on a programmatic and performance level while promoting a culture of continuous improvement. The Readiness Assurance Program consists of evaluations, improvements, and the Emergency Readiness Assurance Plan.</p> <p>b. Improvements. DOE sites/facilities/activities must identify improvements that consist of corrective actions and lessons learned.</p> <p>(2) Lessons Learned.</p> <p>(a) Use a system for incorporating and tracking lessons learned from training, drills, actual responses, and the site/facility/activity-wide lessons learned program.</p> <p>(b) Review lessons learned from emergency management program activities under DOE Order 210.2A, DOE Corporate Operating Experience Program.</p> <p>(c) Review lessons learned and best practices from the Office of Enterprise Assessments annual lessons learned report, which provides opportunities for improving DOE emergency management programs.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.080	DOEO151.1D	Att. 3.14.c.1.	<p>14. READINESS ASSURANCE.</p> <p>DOE sites/facilities/activities must participate in a formal Readiness Assurance Program that establishes a framework and associated mechanisms for assuring that emergency plans and procedures and resources are adequate by ensuring that they are sufficiently maintained, exercised, and evaluated, and that appropriate and timely improvements are made when identified. The Readiness Assurance Program serves to ensure the readiness and effectiveness of an emergency management program on a programmatic and performance level while promoting a culture of continuous improvement. The Readiness Assurance Program consists of evaluations, improvements, and the Emergency Readiness Assurance Plan.</p> <p>c. Emergency Readiness Assurance Plan.</p> <p>(1) DOE sites/facilities/activities must develop an Emergency Readiness Assurance Plan (ERAP) using the format and content guidelines provided by the Program Secretarial Officer that was developed in coordination with the Associate Administrator, Office of Emergency Operations. The ERAP must –</p> <p>(a) highlight program status, including significant changes in the emergency management program (e.g., all hazards planning basis, organizations, and exemptions);</p> <p>(b) include a summary of the THIRA;</p> <p>(c) document evaluation results and the status (e.g., open/unresolved or closed) of associated corrective actions;</p> <p>(d) identify what the goals were for the fiscal year that ended and the degree to which those goals were accomplished;</p> <p>(e) identify the goals for the next fiscal year; and</p> <p>(f) be submitted to the Field Element Manager or appropriate Federal Manager for approval.</p> <p>Note: The Liquid Waste Contractor provides input to the Management and Operations Contractor for Att. 3.14.c 1. (a), (b), (c), (d), (e), but does not execute (f).</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.081	DOEO151.1D	Att. 3.14.c.2.	<p>14. READINESS ASSURANCE.</p> <p>DOE sites/facilities/activities must participate in a formal Readiness Assurance Program that establishes a framework and associated mechanisms for assuring that emergency plans and procedures and resources are adequate by ensuring that they are sufficiently maintained, exercised, and evaluated, and that appropriate and timely improvements are made when identified. The Readiness Assurance Program serves to ensure the readiness and effectiveness of an emergency management program on a programmatic and performance level while promoting a culture of continuous improvement. The Readiness Assurance Program consists of evaluations, improvements, and the Emergency Readiness Assurance Plan.</p> <p>c. Emergency Readiness Assurance Plan.</p> <p>(2) The Field Element Manager or appropriate Federal Manager must prepare and submit a consolidated ERAP covering the sites/facilities/activities under its supervision to the Program Secretarial Officer and Associate Administrator, Office of Emergency Operations by November 30 each year. In order to meet this date, DOE sites/facilities/activities must submit for approval the ERAP to the Field Element Manager or appropriate Federal Manager by October 15 of each year unless another date is established between the Field Element Manager/appropriate Federal Manager and the site/facility/activity.</p> <p>Note: Not applicable to the Liquid Waste Contractor.</p>								
05.02.082	DOEO151.1D	Att. 4(1)	<p>This Attachment provides information and/or requirements associated with DOE O 151.1D as well as information and/or requirements applicable to contracts in which the associated Contractor Requirements Document (Attachment 1 to DOE O 151 1D) is inserted.</p> <p>In addition to the Emergency Management Core Program requirements (Attachment 3), DOE sites, facilities, and activities must establish and maintain an Emergency Management Hazardous Materials Program if the site, facility, or activity contains hazardous materials that were not screened out by the hazardous material screening process in Attachment 3.</p> <p>1. PROGRAM ADMINISTRATION. See Attachment 3.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.083	DOEO151.1D	Att. 4. 2.a.	<p>2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS.</p> <p>An Emergency Planning Hazards Assessment (EPHA) must be prepared and used to define the provisions of the Emergency Management Hazardous Materials Program, ensuring that the program is commensurate with the hazards identified. The EPHA provides the basis for establishing a graded approach that will meet the program requirements outlined in this Attachment. DOE sites/facilities/activities with federally regulated biological agents and toxins require and EPHA, however, quantitative analysis is not required. The EPHA must address the following items.</p> <p>a. Identify hazards and the potential consequences from unplanned releases of (or loss of control over) hazardous materials identified in the Hazards Surveys, using accepted industry assessment techniques.</p>	X	X	X	X	X		X	
05.02.084	DOEO151.1D	Att. 4. 2.b.	<p>2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS.</p> <p>The EPHA must address the following items.</p> <p>b. Include identification of receptor locations of interest for each facility containing significant quantities of hazardous materials including:</p> <p>(1) 30 meters from the release location; (2) 100 meters from the release location; (3) site boundary; (4) emergency response facilities; (5) nearest assembly areas as identified in the Emergency Plan; and (6) nearest offsite at risk population such as emergency buildings, schools, and hospitals.</p>	X	X	X	X	X		X	
05.02.085	DOEO151.1D	Att. 4. 2.c.	<p>2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS.</p> <p>The EPHA must address the following items.</p> <p>c. Some facilities, such as underground facilities, require additional consideration of how airborne contaminants may be released, since an atmospheric dispersion model would not provide a valid result.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.086	DOEO151.1D	Att. 4. 2.d.	<p>2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS.</p> <p>The EPHA must address the following items.</p> <p>d. Identify analyzed scenarios using short descriptive names with:</p> <p>(1) tabulated consequences for each scenario at identified receptor locations above,</p> <p>(2) consequences versus distance under conservative and average dispersion conditions. Conservative is defined as a DOE site's 95% worst case or F stability and a wind speed of 1.5 m/s. Average is defined as a DOE site specific average or D stability and a wind speed of 3 m/s, and</p> <p>(3) distances at which the PAC and thresholds of early lethality would be exceeded at receptors identified above. The PAC for releases of hazardous materials are listed below.</p> <p>(a) For radioactive material - the Protective Action Guides (PAGs) promulgated by the Environmental Protection Agency (EPA) must be used.</p> <p>(b) For chemicals, the protective action criteria, listed in order of preference, must be used: Acute Exposure Guideline Levels (AEGs) promulgated by the EPA; Emergency Response Planning Guidelines (ERPGs) published by the American Industrial Hygiene Association; and Temporary Emergency Exposure Limits (TEELs) developed by DOE. For these criteria, the exposure level to be used represents PAC-2 level, i.e. no irreversible health effects. A DOE specific PAC data set (including AEGs, ERPGs, and TEELs), may be referenced at https://sp.eota.energy.gov/pac/.</p> <p>(c) 3. For hazardous biological agents and toxins identified in Attachment 3, protective action criteria are considered exceeded and immediate protective actions are required for any actual or potential release of agents or toxins outside of secondary containment barriers. Long-term protective action criteria are specified by State or local public health officials.</p>	X	X	X	X	X		X	
05.02.087	DOEO151.1D	Att. 4. 2.e.	<p>2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS.</p> <p>The EPHA must address the following items.</p> <p>e. Depending upon the dispersion model used and other factors, the accuracy of most available models may be inaccurate beyond 25 miles. If results go beyond the 25 miles, report the distance as 25 miles; if applicable, farther distances may be reported for information.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.088	DOEO151.1D	Att. 4. 2.f.	<p>2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS. The EPHA must address the following items.</p> <p>f. Analyze scenarios where the same severe event triggers hazardous materials releases from multiple facilities and contain information about the impact of simultaneous or sequential hazardous materials releases from identified receptors above. This can be documented in the EPHA or a site level supplemental planning document. If the EPHA indicates the potential for an Alert, Site Area Emergency, or General Emergency, use the results of the analysis to determine the necessary personnel, resources, and equipment for the Emergency Management Hazardous Materials Program (taking into account approved baseline needs determined through implementation of DOE O 420.1C, Administrative Change 1, Facility Safety).</p>	X	X	X	X	X		X	
05.02.089	DOEO151.1D	Att. 4. 2.g.	<p>2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS. The EPHA must address the following items.</p> <p>g. If the quantitative analysis indicates that all incidents evaluated, based on the results of screening performed in Attachment 3, would be classified as less than an Alert, an EPHA is not required to be maintained. The results of the hazardous material screening process and the quantitative analysis may be incorporated directly into the All-Hazards Survey, or may be incorporated by reference in the All-Hazards Survey. Analysis below Threshold Quantity (TQ) levels for chemicals or below TQ for Hazard Category 3 for radiological materials is not required during EPHA and Emergency Action Level (EAL) development.</p>	X	X	X	X	X		X	
05.02.090	DOEO151.1D	Att. 4. 2.h.	<p>2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS. The EPHA must address the following items.</p> <p>h. Include a determination of the size of the Emergency Planning Zone (EPZ).</p>	X	X	X	X	X		X	
05.02.091	DOEO151.1D	Att. 4. 2.i.	<p>2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS. The EPHA must address the following items.</p> <p>i. Prepare a consolidated/integrated EPZ for the site/facility/activity and submit for approval to the Field Element Manager or appropriate Federal Manager.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.092	DOEO151.1D	Att. 4. 2.j.	2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS. The EPHA must address the following items. j. Document and discuss assumptions, methodology, models, and evaluation techniques used in the EPHA. The EPHA must document functioning and non-functioning control measures and engineered safety systems (e.g. containment systems, fire suppression systems, filters, administrative controls, safeguards and security systems).	X	X	X	X	X		X	
05.02.093	DOEO151.1D	Att. 4. 2.k.	2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS. The EPHA must address the following items. k. Establish and maintain an accurate and timely method for tracking changes in operations, processes, or accident analyses that involve hazardous materials (e.g., introduction of new materials, new uses, significant changes in inventories, modification of material environments). The method must allow sufficient time for emergency management personnel to review the EPHA and modify plans and procedures, as necessary.	X	X	X	X	X		X	
05.02.094	DOEO151.1D	Att. 4. 2.l.	2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS. The EPHA must address the following items. l. integrate the analysis of severe events performed as part of the documented safety analysis into emergency planning. For Defense Nuclear Facilities, include potential events, ranging from low-consequence, high-probability events to high-consequence, low-probability events, to ensure a comprehensive picture of the types of events and the range of associated consequences that could occur at a facility, is captured.	X	X	X	X	X		X	
05.02.095	DOEO151.1D	Att. 4. 2.m.	2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS. The EPHA must address the following items. m. integrate severe event guidance consistent with DOE Guide 421.1-2, Implementation Guide for Use in Developing Documented Safety Analysis to meet Subpart B of 10 CFR 830, DOE-STD-3009-2014, Preparation of Nonreactor Nuclear Facility Documented Safety Analysis, and DOE-STD-1189-2008, Integration of Safety into the Design Process, or their updates. Note: The Liquid Waste Contractor adopted DOE-STD-1189-2016 per CAN response letter SRR-CAA-2017-00283.	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.101	DOEO151.1D	Att. 4. 2.s.	2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS. The EPHA must address the following items. s. Develop an EPHA for shipments that do not satisfy governing Department of Transportation (DOT) regulations and specifications for commercial hazardous materials transport; however, if a shipment satisfies DOT regulations and specifications, then an EPHA is not required.	X	X	X	X	X		X	
05.02.102	DOEO151.1D	Att. 4. 2.t.	2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS. The EPHA must address the following items. t. Develop site/facility/activity-specific EALs for the spectrum of potential Operational Emergencies identified by the EPHA and include protective actions corresponding to each EAL.	X	X	X	X	X		X	
05.02.103	DOEO151.1D	Att. 4. 2.u.	2. ALL-HAZARDS PLANNING BASIS/TECHNICAL PLANNING BASIS. The EPHA must address the following items. u. Adjust the emergency management program to be commensurate with hazards that remain after a decontamination and decommission action is completed at each DOE closure site/facility.	X	X	X	X	X		X	
05.02.104	DOEO151.1D	Att. 4. 3.	3. EMERGENCY RESPONSE ORGANIZATION. See Attachment 3.	X	X	X	X	X		X	
05.02.105	DOEO151.1D	Att. 4. 4.	4. EMERGENCY OPERATIONS SYSTEM. See Attachment 3.	X	X	X	X	X		X	
05.02.106	DOEO151.1D	Att. 4. 5.a.	5. TRAINING AND DRILLS. In addition to the training and drill requirements contained in Attachment 3, DOE sites/facilities/activities with an Emergency Management Hazardous Materials Program must also maintain a training and drill program that includes additional capability based upon the results of the EPHAs. These DOE sites/facilities/activities must accomplish the following. a. Emergency Response Organization. The training and drills program must – (1) consist of self-study, classroom training, or drills; (2) include training on EPHAs and EALs to appropriate ERO members; and (3) consist of emergency categorization and classification training to those personnel who perform this function.	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.118	DOEO151.1D	Att. 4. 8.b.1.	<p>8. EMERGENCY CLASSIFICATION. DOE sites/facilities/activities with a Hazardous Material Program must accomplish the following.</p> <p>b. Classify as either an Alert, Site Area Emergency, or General Emergency, in order of increasing severity, when incidents occur that represent a specific threat to workers and the public due to the release or potential release of significant quantities of hazardous materials. Classification aids in the rapid communication of critical information and the initiation of appropriate time-urgent emergency response actions. The classification levels are:</p> <p>(1) Alert. An Alert must be declared when incidents are predicted, are in progress, or have occurred that result in an actual or credible threat of substantial degradation in the level of control over hazardous materials under one or more of the following situations.</p> <p>(a) The radiation dose from any release to the environment of radioactive material or a concentration in air of hazardous chemical material is expected to exceed the applicable protective action criterion at or beyond 30 meters but not beyond 100 meters from the point of release or beyond the site boundary.</p> <p>(b) An actual or potential substantial degradation in the level of safety or security of a nuclear weapon, component, or test device at a fixed site/facility that would not pose an immediate threat to workers or the public.</p> <p>Note: Att. 4. 8.b.1.(b) is not applicable to the Liquid Waste Contractor.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.119	DOEO151.1D	Att. 4. 8.b.2.	<p>8. EMERGENCY CLASSIFICATION. DOE sites/facilities/activities with a Hazardous Material Program must accomplish the following.</p> <p>b. Classify as either an Alert, Site Area Emergency, or General Emergency, in order of increasing severity, when incidents occur that represent a specific threat to workers and the public due to the release or potential release of significant quantities of hazardous materials. Classification aids in the rapid communication of critical information and the initiation of appropriate time-urgent emergency response actions. The classification levels are:</p> <p>(2) Site Area Emergency. A Site Area Emergency must be declared when incidents are predicted, in progress, or have occurred that result in an actual or credible threat of substantial degradation in the level of control over hazardous materials under one or more of the following situations.</p> <p>(a) The radiation dose from any release of radioactive material or concentration in air from any release of other hazardous material is expected to exceed the applicable protective action criterion at or beyond 100 meters from the point of release but not at or beyond the site boundary.</p> <p>(b) An actual or potential threat to the integrity of a nuclear weapon, component, or test device that may adversely impact the health and safety of workers in the immediate area, but not the public.</p> <p>Note: Att. 4. 8.b.2.(b) is not applicable to the Liquid Waste Contractor.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.120	DOEO151.1D	Att. 4. 8.b.3.	<p>8. EMERGENCY CLASSIFICATION. DOE sites/facilities/activities with a Hazardous Material Program must accomplish the following.</p> <p>b. Classify as either an Alert, Site Area Emergency, or General Emergency, in order of increasing severity, when incidents occur that represent a specific threat to workers and the public due to the release or potential release of significant quantities of hazardous materials. Classification aids in the rapid communication of critical information and the initiation of appropriate time-urgent emergency response actions. The classification levels are: (3) General Emergency. A General Emergency must be declared when incidents are predicted, in progress, or have occurred that result in an actual or credible threat of substantial degradation in the level of control over hazardous materials under one or more of the following situations. (a) The radiation dose from any release of radioactive material or a concentration in air from any release of other hazardous chemical is expected to exceed the applicable protective action criterion at or beyond the site boundary. (b) Actual or likely catastrophic failures in safety or security systems threatening the integrity of a nuclear weapon, component, or test device that may adversely impact the health and safety of workers and the public.</p> <p>Note: Att. 4. 8.b.3.(b) is not applicable to the Liquid Waste Contractor.</p>	X	X	X	X	X		X	
05.02.121	DOEO151.1D	Att. 4. 8.c.1.	<p>8. EMERGENCY CLASSIFICATION. DOE sites/facilities/activities with a Hazardous Material Program must accomplish the following.</p> <p>c. Respond appropriately to each emergency classification level. Actions required for response to an Operational Emergency must be implemented. See Attachment 3, Section 4. (1) Alert. Declaration of an Alert does not necessarily require the activation of response centers.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.122	DOEO151.1D	Att. 4. 8.c.2.	<p>8. EMERGENCY CLASSIFICATION. DOE sites/facilities/activities with a Hazardous Material Program must accomplish the following.</p> <p>c. Respond appropriately to each emergency classification level. Actions required for response to an Operational Emergency must be implemented. See Attachment 3, Section 4. (2) Site Area Emergency. Declaration of a Site Area Emergency requires the same response as for an Alert plus notification and assembly of emergency response personnel and equipment to activate response centers and to establish communications, consultation, and liaison with offsite authorities.</p>	X	X	X	X	X		X	
05.02.123	DOEO151.1D	Att. 4. 8.c.3.	<p>8. EMERGENCY CLASSIFICATION. DOE sites/facilities/activities with a Hazardous Material Program must accomplish the following.</p> <p>c. Respond appropriately to each emergency classification level. Actions required for response to an Operational Emergency must be implemented. See Attachment 3, Section 4. (3) General Emergency. Declaration of General Emergency requires the same response as for a Site Area Emergency, plus the notification, mobilization, and dispatch of all appropriate emergency response personnel and equipment, including appropriate DOE emergency response assets, and liaison with offsite authorities for the recommendation of predetermined public protective actions.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.136	DOEO151.1D	Att. 4.11.g.	<p>11. EMERGENCY FACILITIES AND EQUIPMENT/SYSTEMS. In addition to the emergency facilities and equipment requirements contained in Attachment 3, DOE sites/facilities/activities with an Emergency Management Hazardous Materials Program must also establish and maintain the following facilities and equipment.</p> <p>g. Defense Nuclear Facilities must identify onsite emergency response facilities (i.e., primary EOCs, control rooms, operation centers, medical facilities, fire departments). For these facilities, the DOE facility/site must— (1) develop compensatory measures for onsite emergency response facilities that are not survivable and habitable, and (2) maintain and test safety functions and features to ensure they function as designed.</p>	X	X	X	X	X		X	
05.02.137	DOEO151.1D	Att. 4.11.h.	<p>11. EMERGENCY FACILITIES AND EQUIPMENT/SYSTEMS. In addition to the emergency facilities and equipment requirements contained in Attachment 3, DOE sites/facilities/activities with an Emergency Management Hazardous Materials Program must also establish and maintain the following facilities and equipment.</p> <p>h. Defense Nuclear Facilities must — (1) develop safe shutdown or walkaway strategies for equipment and facilities during emergencies, and (2) ensure a transition of responsibilities and required actions between normal work activities, incident activities, and recovery operations.</p>	X	X	X	X	X		X	
05.02.138	DOEO151.1D	Att. 4.12.	<p>12. NOTIFICATIONS AND COMMUNICATIONS. Notify local, state, Tribal, and federal authorities of classified Operational Emergencies within 15 minutes of categorization.</p> <p>Note: Not applicable to the Liquid Waste Contractor.</p>								
05.02.139	DOEO151.1D	Att. 4.13.	<p>13. EMERGENCY PUBLIC INFORMATION. In addition to the emergency public information requirements contained in Attachment 3, DOE sites/facilities/activities with an Emergency Management Hazardous Materials Program must also maintain staff and expertise to perform emergency public information activities that include — a. public and media inquiry activities; b. availability of personnel with technical expertise related to the emergency; and c. coordination and direction by the Field Element Manager or appropriate Federal Manager public affairs manager or designee.</p> <p>Note: Att. 4.13. a. and c. are not applicable to the Liquid Waste Contractor.</p>	X	X	X	X	X		X	

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S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.140	DOEO151.1D	Att. 4.14.	<p>14. TERMINATION AND RECOVERY.</p> <p>a. Predetermined criteria for termination of emergencies must be established.</p> <p>b. The means must exist for estimating exposure to hazardous materials and for protecting workers and the general public from exposure during reentry and recovery activities.</p> <p>c. Recovery procedures must include: dissemination of information to Federal, State, Tribal, and local organizations regarding the emergency and possible relaxation of public protective actions; planning for decontamination actions; establishment of a recovery organization; development of reporting requirements; and establishment of criteria for resumption of normal operations.</p> <p>d. The decision to terminate an Operational Emergency classified as an Alert, Site Area Emergency, or General Emergency must be based on the perceived need for the ERO to remain fully active to monitor and manage the situation. The decision to terminate an Operational Emergency not requiring classification must be a formal announcement or formal acknowledgement that the situation is stabilized and that the response activity is ending or has been substantially scaled back.</p> <p>Note: Att. 4.14.c. and d. are not applicable to the Liquid Waste Contractor.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.141	DOEO151.1D	Att. 4.15.a.	<p>15. READINESS ASSURANCE.</p> <p>In addition to the readiness assurance requirements contained in Attachment 3, DOE sites/facilities/activities with an Emergency Management Hazardous Material Program must also establish and maintain a site-level exercise program that validates its emergency response capability to the hazards identified in EPHAs. These DOE sites/facilities/activities must accomplish the following.</p> <p>a. Develop a formal exercise program that includes –</p> <p>(1) a matrix that identifies planned exercises over the next five years and elements tested;</p> <p>(2) rotation among scenarios identified in the Technical Planning Basis;</p> <p>(3) exercise scenarios involving radiological hazardous materials, if applicable;</p> <p>(4) a method for determining the appropriate number of exercises, and rotation of exercise scenarios among hazardous material facilities over a five year period, to ensure demonstration of responder proficiency;</p> <p>(5) invitation of offsite responding agencies and national assets, (e.g., Centers for Disease Control, Department of Agriculture, etc.) every three years;</p> <p>(6) severe event scenarios every five years;</p> <p>(7) test of design control and/or mitigation features in multiple facilities;</p> <p>(8) demonstration of ERO capability; and</p> <p>(9) integration with local, State and Federal agencies.</p> <p>Note: Att. 4.15.a.(5) and (9) are not applicable to the Liquid Waste Contractor.</p>	X	X	X	X	X		X	
05.02.142	DOEO151.1D	Att. 4.15.b.	<p>15. READINESS ASSURANCE.</p> <p>In addition to the readiness assurance requirements contained in Attachment 3, DOE sites/facilities/activities with an Emergency Management Hazardous Material Program must also establish and maintain a site-level exercise program that validates its emergency response capability to the hazards identified in EPHAs. These DOE sites/facilities/activities must accomplish the following.</p> <p>b. Develop challenging exercises based on scenarios identified in the Technical Planning Basis that –</p> <p>(1) involve high-consequence scenarios;</p> <p>(2) involve multiple response elements; and</p> <p>(3) result in offsite effects.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Reqt Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.150	DOEO151.1D	Att. 4.15.j.	<p>15. READINESS ASSURANCE.</p> <p>In addition to the readiness assurance requirements contained in Attachment 3, DOE sites/facilities/activities with an Emergency Management Hazardous Material Program must also establish and maintain a site-level exercise program that validates its emergency response capability to the hazards identified in EPHAs. These DOE sites/facilities/activities must accomplish the following.</p> <p>j. Defense Nuclear Facilities must perform the following.</p> <p>(1) Conduct causal analysis to determine corrective actions for findings identified as a result of noncompliance for life safety.</p> <p>(2) Develop formal corrective action plans for identified findings. The corrective action plan must be approved by the Field Element Manager. The Field Element Manager must ensure effective corrective actions are tracked, identified, and implemented.</p> <p>(3) Evaluate the effectiveness of corrective actions through verification and validations conducted by an independent reviewer.</p> <p>(4) Identify compensatory measures for findings until causal analysis is performed and corrective actions are identified and implemented.</p> <p>Note: Att. 4.15.j. (2) second and third sentence are not applicable to Liquid Waste Contractor.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.02.184	DOEO151.1D	Att. 6. 2.b.2.	<p>2. EMERGENCY ASSISTANCE REQUESTS.</p> <p>b. Responsibilities. (2) Appointed Lead Office (a) As directed by the Deputy Secretary, and within the bounds of Departmental authority, the appointed lead office must coordinate a DOE response to national security threats or other events or conditions benefited by DOE assistance, expertise, resources, or assets. (b) Accordingly, Departmental resources, emergency response assets, personnel, and/or facilities can be used by the appointed lead office, when appropriate, in coordination with the cognizant Departmental elements to support Federal Plans, Presidential directions, and State, local, or Tribal agreements of mutual aid. The lead program office will provide/coordinate funding to support work performed, including to DOE contractors.</p> <p>Note: Not applicable to the Liquid Waste Contractor.</p>								
05.03.002	DOEO153.1	Att. 2. 1	<p>Contractors must ensure compliance with asset-specific public affairs plans for emergency response assets, which are developed by DOE Headquarters.</p> <p>Note: For DOE Region 3 Radiological Assistance Program (RAP) and Aerial Measuring System (AMS) Region 3 operations, this requirement has been modified.</p>						(+) RAP	X	
05.03.003	DOEO153.1	Att. 2. 2	<p>Contractors must cooperate with the Senior Energy Official (SEO) for any response involving the deployment of the emergency response assets. Deployed emergency response assets will work in support of, and under the coordination of, the SEO.</p>						(+) RAP	X	
05.03.004	DOEO153.1	Att. 2. 3	<p>Each contractor supporting the emergency response assets will be required to provide a Program Execution Plan (PEP) that provides information for program planning, budget formulation, or documentation of part, or all, of a work assignment. This information will be used for the development of the work authorization statements. Each emergency response asset will be required to carry out the work agreed to in the work authorization statement consistent with its terms and conditions; provide monthly reports on accomplishments, shortfalls, status of specified funding activities, and tasks. These activities will be coordinated with the Regional Response Coordinator and through the NNSA Office of Emergency Response Program Manager for the emergency response asset.</p> <p>Note: For DOE Region 3 Radiological Assistance Program (RAP) and Aerial Measuring System (AMS) Region 3 operations, this requirement has been modified.</p>						(+) RAP	X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req't Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.03.005	DOEO153.1	Att. 2. 4	<p>When communicating with DOE Region 3 RAP and AMS personnel regarding a potential deployment, the following standard terminology is used:</p> <p>a. Alert: RAP team members are notified that mobilization or deployment is being considered. RAP personnel must prepare and remain available for subsequent mobilization and deployment.</p> <p>b. Activate: Assemble DOE/NNSA Radiological Emergency Response (RER) and/or Nuclear Emergency Support Team (NEST) asset personnel at home station to conduct emergency response support activities (e.g., Consequence Management Home Team).</p> <p>c. Mobilization: RAP team members and necessary equipment are assembled at a designated location in preparation for deployment.</p> <p>d. Deployment: RAP team members are physically relocated to a forward location or an event scene to provide radiological assistance.</p> <p>e. Redeployment: Deployed RAP team members and equipment are returned to home station.</p> <p>Note: For DOE Region 3 Radiological Assistance Program (RAP) and Aerial Measuring System (AMS) Region 3 operations, this requirement has been modified.</p>						(+) RAP	X	
05.03.006	DOEO153.1	Att. 2. 5	<p>Contractors must develop the plans and procedures necessary to implement the provisions of this CRD. These plans and procedures must include Integrated Safety Management concepts.</p>						(+) RAP	X	
05.03.007	DOEO153.1	Att. 2. 6	<p>Contractors must maintain the capability for 24-hours/day notification.</p>						(+) RAP	X	
05.03.008	DOEO153.1	Att. 2. 7	<p>Contractors with deployable emergency response assets must establish, maintain, and practice the ability to deploy personnel and equipment to any potential event location within prescribed deployment guidelines.</p>						(+) RAP	X	
05.03.009	DOEO153.1	Att. 2. 8	<p>Contractors must require that all contractor emergency response asset personnel who are eligible for deployment to the Bahamas and Panama obtain and maintain a valid United States passport, current immunizations, and must take all other actions necessary to qualify fully for deployment in Bahamas and Panama.</p> <p>Note: For DOE Region 3 Radiological Assistance Program (RAP) and Aerial Measuring System (AMS) Region 3 operations, this requirement has been modified.</p>						(+) RAP	X	

TABLE 1 - S/RID FUNCTIONAL AREA 05 (EMERGENCY MANAGEMENT) REQUIREMENTS

S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
05.03.010	DOEO153.1	Att. 2. 9	All contractor emergency response asset personnel who have, or may have, contact with classified matter must have the appropriate valid security clearance. a. Contractor personnel with potential access to nuclear weapons or related information must have a Q clearance and the appropriate Sigma access. b. Contractor personnel identified to handle Intelligence Information must obtain appropriate clearances and authorizations.						(+) RAP	X	
05.03.011	DOEO153.1	Att. 2.10	All contractor organizations with responsibilities for emergency response assets must ensure that individual members of that asset participate in an emergency response exercise at least once every 3 years.						(+) RAP	X	
05.03.012	DOEO153.1	Att. 2.11	Contractor organizations must have readiness assurance programs to ensure that emergency capabilities are sufficient to implement emergency plans and that appropriate and timely improvements are made in response to needs identified through coordinated emergency planning, resource allocation, training, drills, exercises, and actual responses to events.						(+) RAP	X	
05.03.013	DOEO153.1	Att. 2.12	In the event of an off-site radiological accident involving a nuclear weapon, special nuclear material, or classified components, contractors must cooperate with DOE in establishing a National Security Area to safeguard classified information, Restricted Data, equipment, and material.						(+) RAP	X	
05.03.014	DOEO153.1	Att. 2.13	Lessons learned from actual responses and exercises must be incorporated into training programs and into emergency response asset response plans and procedures.						(+) RAP	X	