

STANDARDS/REQUIREMENTS IDENTIFICATION DOCUMENT

FUNCTIONAL AREA 19.0

OCCUPATIONAL SAFETY AND HEALTH (U)

FEBRUARY 05, 2019
REVISION 18-12

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

Manager, Contractor Assurance

Date

Savannah River Remediation LLC
Savannah River Site
Aiken, SC 29808

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19.00 OCCUPATIONAL SAFETY AND HEALTH

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 which 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. Additionally, the reader should refer to the S/RID homepage for definitions and terms used in the functional area.

The Occupational Safety and Health S/RID Functional Area includes the activities required for safety and to protect the environment and health of the public and workers. The scope of the Occupational Safety and Health S/RID Functional Area covers the requirements needed to furnish Savannah River Site (SRS) employees with a place of employment that is as free from occupational safety and health hazards as possible. SRR project scope does not include any research involving human subjects. However, in the event of a request for United States Department of Energy (DOE) research involving human subjects per DOE O 443.1B, Change 1, Protection of Human Research Subjects, SRR will follow the program and procedure established by the SRS Institutional Review Board (IRB). The S/RID addresses General Industry Safety, Construction Safety, Industrial Hygiene, support of human research subjects and the Occupational Medical Program. Specific requirements for this element are listed in Table 1.

The Occupational Safety and Health S/RID Functional Area is prepared in alignment with the July 30, 1993, Revision 0 to the DOE-Headquarters ES&H Configuration Guide. Portions of the ES&H Configuration Guide for this functional area specify inclusion of requirements that were considered by SRR as more appropriate for the inclusion in other S/RID functional areas. Rather than repeating requirements in multiple functional areas, reference is made to the S/RID functional areas that contain requirements associated with the Occupational Safety and Health S/RID Functional Area. 10 CFR 851, Appendix A, 5. Firearms Safety is not applicable to SRR. Additionally, the following safety and health standards from 10 CFR 851.23 are not applicable to SRR:

Title 29 CFR, Part 1915, "Shipyard Employment."

Title 29 CFR, Part 1917, "Marine Terminals."

Title 29 CFR, Part 1918, "Safety and Health Regulations for Longshoring."

Title 29 CFR, Part 1928, "Occupational Safety and Health Standards for Agriculture."

19.01 MANAGEMENT AND ADMINISTRATION

Administrative and programmatic requirements for Occupational Safety and Health S/RID Functional Area are found in the Quality Assurance and Management Systems S/RID Functional Areas. The general aspects of management, policy, staffing, and training are covered under Management Systems and reflect a top-level management commitment to an aggressive and effective Occupational Safety and Health (OS&H) program. Specific requirements for this element are listed in Table 1.

19.01.01 Program Policy

Requirements for this element are listed in Table 1. These requirements address management's overall commitment to occupational safety and health as it relates to production and safety goals.

19.01.02 Occupational Safety and Health Goals and Objectives

The general aspects of management, policy, staffing, and training are covered under Management Systems S/RID Functional Area and reflect a top-level management commitment to an aggressive and effective OS&H program. No additional specific requirements are identified under this sub-element.

19.02 HAZARD ANTICIPATION, IDENTIFICATION, AND EVALUATION

The requirements to effectively anticipate, identify, and evaluate occupational safety and health hazards are covered under this element. Specific requirements for this element are identified Table 1.

19.02.01 Hazard Assessment

Requirements for this element are listed in Table 1. These requirements address anticipating, identifying, and evaluating occupational safety and health hazards.

19.02.02 Hazards Reporting System

Requirements related to investigating and reporting accidents, injuries, and illnesses are provided in Section 19.06, Recordkeeping and Reporting, of this functional area.

19.02.03 Investigation of Occurrences, Accidents, and Near Misses

General administrative and programmatic requirements for Occupational Safety and Health S/RID Functional Area are found in the Quality Assurance and Management Systems S/RID Functional Areas. No additional requirements are included in this section.

19.02.04 Injury and Illness Trend Analysis

General administrative and programmatic requirements for Occupational Safety and Health S/RID Functional Area are found in the Quality Assurance and Management Systems S/RID Functional Areas. Injury and illness data is collected and analyzed to determine statistical trends. Identification of hazards that result in recurring injuries and illnesses is needed to properly implement the required prevention and control measures. No additional specific requirements are identified under this sub-element.

19.02.05 Occupational Safety and Health Hazard Inventory System

Maintenance of a comprehensive hazard inventory system ensures that identified hazards are controlled and/or corrected, documented, and tracked to prevent undue exposure of personnel or the environment. Programmatic requirements for Occupational Safety and Health S/RID Functional Area are found in the Quality Assurance and Management Systems S/RID Functional Areas. No additional specific requirements are identified under this sub-element.

19.03 OCCUPATIONAL SAFETY AND HEALTH HAZARD PREVENTION AND CONTROL

Requirements for Occupational Safety and Health S/RID Functional Area are found in the Management Systems S/RID Functional Area and reflect a top level management commitment to an aggressive and effective OS&H program. Specific requirements are identified under the sub-elements of Hazard Controls and Safety Inspections and Maintenance.

19.03.01 Hazard Monitoring, Sampling, and Surveillance

This section contains requirements for industrial hygiene programs related to workplace hazards.

19.03.02 Hazard Controls

Requirements for this element are listed in Table 1. These requirements primarily address control of occupational safety and health hazards through lockouts and tagouts.

19.03.03 Safety Inspections and Maintenance

Safety inspections and maintenance are addressed under the requirements listed in Occupational Safety and Health S/RID Functional Area. No additional specific requirements are identified under this sub-element.

19.04 OCCUPATIONAL HEALTH PROGRAM

Specific requirements for this element are listed in Table 1. Occupational health program requirements are identified under this element.

19.04.01 Health Examinations

No specific requirements were identified for comprehensive health examinations other than the programmatic requirements above.

19.04.02 Health Maintenance

Requirements to ensure the preservation and improvement of worker health are listed in Table 1.

19.04.03 Diagnosis and Treatment

The requirements for the prompt diagnosis and treatment of occupational injuries and illnesses and for facilitating employee rehabilitation and return to work following the approval of the occupational health organization are listed in Table 1.

19.04.04 Fitness for Duty

The requirements used to identify and manage persons who may be a liability to workplace personnel or operations regardless of the cause are listed in Table 1.

19.04.05 Medical Facilities and Equipment (Not applicable to SRR Contract Scope)

No specific requirements are provided that apply to medical facilities and equipment only.

19.04.06 Professional Development of Occupational Staff

No specific requirements are provided that apply to the development of occupational health professional staff.

19.04.07 Health Records and Reporting

Specific requirements for the health record control system and human research are listed in Table 1.

19.05 OCCUPATIONAL SAFETY AND HEALTH TRAINING

Training and qualification requirements for operations personnel are primarily found in the Training and Qualifications S/RID Functional Area. This section contains requirements specifically related to occupational safety and health training.

19.06 RECORDKEEPING AND REPORTING

Occupational safety and health reporting requirements are addressed in this section.

19.07 KEY INTERFACES

Administrative and programmatic requirements for Occupational Safety and Health S/RID Functional Area are found in the Quality Assurance and Management Systems S/RID Functional Areas. General training and qualification requirements for personnel are found in the Quality Assurance S/RID Functional Area. Fire protection and fire suppression equipment that are not covered in 29 CFR 1910 or 29 CFR 1926 are found in the Fire Protection S/RID Functional Area.

19.08 DOCUMENTS**19.08.01 Reference Documents**

10 CFR 707	WORKPLACE SUBSTANCE ABUSE PROGRAMS AT DOE SITES
10 CFR 851	WORKER SAFETY AND HEALTH PROGRAM, 1/17/2018
DOEN443.1	PROTECTION OF HUMAN SUBJECTS IN CLASSIFIED RESEARCH, 1/21/2016
DOEO231.1B-AChg1	ENVIRONMENT, SAFETY AND HEALTH REPORTING, ADMIN CHANGE 1, 11/28/2012
DOEO422.1-AChg2	CONDUCT OF OPERATIONS, ADMIN CHANGE 2, 12/3/2014
DOEO443.1B-Chg1	PROTECTION OF HUMAN RESEARCH SUBJECTS, CHANGE 1, 4/21/2016

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)

Explosives
Explosives per DOE-STD-1212

SU(BC)
Subs -B/C (No Phy. Bldg.) See FA 00

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.00.041	10 CFR 851	Sub.A.851.1	<p>General Provisions</p> <p>Scope and purpose.</p> <p>(a) The worker safety and health requirements in this part govern the conduct of contractor activities at DOE sites.</p> <p>(b) This part establishes the:</p> <p>(1) Requirements for a worker safety and health program that reduces or prevents occupational injuries, illnesses, and accidental losses by providing DOE contractors and their workers with safe and healthful workplaces at DOE sites; and</p> <p>(2) Procedures for investigating whether a violation of a requirement of this part has occurred, for determining the nature and extent of any such violation, and for imposing an appropriate remedy.</p> <p>Note: Does not include specific requirements for occupational safety and health. Included here for information and clarity.</p>	X	X	X	X	X		X	
19.00.042	10 CFR 851	Sub.A.851.2	<p>General Provisions</p> <p>Exclusions.</p> <p>(a) This part does not apply to work at a DOE site:</p> <p>(1) Regulated by the Occupational Safety and Health Administration; or</p> <p>(2) Operated under the authority of the Director, Naval Nuclear Propulsion, pursuant to Executive Order 12344, as set forth in Public Law 98-525, 42 U.S.C. 7158 note.</p> <p>(b) This part does not apply to radiological hazards or nuclear explosives operations to the extent regulated by 10 CFR Parts 20, 820, 830 or 835.</p> <p>(c) This part does not apply to transportation to or from a DOE site.</p> <p>(d) This part does not require compliance with any Occupational Safety and Health Administration beryllium requirement except for any permissible exposure limit for beryllium in 29 CFR 1910.1000.</p> <p>Note: Does not include specific requirements for occupational safety and health. Included here for information and clarity.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.01.011	10 CFR 851	Sub.B.851.10(a)	<p>Program Requirements General requirements.</p> <p>With respect to a covered workplace for which a contractor is responsible, the contractor must:</p> <p>(1) Provide a place of employment that is free from recognized hazards that are causing or have the potential to cause death or serious physical harm to workers; and (2) Ensure that work is performed in accordance with: (i) All applicable requirements of this part; and (ii) With the worker safety and health program for that workplace.</p>	X	X	X	X	X		X	
19.01.012	10 CFR 851	Sub.B.851.10(b)	<p>Program Requirements General requirements.</p> <p>(b) The written worker safety and health program must describe how the contractor complies with the:</p> <p>(1) Requirements set forth in Subpart C of this part that are applicable to the hazards associated with the contractor's scope of work; and (2) Any compliance order issued by the Secretary pursuant to paragraph 851.4.</p> <p>Notes: 1) Paragraph 851.4 is included in FA 01, Requirement 01.04.157. 2) Does not include specific requirements for occupational safety and health. Included here for information and clarity.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.01.013	10 CFR 851	Sub.B.851.11(a)	<p>Program Requirements</p> <p>Development and approval of the worker safety and health program.</p> <p>Preparation and submission of worker safety and health program. By February 26, 2007, contractors must submit to the appropriate Head of DOE Field Element for approval a written worker safety and health program that provides the methods for implementing the requirements of Subpart C of this part.</p> <p>(1) If a contractor is responsible for more than one covered workplace at a DOE site, the contractor must establish and maintain a single worker safety and health program for the covered workplaces for which the contractor is responsible.</p> <p>(2) If more than one contractor is responsible for covered workplaces, each contractor must:</p> <p>(i) Establish and maintain a worker safety and health program for the workplaces for which the contractor is responsible; and</p> <p>(ii) Coordinate with the other contractors responsible for work at the covered workplaces to ensure that there are clear roles, responsibilities and procedures to ensure the safety and health of workers at multi-contractor workplaces.</p> <p>(3) The worker safety and health program must describe how the contractor will:</p> <p>(i) Comply with the requirements set forth in Subpart C of this part that are applicable to the covered workplace, including the methods for implementing those requirements; and</p> <p>(ii) Integrate the requirements set forth in Subpart C of this part that are applicable to a covered workplace with other related site-specific worker protection activities and with the integrated safety management system.</p> <p>Note: Does not include specific requirements for occupational safety and health. Included here for information, program instructions, and clarity.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.01.014	10 CFR 851	Sub.B.851.11(b)	<p>Program Requirements</p> <p>DOE evaluation and approval. The Head of DOE Field Element must complete a review and provide written approval of the contractor's worker safety and health program, within 90 days of receiving the document. The worker safety and health program and any updates are deemed approved 90 days after submission if they are not specifically approved or rejected by DOE earlier.</p> <p>(1) Beginning May 25, 2007, no work may be performed at a covered workplace unless an approved worker safety and health program is in place for the workplace.</p> <p>(2) Contractors must send a copy of the approved program to the Associate Under Secretary for Environment, Health, Safety and Security.</p> <p>(3) Contractors must furnish a copy of the approved worker safety and health program, upon written request, to the affected workers or their designated representatives.</p> <p>Notes: 1) This requirement contains DOE actions that are included for clarity and completeness. 2) Items (1) and (2) above do not include specific requirements for occupational safety and health. Included here for information, program instructions, and clarity.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.01.015	10 CFR 851	Sub.B.851.11(c)	<p>Program Requirements</p> <p>Updates.</p> <p>(1) Contractors must submit an update of the worker safety and health program to the appropriate Head of DOE Field Element, for review and approval whenever a significant change or addition to the program is made, or a change in contractors occurs.</p> <p>(2) Contractors must submit annually to DOE either an updated worker safety and health program for approval or a letter stating that no changes are necessary in the currently approved worker safety and health program.</p> <p>(3) Contractors must incorporate in the worker safety and health program any changes, conditions, or workplace safety and health standards directed by DOE consistent with the requirements of this part and DEAR 970.5204-2, Laws, Regulations and DOE Directives (December, 2000) and associated contract clauses.</p> <p>Note: Does not include specific requirements for worker safety or health. Included here for information, program instructions, and clarity.</p>	X	X	X	X	X		X	
19.01.016	10 CFR 851	Sub.B.851.12	<p>Implementation.</p> <p>(a) Contractors must implement the requirements of this part.</p> <p>(b) Nothing in this part precludes a contractor from taking any additional protective action that is determined to be necessary to protect the safety and health of workers.</p> <p>Note: Does not include specific requirements for occupational, safety and health. Included here for information and clarity.</p>	X	X	X	X	X		X	
19.01.017	10 CFR 851	Sub.B.851.13(a)	<p>Compliance.</p> <p>Contractors must achieve compliance with all the requirements of Subpart C of this part, and their approved worker safety and health program no later than May 25, 2007. Contractors may be required to comply contractually with the requirements of this rule before February 9, 2007.</p> <p>Note: Does not include specific requirements for occupational, safety and health. Included here for information and clarity.</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
19.01.018	10 CFR 851	Sub.B.851.13(b)	<p>Compliance.</p> <p>In the event a contractor has established a written safety and health program, an Integrated Safety Management System (ISMS) description pursuant to the DEAR Clause, or an approved Work Smart Standards (WSS) process before the date of issuance of the final rule, the Contractor may use that program, description, or process as the worker safety and health program required by this part if the appropriate Head of the DOE Field Element approves such use on the basis of written documentation provided by the contractor that identifies the specific portions of the program, description, or process, including any additional requirements or implementation methods to be added to the existing program, description, or process, that satisfy the requirements of this part and that provide a workplace as safe and healthful as would be provided by the requirements of this part.</p> <p>Note: Does not include specific requirements for occupational, safety and health. Included here for information and clarity.</p>	X	X	X	X	X		X	
19.01.019	10 CFR 851	Sub.B.851.13(c)	<p>Compliance.</p> <p>Nothing in this part shall be construed to limit or otherwise affect contractual obligations of a contractor to comply with contractual requirements that are not inconsistent with the requirements of this part.</p> <p>Note: Does not include specific requirements for occupational, safety and health. Included here for information and clarity.</p>	X	X	X	X	X		X	
19.01.020	10 CFR 851	Sub.C.851.20(a)(1)	<p>Subpart C- Specific Program Requirements</p> <p>Management responsibilities and worker rights and responsibilities.</p> <p>Management responsibilities. Contractors are responsible for the safety and health of their workforce and must ensure that contractor management at a covered workplace:</p> <p>(1) Establish written policy, goals, and objectives for the worker safety and health program;</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.01.021	10 CFR 851	Sub.C.851.20(a)(2)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Management responsibilities. Contractors are responsible for the safety and health of their workforce and must ensure that contractor management at a covered workplace:</p> <p>(2) Use qualified worker safety and health staff (e.g., a certified industrial hygienist, or safety professional) to direct and manage the program;</p>	X	X	X	X	X		X	
19.01.022	10 CFR 851	Sub.C.851.20(a)(3)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Management responsibilities. Contractors are responsible for the safety and health of their workforce and must ensure that contractor management at a covered workplace:</p> <p>(3) Assign worker safety and health program responsibilities, evaluate personnel performance, and hold personnel accountable for worker safety and health performance;</p>	X	X	X	X	X		X	
19.01.023	10 CFR 851	Sub.C.851.20(a)(4)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Management responsibilities. Contractors are responsible for the safety and health of their workforce and must ensure that contractor management at a covered workplace:</p> <p>(4) Provide mechanisms to involve workers and their elected representatives in the development of the worker safety and health program goals, objectives, and performance measures and in the identification and control of hazards in the workplace;</p> <p>Note: Performance measures not required of B&C subcontractors.</p>	X	X	X	X	X		X	
19.01.024	10 CFR 851	Sub.C.851.20(a)(5)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Management responsibilities. Contractors are responsible for the safety and health of their workforce and must ensure that contractor management at a covered workplace:</p> <p>(5) Provide workers with access to information relevant to the worker safety and health program;</p>	X	X	X	X	X		X	

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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
19.01.025	10 CFR 851	Sub.C.851.20(a)(6)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Management responsibilities. Contractors are responsible for the safety and health of their workforce and must ensure that contractor management at a covered workplace:</p> <p>(6) Establish procedures for workers to report without reprisal job-related fatalities, injuries, illnesses, incidents, and hazards and make recommendations about appropriate ways to control those hazards;</p>	X	X	X	X	X		X	
19.01.026	10 CFR 851	Sub.C.851.20(a)(7)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Management responsibilities. Contractors are responsible for the safety and health of their workforce and must ensure that contractor management at a covered workplace:</p> <p>(7) Provide for prompt response to such reports and recommendations;</p>	X	X	X	X	X		X	
19.01.027	10 CFR 851	Sub.C.851.20(a)(8)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Management responsibilities. Contractors are responsible for the safety and health of their workforce and must ensure that contractor management at a covered workplace:</p> <p>(8) Provide for regular communication with workers about workplace safety and health matters;</p>	X	X	X	X	X		X	
19.01.028	10 CFR 851	Sub.C.851.20(a)(9)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Management responsibilities. Contractors are responsible for the safety and health of their workforce and must ensure that contractor management at a covered workplace:</p> <p>(9) Establish procedures to permit workers to stop work or decline to perform an assigned task because of a reasonable belief that the task poses an imminent risk of death, serious physical harm, or other serious hazard to workers, in circumstances where the workers believe there is insufficient time to utilize normal hazard reporting and abatement procedures; and</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
19.01.029	10 CFR 851	Sub.C.851.20(a)(10)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Management responsibilities. Contractors are responsible for the safety and health of their workforce and must ensure that contractor management at a covered workplace:</p> <p>(10) Inform workers of their rights and responsibility by appropriate means, including posting the DOE-designated Worker Protection Poster in the workplace where it is accessible to all workers.</p>	X	X	X	X	X		X	
19.01.030	10 CFR 851	Sub.C.851.20(b)(1)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Worker rights and responsibilities.</p> <p>Workers must comply with the requirements of this part, including the worker safety and health program, which are applicable to their own actions and conduct. Workers at a covered workplace have the right, without reprisal, to:</p> <p>(1) Participate in activities described in this section on official time;</p>	X	X	X	X	X		X	
19.01.031	10 CFR 851	Sub.C.851.20(b)(2)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Worker rights and responsibilities.</p> <p>Workers must comply with the requirements of this part, including the worker safety and health program, which are applicable to their own actions and conduct. Workers at a covered workplace have the right, without reprisal, to:</p> <p>(2) Have access to:</p> <p>(i) DOE safety and health publications;</p> <p>(ii) The worker safety and health program for the covered workplace;</p> <p>(iii) The standards, controls, and procedures applicable to the covered workplace;</p> <p>(iv) The safety and health poster that informs the worker of relevant rights and responsibilities;</p> <p>(v) Limited information on any recordkeeping log (OSHA Form 300). Access is subject to Freedom of Information Act requirements and restrictions; and</p> <p>(vi) The DOE Form 5484.3 (the DOE equivalent to OSHA Form 301) that contains the employee's name as the injured or ill worker;</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.01.032	10 CFR 851	Sub.C.851.20(b)(3)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Worker rights and responsibilities.</p> <p>Workers must comply with the requirements of this part, including the worker safety and health program, which are applicable to their own actions and conduct. Workers at a covered workplace have the right, without reprisal, to:</p> <p>(3) Be notified when monitoring results indicate the worker was overexposed to hazardous materials;</p>	X	X	X	X	X		X	
19.01.033	10 CFR 851	Sub.C.851.20(b)(4)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Worker rights and responsibilities.</p> <p>Workers must comply with the requirements of this part, including the worker safety and health program, which are applicable to their own actions and conduct. Workers at a covered workplace have the right, without reprisal, to:</p> <p>(4) Observe monitoring or measuring of hazardous agents and have the results of their own exposure monitoring;</p>	X	X	X	X	X		X	
19.01.034	10 CFR 851	Sub.C.851.20(b)(5)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Worker rights and responsibilities.</p> <p>Workers must comply with the requirements of this part, including the worker safety and health program, which are applicable to their own actions and conduct. Workers at a covered workplace have the right, without reprisal, to:</p> <p>(5) Have a representative authorized by employees accompany the Director or his authorized personnel during the physical inspection of the workplace for the purpose of aiding the inspection. When no authorized employee representative is available, the Director or his authorized representative must consult, as appropriate, with employees on matters of worker safety and health;</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.01.035	10 CFR 851	Sub.C.851.20(b)(6)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Worker rights and responsibilities.</p> <p>Workers must comply with the requirements of this part, including the worker safety and health program, which are applicable to their own actions and conduct. Workers at a covered workplace have the right, without reprisal, to:</p> <p>(6) Request and receive results of inspections and accident investigations;</p>	X	X	X	X	X		X	
19.01.036	10 CFR 851	Sub.C.851.20(b)(7)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Worker rights and responsibilities.</p> <p>Workers must comply with the requirements of this part, including the worker safety and health program, which are applicable to their own actions and conduct. Workers at a covered workplace have the right, without reprisal, to:</p> <p>(7) Express concerns related to worker safety and health;</p>	X	X	X	X	X		X	
19.01.037	10 CFR 851	Sub.C.851.20(b)(8)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Worker rights and responsibilities.</p> <p>Workers must comply with the requirements of this part, including the worker safety and health program, which are applicable to their own actions and conduct. Workers at a covered workplace have the right, without reprisal, to:</p> <p>(8) Decline to perform an assigned task because of a reasonable belief that, under the circumstances, the task poses an imminent risk of death or serious physical harm to the worker coupled with a reasonable belief that there is insufficient time to seek effective redress through normal hazard reporting and abatement procedures; and</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.01.038	10 CFR 851	Sub.C.851.20(b)(9)	<p>Management responsibilities and worker rights and responsibilities.</p> <p>Worker rights and responsibilities.</p> <p>Workers must comply with the requirements of this part, including the worker safety and health program, which are applicable to their own actions and conduct. Workers at a covered workplace have the right, without reprisal, to:</p> <p>(9) Stop work when the worker discovers employee exposures to imminently dangerous conditions or other serious hazards; provided that any stop work authority must be exercised in a justifiable and responsible manner in accordance with procedures established in the approved worker safety and health program.</p>	X	X	X	X	X		X	
19.01.039	10 CFR 851	Sub.B.851.11(d)	<p>Program Requirements</p> <p>Labor Organizations. If a contractor employs or supervises workers who are represented for collective bargaining by a labor organization, the contractor must:</p> <p>(1) Give the labor organization timely notice of the development and implementation of the worker safety and health program and any updates thereto; and</p> <p>(2) Upon timely request, bargain concerning implementation of this part, consistent with the Federal labor laws.</p>	X	X	X	X	X		X	
19.01.01.032	10 CFR 851	Sub.C.App.A.9(a)	<p>Appendix A to Part 851- Worker Safety and Health Functional Areas</p> <p>This appendix establishes the mandatory requirements for implementing the applicable functional areas required by paragraph 851.24.</p> <p>Motor Vehicle Safety</p> <p>Contractors must implement a motor vehicle safety program to protect the safety and health of all drivers and passengers in Government-owned or -leased motor vehicles and powered industrial equipment (i.e., fork trucks, tractors, platform lift trucks, and other similar specialized equipment powered by an electric motor or an internal combustion engine).</p> <p>Note: Paragraph 851.24 is found as Requirement 01.04.162 in FA 01.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.01.01.033	10 CFR 851	Sub.C.App.A.9(b)	Motor Vehicle Safety The contractor must tailor the motor vehicle safety program to the individual DOE site or facility, based on an analysis of the needs of that particular site or facility.	X	X	X	X	X		X	
19.01.01.034	10 CFR 851	Sub.C.App.A.9(c)	Motor Vehicle Safety The motor vehicle safety program must address, as applicable to the contractor's operations: (1) Minimum licensing requirements (including appropriate testing and medical qualification) for personnel operating motor vehicles and powered industrial equipment; (2) Requirements for the use of seat belts and provision of other safety devices; (3) Training for specialty vehicle operators; (4) Requirements for motor vehicle maintenance and inspection; (5) Uniform traffic and pedestrian control devices and road signs; (6) On-site speed limits and other traffic rules; (7) Awareness campaigns and incentive programs to encourage safe driving; and (8) Enforcement provisions.	X	X	X	X	X		X	
19.02.001	10 CFR 851	Sub.C.851.21(a)(1)	Hazard identification and assessment. Contractors must establish procedures to identify existing and potential workplace hazards and assess the risk of associated workers injury and illness. Procedures must include methods to: (1) Assess worker exposure to chemical, physical, biological, or safety workplace hazards through appropriate workplace monitoring;	X	X	X	X	X		X	
19.02.002	10 CFR 851	Sub.C.851.21(a)(2)	Hazard identification and assessment. Contractors must establish procedures to identify existing and potential workplace hazards and assess the risk of associated workers injury and illness. Procedures must include methods to: (2) Document assessment for chemical, physical, biological, and safety workplace hazards using recognized exposure assessment and testing methodologies and using of accredited and certified laboratories;	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.02.003	10 CFR 851	Sub.C.851.21(a)(3)	Hazard identification and assessment. Contractors must establish procedures to identify existing and potential workplace hazards and assess the risk of associated workers injury and illness. Procedures must include methods to: (3) Record observations, testing and monitoring results;	X	X	X	X	X		X	
19.02.004	10 CFR 851	Sub.C.851.21(a)(4)	Hazard identification and assessment. Contractors must establish procedures to identify existing and potential workplace hazards and assess the risk of associated workers injury and illness. Procedures must include methods to: (4) Analyze designs of new facilities and modifications to existing facilities and equipment for potential workplace hazards;	X	X	X	X	X		X	
19.02.005	10 CFR 851	Sub.C.851.21(a)(5)	Hazard identification and assessment. Contractors must establish procedures to identify existing and potential workplace hazards and assess the risk of associated workers injury and illness. Procedures must include methods to: (5) Evaluate operations, procedures, and facilities to identify workplace hazards;	X	X	X	X	X		X	
19.02.006	10 CFR 851	Sub.C.851.21(a)(6)	Hazard identification and assessment. Contractors must establish procedures to identify existing and potential workplace hazards and assess the risk of associated workers injury and illness. Procedures must include methods to: (6) Perform routine job activity-level hazard analyses;	X	X	X	X	X		X	
19.02.007	10 CFR 851	Sub.C.851.21(a)(7)	Hazard identification and assessment. Contractors must establish procedures to identify existing and potential workplace hazards and assess the risk of associated workers injury and illness. Procedures must include methods to: (7) Review site safety and health experience information; and	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.02.008	10 CFR 851	Sub.C.851.21(a)(8)	<p>Hazard identification and assessment.</p> <p>Contractors must establish procedures to identify existing and potential workplace hazards and assess the risk of associated workers injury and illness. Procedures must include methods to:</p> <p>(8) Consider interaction between workplace hazards and other hazards such as radiological hazards.</p>	X	X	X	X	X		X	
19.02.009	10 CFR 851	Sub.C.851.21(b)	<p>Hazard identification and assessment.</p> <p>Contractors must submit to the Head of DOE Field Element a list of closure facility hazards and the established controls within 90 days after identifying such hazards. The Head of DOE Field Element, with concurrence by the Cognizant Secretarial Officer, has 90 days to accept the closure facility hazard controls or direct additional actions to either:</p> <p>(1) Achieve technical compliance; or</p> <p>(2) Provide additional controls to protect the workers.</p> <p>Note: This requirement contains DOE actions that are included for clarity and completeness.</p>	X	X	X	X	X		X	
19.02.010	10 CFR 851	Sub.C.851.21(c)	<p>Hazard identification and assessment.</p> <p>Contractors must perform the activities identified in paragraph (a) of this section, initially to obtain baseline information and as often thereafter as necessary to ensure compliance with the requirements in this Subpart.</p> <p>Note: Paragraph (a) is included as Requirement 19.02.001 to 19.02.008 of this functional area.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.02.011	10 CFR 851	Sub.C.App.A. 3	<p>Appendix A to Part 851—Worker Safety and Health Functional Areas This appendix establishes the mandatory requirements for implementing the applicable functional areas required by paragraph 851.24.</p> <p>Explosives Safety</p> <p>(a) Contractors responsible for the use of explosive materials must establish and implement a comprehensive explosives safety program. (b) Contractors must comply with the policy and requirements specified in the appropriate explosives safety technical standard. (c) Contractors must determine the applicability of the explosives safety directive requirements to research and development laboratory type operations consistent with the DOE level of protection criteria described in the explosives safety directive.</p> <p>Notes: 1) Paragraph 851.24 is found as Requirement 01.04.162 in FA 01. 2) Explosive Safety is also applicable to facility design and is therefore included in FA 07 (Engineering Program) as Requirement 07.02.124 from DOE O 420.1C, Change 1. 3) Liquid Waste Contractor Maintenance and/or Construction Organization occasionally use Powder Actuated Tools (i.e. Hilti-gun) that contain a very small explosive charge, which limits this requirement to the use of these tools only.</p>						(+) Explosives	X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.02.012	10 CFR 851	Sub.C.App.A. 7	<p>Appendix A to Part 851—Worker Safety and Health Functional Areas This appendix establishes the mandatory requirements for implementing the applicable functional areas required by paragraph 851.24.</p> <p>Biological Safety</p> <p>(a) Contractors must establish and implement a biological safety program that:</p> <p>(1) Establishes an Institutional Biosafety Committee (IBC) or equivalent. The IBC must:</p> <p>(i) Review any work with biological etiologic agents for compliance with applicable Centers for Disease Control and Prevention (CDC), National Institutes of Health (NIH), World Health Organization (WHO), United States Department of Agriculture Animal and Plant Health Inspection Service (USDA/APHIS), and other international, Federal, State, and local guidelines and assess the containment level, facilities, procedures, practices, and training and expertise of personnel; and</p> <p>(ii) Review the site’s security, safeguards, and emergency management plans and procedures to ensure they adequately consider work involving biological etiologic agents.</p> <p>(2) Maintains an inventory and status of biological etiologic agents, and provide to the responsible field and area office, through the laboratory IBC (or its equivalent), an annual status report describing the status and inventory of biological etiologic agents and the biological safety program.</p> <p>(3) Provides for submission to the appropriate Head of DOE Field Element, for review and concurrence before transmittal to the Federal Select Agent Program, each Laboratory Registration/Select Agent Program registration application package (APHIS/CDC Form 1, Application for Registration for Possession, Use, and Transfer of Select Agents and Toxins) requesting registration of (or amendment to a previously approved registration) a laboratory facility for the purpose of possessing, using, or transferring biological select agents and/or toxins.</p> <p>(4) Provides for submission to the appropriate Head of DOE Field Element, a copy of each APHIS/CDC Form 2, Request to Transfer Select Agents and Toxins, upon initial submission of APHIS/CDC Form 2 to a vendor or other supplier requesting or ordering a biological select agent or toxin for transfer, receipt, and handling in the registered facility; and submission to the appropriate Head of DOE Field Element the completed copy of the APHIS/CDC Form 2, documenting final disposition and/or destruction of the select agent or toxin, within 10 days of completion of the APHIS/CDC Form 2.</p> <p>(5) Confirms that the site safeguards and security plans and emergency management programs address biological etiologic agents, with particular emphasis on biological select agents.</p> <p>(6) Establishes an immunization policy for personnel working with biological etiologic agents based on the evaluation of risk and benefit of immunization.</p> <p>(b) [Reserved]</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.02.013	10 CFR 851	Sub.C.App.A.10	<p>Appendix A to Part 851- Worker Safety and Health Functional Areas This appendix establishes the mandatory requirements for implementing the applicable functional areas required by paragraph 851.24.</p> <p>Electrical Safety</p> <p>Contractors must implement a comprehensive electrical safety program appropriate for the activities at their site. This program must meet the applicable electrical safety codes and standards referenced in paragraph 851.23.</p> <p>Notes: 1) Paragraph 851.24 is found as Requirement 01.04.162 in FA 01. 2) Paragraph 851.23 is found in Requirement 19.02.01.007 through 19.02.01.016 of this functional area. 3) It is understood that compliance with respect to electrical safety includes the following: a) A commitment by the employer for employees to do electrical work, whenever possible, in a de-energized state; b) A commitment by the employees to use safe electrical work practices and procedures. c) A Lockout/Tagout procedure; d) A justification/approval process and documentation for energized electrical work; and, e) An energized electrical work procedure.</p>	X	X	X	X	X		X	
19.02.01.007	10 CFR 851	Sub.C.851.23(a)(1)	<p>Safety and health standards.</p> <p>Contractors must comply with the following safety and health standards that are applicable to the hazards at their covered workplace:</p> <p>(1) Title 10 Code of Federal Regulations (CFR) 850, "Chronic Beryllium Disease Prevention Program."</p>	X	X	X	X	X		X	
19.02.01.008	10 CFR 851	Sub.C.851.23(a)(2)	<p>Safety and health standards.</p> <p>Contractors must comply with the following safety and health standards that are applicable to the hazards at their covered workplace:</p> <p>(2) Title 29 CFR, Parts 1904.4 through 1904.11, 1904.29 through 1904.33; and 1904.46, "Recording and Reporting Occupational Injuries and Illnesses."</p>	X	X	X	X	X		X	

STANDARDS/REQUIREMENTS IDENTIFICATION DOCUMENT

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.02.01.009	10 CFR 851	Sub.C.851.23(a)(3)	Safety and health standards. Contractors must comply with the following safety and health standards that are applicable to the hazards at their covered workplace: (3) Title 29 CFR, Part 1910, "Occupational Safety and Health Standards," excluding 29 CFR 1910.1096, "Ionizing Radiation, and 29 CFR 1910.1000, Beryllium"	X	X	X	X	X		X	
19.02.01.010	10 CFR 851	Sub.C.851.23(a)(7)	Safety and health standards. Contractors must comply with the following safety and health standards that are applicable to the hazards at their covered workplace: (7) Title 29 CFR, Part 1926, "Safety and Health Regulations for Construction."	X	X	X	X	X		X	
19.02.01.011	10 CFR 851	Sub.C.851.23(a)(9)	Safety and health standards. Contractors must comply with the following safety and health standards that are applicable to the hazards at their covered workplace: (9) American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices," (2016) (incorporated by reference, see 851.27) when the ACGIH Threshold Limit Values (TLVs) are lower (more protective) than permissible exposure limits in 29 CFR part 1910 for general industry and/or part 1926 for construction. When the ACGIH TLVs are used as exposure limits, contractors must nonetheless comply with the other provisions of any applicable expanded health standard found in 29 CFR part 1910 and/or part 1926.	X	X	X	X	X		X	
19.02.01.012	10 CFR 851	Sub.C.851.23(a)(10)	Safety and health standards. Contractors must comply with the following safety and health standards that are applicable to the hazards at their covered workplace: (10) American National Standards Institute (ANSI/ASSE) Z88.2, "American National Standard Practices for Respiratory Protection," (2015) (incorporated by reference, see 851.27)	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
19.02.01.013	10 CFR 851	Sub.C.851.23(a)(11)	Safety and health standards. Contractors must comply with the following safety and health standards that are applicable to the hazards at their covered workplace: (11) ANSI Z136.1, "Safe Use of Lasers," (2014). (incorporated by reference, see 851.27)	X	X	X	X	X		X	
19.02.01.014	10 CFR 851	Sub.C.851.23(a)(12)	Safety and health standards. Contractors must comply with the following safety and health standards that are applicable to the hazards at their covered workplace: (12) ANSI Z49.1, "Safety in Welding, Cutting and Allied Processes," sections 4.3 and E4.3 (2012). (incorporated by reference, see 851.27)	X	X	X	X	X		X	
19.02.01.015	10 CFR 851	Sub.C.851.23(a)(13)	Safety and health standards. Contractors must comply with the following safety and health standards that are applicable to the hazards at their covered workplace: (13) National Fire Protection Association (NFPA) 70, "National Electrical Code," (2017). (incorporated by reference, see 851.27) Notes: a. Code/Standard Evaluation E-CSE-G-00007 has approved a de minimis violation of Article 590.4(J) of the Code. b. The requirements of Article 225, Section 225.56 of the Code are to be met by providing DOE-SR ready access to the subject test reports through Document Control. (See Eng. Std. 16050, Section 5.3.16.)	X	X	X	X	X		X	
19.02.01.016	10 CFR 851	Sub.C.851.23(a)(14)	Safety and health standards. Contractors must comply with the following safety and health standards that are applicable to the hazards at their covered workplace: (14) NFPA 70E, "Standard for Electrical Safety in the Workplace," (2018). (incorporated by reference, see 851.27) Note: In accordance with DOE O G 440.1-1B (Implementation Guide for use with 10 CFR 851 Worker Safety Health Program, 01/17/2018), LW Contractor has adopted the successor 2018 version of NFPA 70E per E-CSE-G-00012, Rev. 0 which is assessed as providing equal or greater worker protection.	X	X	X	X	X		X	

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19.02.01.017	10 CFR 851	Sub.C.851.23(b)	<p>Safety and health standards.</p> <p>Nothing in this part must be construed as relieving a contractor from complying with any additional specific safety and health requirement that it determines to be necessary to protect the safety and health of workers.</p> <p>Note: Does not include specific requirements for occupational, safety and health. Included here for information and clarity.</p>	X	X	X	X	X		X	
19.02.01.018	10 CFR 851	Sub.C.851.27	<p>Materials incorporated by reference.</p> <p>(a) General. We incorporate by reference the following standards into part 851. The material has been approved for incorporation by the Director of the Federal Register under 5 U.S.C. 552(a) and 1 CFR part 51. Any subsequent amendment to a standard by the standard-setting organization will not affect the DOE regulations unless and until amended by DOE. Material is incorporated as it exists on the date of the approval. To use a subsequent amendment to a standard, DOE must publish a document in the Federal Register and the material must be available to the public. All approved material is available for inspection at the U.S. Department of Energy, Office of Environment, Health, Safety and Security, Office of Worker Safety and Health Policy, 1000 Independence Ave. SW, Washington, DC 20585. 301-903- 6061. The material is available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030 or go to: www.archives.gov/federal-register/cfr/ibr-locations.html. < 1 > Standards can be obtained from the sources listed below.</p> <p>(b) ACGIH. American Conference of Governmental Industrial Hygienist, 1330 Kemper Meadow Drive, Cincinnati, OH 45240. Telephone number: 513-742-2020, or go to: http:// www.acgih.org.</p> <p>(1) ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, 2016; IBR approved for 851.23. < 2 ></p> <p>(2) Reserved.</p> <p>(c) ANSI. American National Standards Institute, 1899 L Street NW, 11th Floor, Washington, DC 20036. Telephone number: 202-293-8020, or go to: http://www.ansi.org.</p> <p>(1) ANSI Z49.1-2012, American National Standard Safety in Welding, Cutting and Allied Processes, sections 4.3 and E4.3, ANSI approved March 9, 2012, IBR approved for 851.23. (2) ANSI/ASSE Z88.2-2015, American National Standard Practices for Respiratory Protection, ANSI approved March 4, 2015, IBR approved for 851.23. < 3 ></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
19.02.01.018	10 CFR 851	Sub.C.851.27 (cont'd)	<p>(3) ANSI Z136.1–2014, American National Standard for Safe Use of Lasers, ANSI approved December 10, 2013, IBR approved for 851.23. < 4 ></p> <p>(d) ASME. American Society of Mechanical Engineers, P.O. Box 2300, Fairfield, NJ 07007. Telephone: 800– 843–2763, or got to: http://www.asme.org.</p> <p>(1) ASME Boilers and Pressure Vessel Codes (BPVC) as follows: < 5 ></p> <p>(i) BPVC.I–2015, Section I—Rules for Construction of Power Boilers, 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;</p> <p>(ii) BPVC.II.A–2015, Section II— Materials, Part A—Ferrous Material Specifications (Beginning to SA–450), 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;</p> <p>(iii) BPVC.II.A–2015, Section II— Materials, Part A—Ferrous Material Specifications (SA–451 to End), 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;</p> <p>(iv) BPVC.II.B–2015, Section II— Materials, Part B—Nonferrous Material Specifications, 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;</p> <p>(v) BPVC.II.C–2015, Section II— Materials, Part C—Specification for Welding Rods; Electrodes, and Filler Metals; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;</p> <p>(vi) BPVC.II.D.C–2015, Section II— Materials, Part D—Properties (Customary); 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety</p> <p>(vii) BPVC.II.D.M–2015, Section II— Materials, Part D—Properties (Metric); 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;</p> <p>(viii) BPVC.III.A–2015, Section III— Rules for Construction of Nuclear Facility Components, Appendices; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;</p> <p>(ix) BPVC.III.1.NB–2015, Section III— Rules for Construction of Nuclear Facility Components, Division I— Subsection NB, Class 1 Components; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;</p> <p>(x) BPVC.III.1.NC–2015, Section III— Rules for Construction of Nuclear Facility Components, Division I— Subsection NC, Class 2 Components; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;</p> <p>(xi) BPVC.III.1.ND–2015, Section III— Rules for Construction of Nuclear Facility Components, Division I— Subsection ND, Class 3 Components; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.02.01.018	10 CFR 851	Sub.C.851.27 (cont'd)	(xii) BPVC.III.1.NE–2015, Section III— Rules for Construction of Nuclear Facility Components, Division I— Subsection NE, Class MC Components; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xiii) BPVC.III.1.NF–2015, Section III—Rules for Construction of Nuclear Facility Components, Division I— Subsection NF, Supports; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xiv) BPVC.III.1.NG–2015, Section III—Rules for Construction of Nuclear Facility Components, Division I— Subsection NG, Core Support Structures; 2015 edition, issued July 1 2015; IBR approved for appendix A, section 4, Pressure Safety; (xv) BPVC.III.1.NH–2015, Section III—Rules for Construction of Nuclear Facility Components, Division I— Subsection NH, Class 1 Components in Elevated Temperature Service; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xvi) BPVC.III.NCA–2015, Section III—Rules for Construction of Nuclear Facility; Components, Subsection NCA, General Requirements for Division 1 and Division 2; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xvii) BPVC.III.2–2015, Section III— Rules for Construction of Nuclear Facility Components, Division 2, Code for Concrete Containments; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xviii) BPVC.III.3–2015, Section III— Rules for Construction of Nuclear Facility Components, Division 3, Containments for Transportation and Storage of Spent Nuclear Fuel and High Level Radioactive Material and Waste; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xix) BPVC.III.5–2015, Section III— Rules for Construction of Nuclear Facility Components, Division 5, High Temperature Reactors; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xx) BPVC.IV–2015, Section IV, Rules for Construction of Heating Boilers; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xxi) BPVC.V–2015, Section V, Nondestructive Examination; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xxii) BPVC.VI–2015, Section VI, Recommended Rules for the Care and Operation of Heating Boilers; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.02.01.018	10 CFR 851	Sub.C.851.27 (cont'd)	(xxiii) BPVC.VII-2015, Section VII, Recommended Guidelines for the Care of Power Boilers; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xxiv) BPVC.VIII.1-2015, Section VIII—Rules for Construction of Pressure Vessels, Division 1; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xxv) BPVC.VIII.2-2015, Section VIII—Rules for Construction of Pressure Vessels, Division 2, Alternative Rules; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xxvi) BPVC.VIII.3-2015, Section VIII—Rules for Construction of Pressure Vessels, Division 3, Alternative Rules for Construction of High Pressure Vessels; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xxvii) BPVC.IX-2015, Section IX— Welding, Brazing and Fusing Qualifications, Qualification Standard for Welding, Brazing, and Fusing Procedures; Welders; Brazers; and Welding, Brazing, and Fusing Operators; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xxviii) BPVC.X-2015, Section X, Fiber—Reinforced Plastic Pressure Vessels; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xxix) BPVC.XI-2015, Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xxx) BPVC.XII-2015, Section XII, Rules for Construction and Continued Service of Transport Tanks; issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (xxxi) BPVC.CC.BPV-2015, Code Cases, Boilers and Pressure Vessels; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; and (xxxii) BPVC.CC.NC-2015, Code Cases, Nuclear Components; issued July 1, 2015, IBR approved for appendix A, section 4, Pressure Safety. (2) ASME B31 codes for pressure piping as follows: < 5 > (i) B31.1-2016, Power Piping, ASME Code for Pressure Piping, B31, issued June 30, 2016; IBR approved for appendix A, Section 4, Pressure Safety; (ii) B31.3-2014, Process Piping, ASME Code for Pressure Piping, B31, issued February 27, 2015; IBR approved for appendix A, Section 4, Pressure Safety; (iii) B31.4-2016, Pipeline Transportation Systems for Liquids and Slurries, ASME Code for Pressure Piping, B31, issued March 31, 2016; IBR approved for appendix A, Section 4, Pressure Safety;	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.02.01.018	10 CFR 851	Sub.C.851.27 (cont'd)	<p>(iv) B31.5–2016, Refrigeration Piping and Heat Transfer Components, ASME Code for Pressure Piping, B31, issued June 29, 2016; IBR approved for appendix A, Section 4, Pressure Safety;</p> <p>(v) B31.8–2016, Gas Transmission and Distribution Piping Systems, ASME Code for Pressure Piping, B31, issued September 30, 2014; IBR approved for appendix A, Section 4, Pressure Safety;</p> <p>(vi) B31.8S–2014, Managing System Integrity of Gas Pipelines, ASME Code for Pressure Piping, B31, Supplement to ASME B31.8, issued September 30, 2014; IBR approved for appendix A, Section 4, Pressure Safety;</p> <p>(vii) B31.9–2014, Building Services Piping, ASME Code for Pressure Piping, B31, issued April 28, 2014; IBR approved for appendix A, Section 4, Pressure Safety; and</p> <p>(viii) B31G–2012, Manual for Determining the Remaining Strength of Corroded Pipelines, Supplement to ASME B31 Code for Pressure Piping, issued October 24, 2012; IBR approved for appendix A, Section 4, Pressure Safety.</p> <p>(e) NFPA. The National Fire Protection Association, One Batterymarch Park, Quincy, MA 02169. Telephone: 617–984–7423, or go to: http://www.nfpa.org.</p> <p>(1) NFPA 70, National Electric Code, (2017), issued August 4, 2016; IBR approved for 851.23; < 6 > and</p> <p>(2) NFPA 70E, Standard for Electrical Safety in the Workplace, (2015 edition), issued July 14, 2014; IBR approved for 851.23. < 7 ></p> <p>Notes: The latest Successor Codes (if applicable) from above are identified in appropriate S/RID Requirement numbers listed below and are not maintained in multiple locations. < 1 > does not include specific requirements for occupational safety and health. Included here for information and clarity. < 2 > Included in 19.02.01.011 < 3 > Included in 19.02.01.014 < 4 > Included in 19.02.01.013 < 5 > Included in 07.02.105 < 6 > Included in 19.02.01.015 < 7 > Included in 19.02.01.016</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.03.01.006	10 CFR 851	Sub.C.App.A. 6(a)	<p>Appendix A to Part 851- Worker Safety and Health Functional Areas This appendix establishes the mandatory requirements for implementing the applicable functional areas required by paragraph 851.24.</p> <p>Industrial Hygiene</p> <p>Contractors must implement a comprehensive industrial hygiene program that includes at least the following elements:</p> <p>Initial or baseline surveys and periodic resurveys and/or exposure monitoring as appropriate of all work areas or operations to identify and evaluate potential worker health risks;</p> <p>Note: Paragraph 851.24 is found as Requirement 01.04.162 in FA 01</p>	X	X	X	X	X		X	
19.03.01.007	10 CFR 851	Sub.C.App.A. 6(b)	<p>Industrial Hygiene</p> <p>Contractors must implement a comprehensive industrial hygiene program that includes at least the following elements:</p> <p>Coordination with planning and design personnel to anticipate and control health hazards that proposed facilities and operations would introduce;</p>	X	X	X	X	X		X	
19.03.01.008	10 CFR 851	Sub.C.App.A. 6(c)	<p>Industrial Hygiene</p> <p>Contractors must implement a comprehensive industrial hygiene program that includes at least the following elements:</p> <p>Coordination with cognizant occupational medical, environmental, health physics, and work planning professionals;</p>	X	X	X	X	X		X	
19.03.01.009	10 CFR 851	Sub.C.App.A. 6(d)	<p>Industrial Hygiene</p> <p>Contractors must implement a comprehensive industrial hygiene program that includes at least the following elements:</p> <p>Policies and procedures to mitigate the risk from identified and potential occupational carcinogens;</p>	X	X	X	X	X		X	
19.03.01.010	10 CFR 851	Sub.C.App.A. 6(e)	<p>Industrial Hygiene</p> <p>Contractors must implement a comprehensive industrial hygiene program that includes at least the following elements:</p> <p>Professionally and technically qualified industrial hygienists to manage and implement the industrial hygiene program; and</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.03.01.011	10 CFR 851	Sub.C.App.A.6(f)	<p>Industrial Hygiene</p> <p>Contractors must implement a comprehensive industrial hygiene program that includes at least the following elements:</p> <p>Use of respiratory protection equipment tested under the DOE Respirator Acceptance Program for Supplied-Air Suits when the National Institute for Occupational Safety and Health-approved respiratory protection does not exist for DOE tasks that require such equipment. For security operations military type masks for respiratory protection by security personnel is acceptable.</p>	X	X	X	X	X		X	
19.03.02.066	10 CFR 851	Sub.C.851.22(a)	<p>Hazard prevention and abatement.</p> <p>Contractors must establish and implement a hazard prevention and abatement process to ensure that all identified and potential hazards are prevented or abated in a timely manner.</p> <p>(1) For hazards identified either in the facility design or during the development of procedures, controls must be incorporated in the appropriate facility design or procedure.</p> <p>(2) For existing hazards identified in the workplace, contractors must:</p> <p>(i) Prioritize and implement abatement actions according to the risk to workers;</p> <p>(ii) Implement interim protective measures pending final abatement; and</p> <p>(iii) Protect workers from dangerous safety and health conditions;</p>	X	X	X	X	X		X	
19.03.02.067	10 CFR 851	Sub.C.851.22(b)	<p>Hazard prevention and abatement.</p> <p>Contractors must select hazard controls based on the following hierarchy:</p> <p>(1) Elimination or substitution of the hazards where feasible and appropriate;</p> <p>(2) Engineering controls where feasible and appropriate;</p> <p>(3) Work practices and administrative controls that limit worker exposures; and</p> <p>(4) Personal protective equipment.</p>	X	X	X	X	X		X	
19.03.02.068	10 CFR 851	Sub.C.851.22(c)	<p>Hazard prevention and abatement.</p> <p>Contractors must address hazards when selecting or purchasing equipment, products, and services.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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	
19.03.02.069	DOEO422.1-AChg2	Att.2.2.i.(1)(a)	<p>SPECIFIC REQUIREMENTS</p> <p>Lockout and Tagouts. (DOE-STD-1030-96, Guide to Good Practices for Lockouts and Tagouts)</p> <p>(1) The operator must establish and implement operations practices that address the following elements for the installation and removal of lockout/tagouts for the protection of personnel:</p> <p>(a) Procedures, roles and responsibilities associated with the development, documentation, review, installation, and removal of a lockout/tagout;</p> <p>1. Procedures and/or Lockout/Tagout Program implements OSHA Rules and is designed to control hazardous energy and materials during servicing, maintenance, or whenever unexpected operation or energization could cause injury.</p> <p>2. Procedures include provisions that only authorized, qualified personnel perform lockout/tagouts.</p> <p>3. Personnel are trained on their responsibilities regarding tags and locks.</p> <p>4. Procedures include provisions for documenting lockout/tagouts, including:</p> <ul style="list-style-type: none"> * An indexing/numbering system, * Identification of the reason for the lockout/tagout, * Applicable work packages or other documents, * Equipment covered, * All components and their position, * Authorization for installing the lockout/tagout, * Placement and verification of locks/tags, * Authorization for removing the entire lockout/tagout or individual locks/tags, * Documenting the removal of locks/tags, * Designating the component position after clearing locks/tags, and * Documenting the repositioning of components after clearing locks/tags. <p>5. Procedures designate the manager responsible for lockout/tagout records.</p> <p>6. Procedures include provisions for periodic management reviews of lockout/tagout records.</p> <p>7. Procedures include provisions for checking component positions of equipment outside the lockout/tagout necessary to support restoring locked/tagged equipment to service.</p> <p>8. Procedures include periodic audits of active lockout/tagouts to ensure locks and tags are properly attached and components are in the correct position.</p>	X	X					(-) SU(BC)	X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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	
19.03.02.069	DOEO422.1-AChg2	Att.2.2.i.(1)(a) (cont'd)	<p>9. Procedures include techniques for verifying the position of locked components, with preference for the use of a hands-on check or position indicator.</p> <p>10. Procedures include provisions for authorizing and documenting the repositioning of locked components for a lockout/tagout.</p> <p>11. Procedures include provisions for returning removed tags to the authorizing manager and documenting the manager's final check that all locks and tags are removed.</p> <p>12. Procedures include provisions that permit, but discourage, temporary clearance of locks/tags per OSHA Rules.</p> <p>Note: The appropriate detailed attributes from Appendix A of Attachment 2 have been included in this requirement.</p>	X	X					(-) SU(BC)	X	
19.03.02.070	DOEO422.1-AChg2	Att.2.2.i.(1)(b)	<p>SPECIFIC REQUIREMENTS</p> <p>Lockout and Tagouts. (DOE-STD-1030-96, Guide to Good Practices for Lockouts and Tagouts)</p> <p>(1) The operator must establish and implement operations practices that address the following elements for the installation and removal of lockout/tagouts for the protection of personnel:</p> <p>(b) Compliance with Occupational Safety and Health Administration Rules, 29 CFR Part 1910 and/or 29 CFR Part 1926, requirements for the protection of workers using lockout/tagout;</p> <p>Notes:</p> <p>1) The appropriate detailed attributes from Appendix A of Attachment 2 have been included in this requirement.</p> <p>2) For Lockout/tagout requirements for equipment protection, see FA 09 (Conduct of Operations) requirements 09.03.04.023.</p>	X	X					(-) SU(BC)	X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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	
19.03.02.071	DOEO422.1-AChg2	Att.2.2.i.(1)(c)	<p>SPECIFIC REQUIREMENTS</p> <p>Lockout and Tagouts. (DOE-STD-1030-96, Guide to Good Practices for Lockouts and Tagouts)</p> <p>(c) Compliance with National Fire Protection Association Standard 70E electrical safety requirements using lockout/tagout;</p> <p>Notes: 1) The appropriate detailed attributes from Appendix A of Attachment 2 have been included in this requirement. 2) For Lockout/tagout requirements for equipment protection, see FA 09 (Conduct of Operations) requirements 09.03.04.023.</p>	X	X					(-) SU(BC)	X	
19.03.02.072	DOEO422.1-AChg2	Att.2.2.i.(1)(d)	<p>SPECIFIC REQUIREMENTS</p> <p>Lockout and Tagouts. (DOE-STD-1030-96, Guide to Good Practices for Lockouts and Tagouts)</p> <p>(d) Description and control of the tags, locks, lockboxes, chains, and other components utilized for the lockout/tagout program; and</p> <p>1. Procedures contain provisions that when key operated locks are used, access to the keys is restricted to authorized personnel. 2. Procedures contain provisions that when key operated locks are used, keys are readily available to appropriate personnel.</p> <p>Notes: 1) The appropriate detailed attributes from Appendix A of Attachment 2 have been included in this requirement. 2) For Lockout/tagout requirements for equipment protection, see FA 09 (Conduct of Operations) requirements 09.03.04.023.</p>	X	X					(-) SU(BC)	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	
19.03.02.073	DOEO422.1-AChg2	Att.2.2.i.(1)(e)	<p>SPECIFIC REQUIREMENTS</p> <p>Lockout and Tagouts. (DOE-STD-1030-96, Guide to Good Practices for Lockouts and Tagouts)</p> <p>(e) Training and qualification in lockout/tagout and special considerations for DOE facilities, e.g. operational limitations, or seismic issues from the mass of locks or chains.</p> <p>1. Training programs comply with applicable OSHA Rules and support qualification of personnel to perform lockout/tagouts. 2. Training includes material on how lockouts can hinder facility operations, particularly when local component operations are necessary while remote controls are locked out. 3. Training includes material on how the mass of locks or chains may impair seismic design features of components.</p> <p>Notes: 1) The appropriate detailed attributes from Appendix A of Attachment 2 have been included in this requirement. 2) For Lockout/tagout requirements for equipment protection, see FA 09 (Conduct of Operations) requirements 09.03.04.023.</p>	X	X					(-) SU(BC)	X	
19.04.025	10 CFR 851	Sub.C.App.A.8(a)	<p>Appendix A to Part 851- Worker Safety and Health Functional Areas This appendix establishes the mandatory requirements for implementing the applicable functional areas required by paragraph 851.24.</p> <p>Occupational Medicine</p> <p>Contractors must establish and provide comprehensive occupational medicine services to workers employed at a covered work place who:</p> <p>(1) Work on a DOE site for more than 30 days in a 12-month period; or (2) Are enrolled for any length of time in a medical or exposure monitoring program required by this rule and/or any other applicable Federal, State or local regulation, or other obligation.</p> <p>Note: Paragraph 851.24 is found as Requirement 01.04.162 in FA 01.</p>	X	X	X	X	X			X	
19.04.026	10 CFR 851	Sub.C.App.A.8(b)	<p>Occupational Medicine</p> <p>The occupational medicine services must be under the direction of a graduate of a school of medicine or osteopathy who is licensed for the practice of medicine in the state in which the site is located.</p>	X	X	X	X	X			X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.04.027	10 CFR 851	Sub.C.App.A. 8(c)	Occupational Medicine Occupational medical physicians, occupational health nurses, physician's assistants, nurse practitioners, psychologists, employee assistance counselors, and other occupational health personnel providing occupational medicine services must be licensed, registered, or certified as required by Federal or State law where employed.	X	X	X	X	X		X	
19.04.028	10 CFR 851	Sub.C.App.A. 8(d)	Occupational Medicine Contractors must provide the occupational medicine providers access to hazard information by promoting its communication, coordination, and sharing among operating and environment, safety, and health protection organizations. (1) Contractors must provide the occupational medicine providers with access to information on the following: (i) Current information about actual or potential work-related site hazards (chemical, radiological, physical, biological, or ergonomic); (ii) Employee job-task and hazard analysis information, including essential job functions; (iii) Actual or potential work-site exposures of each employee; and (iv) Personnel actions resulting in a change of job functions, hazards or exposures. (2) Contractors must notify the occupational medicine providers when an employee has been absent because of an injury or illness for more than 5 consecutive workdays (or an equivalent time period for those individuals on an alternative work schedule); (3) Contractors must provide the occupational medicine provider information on, and the opportunity to participate in, worker safety and health team meetings and committees; (4) Contractors must provide occupational medicine providers access to the workplace for evaluation of job conditions and issues relating to workers' health.	X	X	X	X	X		X	
19.04.029	10 CFR 851	Sub.C.App.A. 8(e)	Occupational Medicine A designated occupational medicine provider must: (1) Plan and implement the occupation medicine services; and (2) Participate in worker protection teams to build and maintain necessary partnerships among workers, their representatives, managers, and safety and health protection specialists in establishing and maintaining a safe and healthful workplace.	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.04.01.004	10 CFR 851	Sub.C.App.A.8(g)	<p>Occupational Medicine</p> <p>The occupational medicine services provider must determine the content of the worker health evaluations, which must be conducted under the direction of a licensed physician, in accordance with current sound and acceptable medical practices and all pertinent statutory and regulatory requirements, such as the Americans with Disabilities Act.</p> <p>(1) Workers must be informed of the purpose and nature of the medical evaluations and tests offered by the occupational medicine provider.</p> <p>(i) The purpose, nature and results of evaluations and tests must be clearly communicated verbally and in writing to each worker provided testing;</p> <p>(ii) The communication must be documented in the worker's medical record; and</p> <p>(2) The following health evaluations must be conducted when determined necessary by the occupational medicine provider for the purpose of providing initial and continuing assessment of employee fitness for duty.</p> <p>(i) At the time of employment entrance or transfer to a job with new functions and hazards, a medical placement evaluation of the individual's general health and physical and psychological capacity to perform work will establish a baseline record of physical condition and assure fitness for duty.</p> <p>(ii) Periodic, hazard-based medical monitoring or qualification-based fitness for duty evaluations required by regulations and standards, or as recommended by the occupational medicine services provider, will be provided on the frequency required.</p> <p>(iii) Diagnostic examinations will evaluate employee's injuries and illnesses to determine work-relatedness, the applicability of medical restrictions, and referral for definitive care, as appropriate.</p> <p>(iv) After a work-related injury or illness or an absence due to any injury or illness lasting 5 or more consecutive workdays (or an equivalent time period for those individuals on an alternative work schedule), a return to work evaluation will determine the individual's physical and psychological capacity to perform work and return to duty.</p> <p>(v) At the time of separation from employment, individuals shall be offered a general health evaluation to establish a record of physical condition.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.04.02.007	10 CFR 851	Sub.C.App.A. 8(j)	Occupational Medicine The occupational medicine provider must include measures to identify and manage the principal preventable causes of premature morbidity and mortality affecting worker health and productivity. (1) The contractor must include programs to prevent and manage these causes of morbidity when evaluations demonstrate their cost effectiveness. (2) Contractors must make available to the occupational medicine provider appropriate access to information from health, disability, and other insurance plans (de-identified as necessary) in order to facilitate this process.	X	X	X	X	X		X	
19.04.02.008	10 CFR 851	Sub.C.App.A. 8(k)	Occupational Medicine The occupational medicine services provider must review and approve the medical and behavioral aspects of employee counseling and health promotional programs, including the following types: (1) Contractor-sponsored or contractor supported EAPs; (2) Contractor-sponsored or contractor supported alcohol and other substance abuse rehabilitation programs; and (3) Contractor-sponsored or contractor supported wellness programs. (4) The occupational medicine services provider must review the medical aspects of immunization programs, blood-borne pathogens programs, and bio-hazardous waste programs to evaluate their conformance to applicable guidelines. (5) The occupational medicine services provider must develop and periodically review medical emergency response procedures included in site emergency and disaster preparedness plans. The medical emergency responses must be integrated with nearby community emergency and disaster plans.	X	X	X	X	X		X	
19.04.03.004	10 CFR 851	Sub.C.App.A. 8(h)	Occupational Medicine The occupational medicine provider must monitor ill and injured workers to facilitate their rehabilitation and safe return to work and to minimize lost time and its associated costs. (1) The occupational medicine provider must place an individual under medical restrictions when health evaluations indicate that the worker should not perform certain job tasks. The occupational medicine provider must notify the worker and contractor management when employee work restrictions are imposed or removed.	X	X	X	X	X		X	

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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
19.04.03.005	10 CFR 851	Sub.C.App.A. 8(i)	Occupational Medicine Occupational medicine provider physician and medical staff must, on a timely basis, communicate results of health evaluations to management and safety and health protection specialists to facilitate the mitigation of worksite hazards.	X	X	X	X	X		X	
19.04.04.002	10 CFR 707	707. 1	Purpose. The Department of Energy (DOE) promulgates this part in order to protect the environment, maintain public health and safety, and safeguard the national security. This part establishes policies, criteria, and procedures for developing and implementing programs that help to maintain a workplace free from the use of illegal drugs. It applies to DOE contractors and subcontractors performing work at sites owned or controlled by DOE and operated under the authority of the Atomic Energy Act of 1954, as amended, and to individuals with unescorted access to the control areas of certain DOE reactors. The procedures include detection of the use of illegal drugs by current or prospective contractor employees in testing designated positions.	X	X	X	X	X		X	
19.04.04.003	10 CFR 707	707. 2	Scope. (a) This part applies to the following contracts with DOE, at sites owned or controlled by DOE which are operated under the authority of the Atomic Energy Act of 1954, as amended: (1) Management and operating contracts; and (2) Other contracts or subcontracts with a value of \$25,000 or more, and which have been determined by DOE to involve: (i) Access to or handling of classified information or special nuclear materials; (ii) High risk of danger to life, the environment, public health and safety, or national security; or (iii) Transportation of hazardous materials to or from a DOE site. (b) Individuals described in § 707.7 (b) and (c) will be subject to random drug testing; to drug testing as a result of an occurrence, as described in § 707.9; and to drug testing on the basis of reasonable suspicion, as described in § 707.10. (c) Applicants for employment in testing designated positions will be tested in accordance with § 707.8.	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.04.04.004	10 CFR 707	707. 3	Policy. It is the policy of DOE to conduct its programs so as to protect the environment, maintain public health and safety, and safeguard the national security. This policy is advanced in this rule by requiring contractors and subcontractors within its scope to adopt procedures consistent with the baseline requirements of this part, and to impose significant sanctions on individuals in testing designated positions or with unescorted access to the control areas of certain DOE reactors, who use or are involved with illegal drugs.	X	X	X	X	X		X	
19.04.04.005	10 CFR 707	707. 5(a)(1)	(a) Each contractor subject to this part shall develop a written program consistent with the requirements of this part and the guidelines of the Department of Health and Human Services and subsequent amendments to those guidelines ("Mandatory Guidelines for Federal Workplace Drug Testing Programs," 53 FR 11970, April 11, 1988; hereinafter "HHS Mandatory Guidelines"), and applicable to appropriate DOE sites. Such a program shall be submitted to DOE for review and approval, and shall include at least the following baseline elements: (1) Prohibition of the use; possession, sale, distribution, or manufacture of illegal drugs at sites owned or controlled by DOE;	X	X	X	X	X		X	
19.04.04.006	10 CFR 707	707. 5(a)(2)	(a) Each contractor subject to this part shall develop a written program consistent with the requirements of this part and the guidelines of the Department of Health and Human Services and subsequent amendments to those guidelines ("Mandatory Guidelines for Federal Workplace Drug Testing Programs," 53 FR 11970, April 11, 1988; hereinafter "HHS Mandatory Guidelines"), and applicable to appropriate DOE sites. Such a program shall be submitted to DOE for review and approval, and shall include at least the following baseline elements: (2) Plans for instruction of supervisors and employees concerning problems of substance abuse, including illegal drug use, and the availability of assistance through the employee assistance program and referrals to other resources, and the penalties that may be imposed upon employees for drug-related violations occurring on the DOE owned or controlled site;	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
19.04.04.007	10 CFR 707	707. 5(a)(3)	(a) Each contractor subject to this part shall develop a written program consistent with the requirements of this part and the guidelines of the Department of Health and Human Services and subsequent amendments to those guidelines ("Mandatory Guidelines for Federal Workplace Drug Testing Programs," 53 FR 11970, April 11, 1988; hereinafter "HHS Mandatory Guidelines"), and applicable to appropriate DOE sites. Such a program shall be submitted to DOE for review and approval, and shall include at least the following baseline elements: (3) Provision for distribution to all employees engaged in performance of the contract on the DOE owned or controlled site of a statement which sets forth the contractor's policies prohibiting the possession, sale, distribution, or manufacture of illegal drugs at the DOE owned or controlled site. The statement shall include notification to all employees that as a condition of employment under the contract, the employee will: (i) Abide by the terms of the statement; and (ii) Notify the employer in writing of the employee's conviction under a criminal drug statute for a violation occurring on the DOE owned or controlled site no later than 10 calendar days after such conviction;	X	X	X	X	X		X	
19.04.04.008	10 CFR 707	707. 5(a)(4)	(a) Each contractor subject to this part shall develop a written program consistent with the requirements of this part and the guidelines of the Department of Health and Human Services and subsequent amendments to those guidelines ("Mandatory Guidelines for Federal Workplace Drug Testing Programs," 53 FR 11970, April 11, 1988; hereinafter "HHS Mandatory Guidelines"), and applicable to appropriate DOE sites. Such a program shall be submitted to DOE for review and approval, and shall include at least the following baseline elements: (4) Provision for written notification to the DOE contracting officer within 10 calendar days after receiving notice under paragraph (a)(3)(ii) of this section, from an employee or otherwise receiving actual notice of an employee's conviction of a drug-related offense;	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
19.04.04.009	10 CFR 707	707. 5(a)(5)	(a) Each contractor subject to this part shall develop a written program consistent with the requirements of this part and the guidelines of the Department of Health and Human Services and subsequent amendments to those guidelines ("Mandatory Guidelines for Federal Workplace Drug Testing Programs," 53 FR 11970, April 11, 1988; hereinafter "HHS Mandatory Guidelines"), and applicable to appropriate DOE sites. Such a program shall be submitted to DOE for review and approval, and shall include at least the following baseline elements: (5) Provision for imposing one of the following actions, with respect to any employee who is convicted of a drug-related violation occurring in the workplace, within 30 calendar days after receiving such notice of conviction under paragraph (a)(4) of this section; (i) Taking appropriate personnel action against such employee, up to and including termination; or (ii) Offering such employee, consistent with the contractor's policies, an opportunity to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency. If the employee does not participate in such a rehabilitation program, the contractor must take appropriate personnel action, up to and including termination, in accordance with the contractor's policies.	X	X	X	X	X		X	
19.04.04.010	10 CFR 707	707. 5(a)(6)	(a) Each contractor subject to this part shall develop a written program consistent with the requirements of this part and the guidelines of the Department of Health and Human Services and subsequent amendments to those guidelines ("Mandatory Guidelines for Federal Workplace Drug Testing Programs," 53 FR 11970, April 11, 1988; hereinafter "HHS Mandatory Guidelines"), and applicable to appropriate DOE sites. Such a program shall be submitted to DOE for review and approval, and shall include at least the following baseline elements: (6) Commitment to make a good faith effort to maintain a workplace free of substance abuse through implementation of paragraphs (a)(1) through (a)(5) of this section.	X	X	X	X	X		X	
19.04.04.011	10 CFR 707	707. 5(b)(1)	(b) In addition, the following baseline elements must be included in programs developed by contractors that have identified testing designated positions (see 707.7(b)); (1) Notification to DOE of the positions subject to drug testing; Note: 707.7(b) is found as Requirement 19.04.04.024 of this Functional Area.	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
19.04.04.012	10 CFR 707	707. 5(b)(2)	(b) In addition, the following baseline elements must be included in programs developed by contractors that have identified testing designated positions (see 707.7(b)); (2) Prohibition of individuals in testing designated positions who are not free from the use of illegal drugs from working in those positions; Note: 707.7(b) is found as Requirement 19.04.04.024 of this Functional Area.	X	X	X	X	X		X	
19.04.04.013	10 CFR 707	707. 5(b)(3)	(b) In addition, the following baseline elements must be included in programs developed by contractors that have identified testing designated positions (see 707.7(b)); (3) Sanctions for individuals in testing designated positions who violate the prohibitions of paragraphs (a)(1) or (b)(2) of this section; Note: 707.7(b) is found as Requirement 19.04.04.024 of this Functional Area. Paragraph (a)(1) is found as Requirement 19.04.04.005 of this Functional Area. Paragraph (b)(2) is found as Requirement 19.04.04.012 of this Functional Area.	X	X	X	X	X		X	

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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
19.04.04.014	10 CFR 707	707. 5(b)(4)	<p>(b) In addition, the following baseline elements must be included in programs developed by contractors that have identified testing designated positions (see 707.7(b));</p> <p>(4) Provision for:</p> <p>(i) Notification, at least 60 days in advance of initiating testing, to those individuals subject to drug testing, unless the contractor is currently conducting a testing program.</p> <p>(ii) Urine drug analysis of applicants for testing designated positions before final selection for employment or assignment;</p> <p>(iii) Random urine drug analysis for employees in testing designated positions;</p> <p>(iv) Urine drug analysis for employees in testing designated positions on the basis of reasonable suspicion, as a result of an occurrence, or as a follow-up to rehabilitation; and</p> <p>(v) Random urine drug analysis and urine drug analysis on the basis of reasonable suspicion or as the result of an occurrence, for any individual with unescorted access to the control areas of certain DOE reactors (see 707.7(c)).</p> <p>(vi) Written notice to the contractor by an employee in a testing designated position of a drug-related arrest or conviction, or receipt of a positive drug test result regarding that employee, as soon as possible but within 10 calendar days of such arrest, conviction, or receipt; and</p> <p>(vii) Appropriate action, if any, to be taken regarding an employee who:</p> <p>(A) is arrested for or convicted of a drug-related offense; or</p> <p>(B) has a positive drug test result (consistent with 707.14).</p> <p>Note: 707.7(b) is found as Requirement 19.04.04.024 of this Functional Area. Paragraph 707.7(c) is found as Requirement 19.04.04.017 of this Functional Area. Paragraph 707.14 is found as Requirements 19.04.04.037 – 19.04.04.043 of this Functional Area.</p>	X	X	X	X	X		X	
19.04.04.015	10 CFR 707	707. 5(b)(5)	<p>(b) In addition, the following baseline elements must be included in programs developed by contractors that have identified testing designated positions (see 707.7(b));</p> <p>(5) Provision to employees of the opportunity for rehabilitation, consistent with the contractor's policies, under circumstances as provided in this part (see 707.14(b));</p> <p>Note: 707.7(b) is found as Requirement 19.04.04.024 of this Functional Area. Paragraph 707.14(b) is found as Requirement 19.04.04.038 of this Functional Area.</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
19.04.04.016	10 CFR 707	707. 5(b)(6)	(b) In addition, the following baseline elements must be included in programs developed by contractors that have identified testing designated positions (see 707.7(b)); (6) Immediate notification to DOE security officials whenever the circumstances in connection with procedures under this part raise a security concern as provided in DOE Orders, rules and regulations; such circumstances including, but are not necessarily limited to, a determination that an individual holding a DOE access authorization has used an illegal drug. Note: 707.7(b) is found as Requirement 19.04.04.024 of this Functional Area.	X	X	X	X	X		X	
19.04.04.017	10 CFR 707	707. 5(c)	(c) Each contractor's written policy and procedures under this part shall comply with the requirements of 10 CFR part 710, "Criteria and Procedures for Determining Eligibility for Access to Classified Matter or Significant Quantities of Special Nuclear Material."	X	X	X	X	X		X	
19.04.04.018	10 CFR 707	707. 5(d)	(d) Contractors are required to submit all subcontracts they believe to be within the scope of this part to DOE for a determination as to whether the subcontract falls within the scope of this part. Subcontractors so determined to be within the scope of this part shall be required to agree to comply with its requirements, as a condition of eligibility for performing the subcontract work. Each subcontractor subject to this part shall submit its plan to the appropriate prime contractor for approval; the contractor shall be responsible for periodically monitoring the implementation of the subcontractor's program for effectiveness and compliance with this part.	X	X	X	X	X		X	
19.04.04.019	10 CFR 707	707. 5(e)	(e) In reviewing each proposed workplace substance abuse plan, DOE shall decide whether the program meets the applicable baseline requirements established by this part. The responsible DOE official will reject proposed workplace substance abuse plans that are deemed not to meet the baseline requirements. DOE shall provide the contractor with a written notification regarding the decision as to the acceptability of the plan. Nothing in this rule is intended to prohibit any contractor subject to this part from implementing workplace substance abuse requirements additional to those of the baseline, including drug testing employees and applicants for employment in any position and testing for any illegal drugs. However, the contractor shall inform DOE of such additional requirements at least 30 days prior to implementation.	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
19.04.04.020	10 CFR 707	707. 5(g)	<p>(f) DOE shall periodically review and evaluate each contractor’s program, including the contractor’s oversight of the covered subcontractors, to assure effectiveness and compliance with this part.</p> <p>(g) Contractors or proposers will submit their program to DOE for review within 30 days of notification by DOE that the contract or proposed contract falls within the scope of this part. Workplace substance abuse programs, as provided in this part, shall be implemented within 30 days of approval by DOE. DOE may grant an extension to the notification or implementation period, as warranted by local conditions. Implementation may require changes to collective bargaining agreements as discussed in § 707.15 of this part.</p> <p>(h) To assure consistency of application, DOE shall periodically review designated contracts and testing designated positions included in the workplace substance abuse plans approved by DOE. DOE will also periodically review implementation of programs conducted by prime contractors, to assure consistency of application among prime contracts (and subcontracts where appropriate) throughout DOE.</p> <p>(i) This part preempts any State or local law, rule, regulation, order, or standard to the extent that:</p> <p>(1) compliance with both the State or local requirement and any requirements in this part is not possible; or</p> <p>(2) compliance with the State or local requirement is an obstacle to the accomplishments and execution of any requirement in this part.</p> <p>Notes:</p> <p>1. 707.15 is found as Requirement 19.04.04.044 of this Functional Area.</p> <p>2. (f), (h) and (i) are not requirements for SRR. They are included for continuity.</p>	X	X	X	X	X		X	
19.04.04.021	10 CFR 707	707. 6(a)	<p>Contractor programs shall include the following or appropriate alternatives:</p> <p>(a) Employee assistance programs emphasizing preventive services, education, short-term counseling, coordination and referral to outside agencies, and follow-up. These services shall be available to all contractor on-site employees involved in the DOE contract. The contractor has no obligation to pay the costs of any individual's counseling, treatment, or rehabilitation beyond those services provided by the contractor's employee assistance program, except as provided for in the contractor's benefits programs. DOE undertakes no obligation to pay for any individual's counseling, rehabilitation, or treatment, unless specifically provided for by contract.</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
19.04.04.022	10 CFR 707	707. 6(b)	<p>Contractor programs shall include the following or appropriate alternatives:</p> <p>(b) Education and training programs for on-site employees on a periodic basis, which will include, at a minimum, the following subjects:</p> <p>(1) For all on-site employees: Health aspects of substance abuse, especially illegal drug use; safety, security, and other workplace-related problems caused by substance abuse, especially illegal drug use; the provisions of this rule; the employer's policy; and available employee assistance services.</p> <p>(2) For managers and supervisors:</p> <p>(i) The subjects listed in paragraph (b)(1) of this section;</p> <p>(ii) Recognition of deteriorating job performance or judgment, or observation of unusual conduct which may be the result of possible illegal drug use;</p> <p>(iii) Responsibility to intervene when there is deterioration in performance, or observed unusual conduct, and to offer alternative courses of action that can assist the employee in returning to satisfactory performance, judgment, or conduct, including seeking help from the employee assistance program;</p> <p>(iv) Appropriate handling and referral of employees with possible substance abuse problems, especially illegal drug use; and</p> <p>(v) Employer policies and practices for giving maximum consideration to the privacy interests of employees and applicants.</p> <p>Note: Paragraph (b)(1) is part of this requirement.</p>	X	X	X	X	X		X	
19.04.04.023	10 CFR 707	707. 7(a)	<p>(a)(1) Each workplace substance abuse program will provide for random testing for evidence of the use of illegal drugs of employees in testing designated positions identified in this section.</p> <p>(2) Programs developed under this part for positions identified in paragraph (b)(3) of this section shall provide for random tests at a rate equal to 50 percent of the total number of employees in testing designated positions for each 12 month period. Employees in the positions identified in paragraphs (b)(1), (b)(2), and (c) of this section will be subject to random testing at a rate equal to 100 percent of the total number of employees identified, and those identified in paragraphs (b)(1) and (b)(2) of this section may be subject to additional drug tests.</p> <p>Note: Paragraphs (b)(3) and (b)(2) are included in Requirement 19.04.04.024 of this Functional Area. Paragraph (c) is included in Requirement 19.04.04.025 of this Functional Area.</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
19.04.04.024	10 CFR 707	707. 7(b)	(b) The testing designated positions subject to random drug testing are: (1) Positions determined to be covered by the Human Reliability Program (HRP), codified at 10 CFR part 712. HRP employees will be subject to the drug testing standards of this part and any additional requirements of the HRP rule. (2) Positions identified by the contractor which entail duties where failure of an employee adequately to discharge his or her position could significantly harm the environment, public health or safety, or national security, such as: (i) Pilots; (ii) Firefighters; (iii) Protective force personnel, exclusive of those covered in paragraphs (b)(1) or (b)(2) of this section, in positions involving use of firearms where the duties also require potential contact with, or proximity to, the public at large; (iv) Personnel directly engaged in construction, maintenance, or operation of nuclear reactors; or (v) Personnel directly engaged in production, use, storage, transportation, or disposal of hazardous materials sufficient to cause significant harm to the environment or public health and safety. (3) Other positions determined by the DOE, after consultation with the contractor, to have the potential to significantly affect the environment, public health and safety, or national security.	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
19.04.04.025	10 CFR 707	707. 7(c)	(c) Each contractor shall require random testing of any individual, whether or not an employee, who is allowed unescorted access to the control areas of the following DOE reactors: Advanced Test Reactor (ATR); C Production Reactor (C); Experimental Breeder Reactor II (EBR-II); Fast Flux Test Facility (FFTF); High Flux Beam Reactor (HFBR); High Flux Isotope Reactor (HFIR); K Production Reactor (K); L Production Reactor (L); N Production Reactor (N); Oak Ridge Research Reactor (ORR); and P Production Reactor (P). A confirmed positive test shall result in such an individual being denied unescorted access. If such an individual is not an employee of the contractor, that individual may be granted unescorted access only after the individual meets the conditions established in 707.14(d) of this part. If, after restoration of unescorted access, such an individual is determined to have used illegal drugs for a second time, unescorted access shall be denied for a period of not less than three (3) years. Such an individual thereafter shall be granted unescorted access only upon a determination by DOE that a grant of unescorted access to the individual presents no unacceptable safety or security risk. If such an individual is an employee, that individual is subject to the other requirements of this part, including appropriate disciplinary measures. Note: Paragraph 707.14(d) is included in Requirement 19.04.04.040 of this Functional Area.	X	X	X	X	X		X	
19.04.04.026	10 CFR 707	707. 7(d)	(d) A position otherwise subject to testing under this part may be exempted from such testing if it is within the scope of another comparable Federal drug testing program, as determined by DOE, after consultation with the contractor, to avoid unnecessary multiple tests.	X	X	X	X	X		X	
19.04.04.027	10 CFR 707	707. 8	An applicant for a testing designated position will be tested for the use of illegal drugs before final selection for employment or assignment to such a position. Provisions of this part do not prohibit contractors from conducting drug testing on applicants for employment in any position.	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
19.04.04.028	10 CFR 707	707. 9	<p>When there is an occurrence which is required to be reported to DOE by the contractor, under contract provisions incorporating applicable DOE Orders, rules, and regulations, it may be necessary to test individuals in testing designated positions, or individuals with unescorted access to the control areas of the DOE reactors listed in 707.7(c), for the use of illegal drugs, if such individuals could have caused or contributed to the conditions which caused the occurrence. For an occurrence requiring immediate notification or reporting as required by applicable DOE Orders, rules, and regulations, the contractor will require testing as soon as possible after the occurrence but within 24 hours of the occurrence, unless DOE determines that it is not feasible to do so. For other occurrences requiring notifications to DOE as required by applicable DOE Orders, rules, and regulations, the contractor may require testing.</p> <p>Note: Paragraph 707.7(c) is included in Requirement 19.04.04.025 of this Functional Area.</p>	X	X	X	X	X		X	
19.04.04.029	10 CFR 707	707.10(a)	<p>(a)(1) It may be necessary to test any employee in a testing designated position, or individuals with unescorted access to the control areas of the DOE reactors listed in 707.7(c), for the use of illegal drugs, if the behavior of such an individual creates the basis for reasonable suspicion of the use of illegal drugs. Two or more supervisory or management officials, at least one of whom is in the direct chain of supervision of the employee, or is a physician from the site occupational medical department, must agree that such testing is appropriate. Reasonable suspicion must be based on an articulable belief that an employee uses illegal drugs, drawn from particularized facts and reasonable inferences from those facts.</p> <p>(2) Such a belief may be based upon, among other things:</p> <ul style="list-style-type: none"> (i) Observable phenomena, such as direct observation of: <ul style="list-style-type: none"> (A) The use or possession of illegal drugs; or (B) The physical symptoms of being under the influence of drugs; (ii) A pattern of abnormal conduct or erratic behavior; (iii) Arrest for a conviction of a drug related offense, or the identification of the individual as the focus of a criminal investigation into illegal drug possession use, or trafficking; (iv) Information that is either provided by a reliable and credible source or is independently corroborated; (v) Evidence that an employee has tampered with a drug test; or (vi) Temperature of the urine specimen is outside the range of 32.5-37.7 degrees centigrade or 90.5-99.8 degrees Fahrenheit. <p>Note: Paragraph 707.7(c) is included in Requirement 19.04.04.025 of this Functional Area.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.04.04.030	10 CFR 707	707.10(b)	(b) The fact that an employee had a confirmed positive test for the use for the use of illegal drugs at some prior time, or has undergone a period of rehabilitation or treatment, will not, in and of itself, be grounds for testing on the basis of reasonable suspicion.	X	X	X	X	X		X	
19.04.04.031	10 CFR 707	707.10(c)	(c) The requirements of this part relating to the testing for the use of illegal drugs are not intended to prohibit the contractor from pursuing other existing disciplinary procedures or from requiring medical evaluation of any employee exhibiting aberrant or unusual behavior.	X	X	X	X	X		X	
19.04.04.032	10 CFR 707	707.11	Where testing is performed under this part, at a minimum, contractors will be required to test for the use of the following drugs or classes of drugs: marijuana; cocaine; opiates; phencyclidine; and amphetamines. However, when conducting reasonable suspicion or occurrence testing, the contractor may test for any drug listed in Schedules I or II of the Controlled Substances Act.	X	X	X	X	X		X	
19.04.04.033	10 CFR 707	707.12(a)	(a) Procedures for providing urine specimens must allow individual privacy, unless there is reason to believe that a particular individual may alter or substitute the specimen to be provided. Contractors shall utilize a chain of custody procedure for maintaining control and accountability from point of collection to final disposition of specimens, and testing laboratories shall use appropriate cutoff levels in screening specimens to determine whether they are negative or positive for a specific drug, consistent with the HHS Mandatory Guidelines (see 707.5(a)). The contractor shall ensure that only testing laboratories certified by the Department of Health and Human Services, under subpart C of the HHS Mandatory Guidelines are utilized. Note: Paragraph 707.5(a) is included in Requirement 19.04.04.005 – 19.04.04.010 of this Functional Area.	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
19.04.04.034	10 CFR 707	707.12(b)	(b)(1) If the individual refuses to cooperate with the urine collection (e.g., refusal to provide a specimen, or to complete paperwork), then the collection site person shall inform the MRO and shall document the non-cooperation on the specimen chain of custody form. The MRO shall report the failure to cooperate to the appropriate management authority, who shall report to DOE if the individual holds an access authorization. Individuals so failing to cooperate shall be treated in all respects as if they had been tested and had been determined to have used an illegal drug. The contractor may apply additional sanctions consistent with its disciplinary policy. (2) The collection site person shall ascertain that there is a sufficient amount of urine to conduct an initial test, a confirmatory test, and a retest, in accordance with the HHS Mandatory Guidelines. If there is not a sufficient amount of urine, additional urine will be collected in a separate container. The individual may be given reasonable amounts of liquid and a reasonable amount of time in which to provide the specimen required. The individual and the collection site person must keep the specimen in view at all times. When collection is complete, the partial specimens will be combined in a single container. In the event that the individual fails to provide a sufficient amount of urine, the amount collected will be noted on the "Urine Sample Custody Document." In this case, the collection site person will telephone the individual's supervisor who will determine the next appropriate action. This may include deciding to reschedule the individual for testing, to return the individual to his or her work site and initiate disciplinary action, or both.	X	X	X	X	X		X	
19.04.04.035	10 CFR 707	707.13(a)	(a) All test results shall be submitted for medical review by the MRO. A confirmed positive test for drugs shall consist of an initial test performed by the immunoassay method, with positive results on that initial test confirmed by another test, performed by the gas chromatography/mass spectrometry method (GC/MS). This procedure is described in paragraphs 2.4 (e) and (f) of the HHS Mandatory Guidelines.	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
19.04.04.036	10 CFR 707	707.13(b)	(b) The Medical Review Officer will consider the medical history of the employee or applicant, as well as any other relevant biomedical information. When there is a confirmed positive test result, the employee or applicant will be given an opportunity to report to the MRO the use of any prescription or over-the-counter medication. If the MRO determines that there is a legitimate medical explanation for a confirmed positive test result, consistent with legal and non-abusive drug use, the MRO will certify that the test results do not meet the conditions for a determination of use of illegal drugs. If no such certification can be made, the MRO will make a determination of use of illegal drugs. Determinations of use of illegal drugs will be made in accordance with the criteria provided in the Medical Review Officer Manual issued by the Department of Health and Human Services [DHHS Publication No. (ADM) 88-1526].	X	X	X	X	X		X	
19.04.04.037	10 CFR 707	707.14(a)	(a) When an applicant for employment has been tested and determined to have used an illegal drug, processing for employment will be terminated and the applicant will be so notified.	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.04.04.038	10 CFR 707	707.14(b)	<p>(b)(1) When an employee who is in a testing designated position has been tested and determined to have used an illegal drug, the contractor shall immediately remove that employee from the testing designated position; if such employee also holds, or is an applicant for, an access authorization, then the contractor shall immediately notify DOE security officials for appropriate adjudication. If this is the first determination of use of illegal drugs by that employee (for example, the employee has not previously signed a DOE drug certification, and has not previously tested positive for use of illegal drugs), the employee may be offered a reasonable opportunity for rehabilitation, consistent with the contractor's policies. If rehabilitation is offered, the employee will be placed in a non-testing designated position, which does not require a security clearance, provided there is such an acceptable position in which the individual can be placed during rehabilitation; if there is no acceptable non-testing designated position, the employee will be placed on sick, annual, or other leave status, for a reasonable period sufficient to permit rehabilitation. However, the employee will not be protected from disciplinary action which may result from violations of work rules other than a positive test result for illegal drugs.</p> <p>(2) Following a determination by the site occupational medical department, after counseling or rehabilitation, that the employee can safely return to duty, the contractor may offer the employee reinstatement, in the same or a comparable position to the one held prior to the removal, consistent with the contractor's policies and the requirements of 10 CFR part 710. Failure to take the opportunity for rehabilitation, if it has been made available, for the use of illegal drugs, will require significant disciplinary action up to and including removal from employment under the DOE contract, in accordance with the contractor's policies. Any employee who is twice determined to have used illegal drugs shall in all cases be removed from employment under the DOE contract. Also, if an employee who has signed a DOE drug certification violates the terms of the certification, DOE shall conduct a timely review of the circumstances of such violation, and the individual's continued eligibility for a DOE access authorization shall be determined under the provisions of 10 CFR part 710, "Criteria and Procedures for Determining Eligibility for Access to Classified Matter or Significant Quantities of Special Nuclear Material."</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.04.04.039	10 CFR 707	707.14(c)	(c) An employee who has been removed from a testing designated position because of the use of illegal drugs may not be returned to such position until that employee has: (1) Successfully completed counseling or a program of rehabilitation; (2) Undergone a urine drug test with a negative result; and (3) Been evaluated by the site occupational medical department, which has determined that the individual is capable of safely returning to duty.	X	X	X	X	X		X	
19.04.04.040	10 CFR 707	707.14(d)	(d) An individual who is not an employee of a contractor who has been denied unescorted access because of the use of illegal drugs may not have the unescorted access reinstated until that individual has: (1) Provided evidence of successful completion of counseling or a program of rehabilitation; (2) Undergone a urine drug test with a negative result; and (3) Been evaluated by the site occupational medical department, which has determined that the individual is capable of being permitted unescorted access to a reactor control area.	X	X	X	X	X		X	
19.04.04.041	10 CFR 707	707.14(e)	(e) If a DOE access authorization is involved, DOE must be notified of a contractor's intent to return to a testing designated position an employee removed from such duty for use of illegal drugs. Positions identified in 707.7(b)(1) and (2) will require DOE approval prior to return to a testing designated position.	X	X	X	X	X		X	
19.04.04.042	10 CFR 707	707.14(f)	(f) An individual who has been notified of a positive test result may request a retest of the same sample at the same or another certified laboratory. The individual shall bear the costs of transportation and/or testing of the specimen. The contractor will inform employees of their right to request a retest under the provisions of this paragraph.	X	X	X	X	X		X	
19.04.04.043	10 CFR 707	707.14(g)	(g) After an employee determined to have used illegal drugs has been returned to duty, the employee shall be subject to unannounced drug testing, at intervals, for a period of 12 months.	X	X	X	X	X		X	
19.04.04.044	10 CFR 707	707.15	When establishing drug testing programs, contractors who are parties to collective bargaining agreements will negotiate with employee representatives, as appropriate, under labor relations laws or negotiated agreements. Such negotiation, however, cannot change or alter the requirements of this rule because DOE security requirements themselves are non-negotiable under the security provisions of DOE contracts. Employees covered under collective bargaining agreements will not be subject to the provisions of this rule until those agreements have been modified, as necessary; provided, however, that if one year after commencement of negotiation the parties have failed to reach agreement, an impasse will be determined to have been reached and the contractor will unilaterally implement the requirements of this rule.	X	X	X	X	X		X	

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19.04.04.045	10 CFR 707	707.16(a)	(a) Confirmed positive test results shall be provided to the Medical Review Officer and other contractor and DOE officials with a need to know. Any other disclosure may be made only with the written consent of the individual.	X	X	X	X	X		X	
19.04.04.046	10 CFR 707	707.16(b)	(b) Contractors shall maintain maximum confidentiality of records related to illegal drug use, to the extent required by applicable statutes and regulations (including, but not limited to, 42 U.S.C. 290dd-3, 42 U.S.C. 290ee-3, and 42 CFR part 2). If such records are sought from the contractor for criminal investigations, or to resolve a question or concern relating to the Personnel Assurance Program certification or access authorization under 10 CFR part 710, any applicable procedures in statute or regulation for disclosure of such information shall be followed. Moreover, owing to DOE's express environmental, public health and safety, and national security interests, and the need to exercise proper contractor oversight, DOE must be kept fully apprised of all aspects of the contractor's program, including such information as incidents involving reasonable suspicion, occurrences, and confirmed test results, as well as information concerning test results in the aggregate.	X	X	X	X	X		X	
19.04.04.047	10 CFR 707	707.16(c)	(c) Unless otherwise approved by DOE, the contractors shall ensure that all laboratory records relating to positive drug test results, including initial test records and chromatographic tracings, shall be retained by the laboratory in such a manner as to allow retrieval of all information pertaining to the individual urine specimens for a minimum period of five years after completion of testing of any given specimen, or longer if so instructed by DOE or by the contractor. In addition, a frozen sample of all positive urine specimens shall be retained by the laboratory for at least six months, or longer if so instructed by DOE.	X	X	X	X	X		X	
19.04.04.048	10 CFR 707	707.16(d)	(d) The contractor shall maintain as part of its medical records copies of specimen chain of custody forms.	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
19.04.04.049	10 CFR 707	707.16(e)	(e) The specimen chain of custody form will contain the following information: (1) Date of collection; (2) Tested person's name; (3) Tested employee/applicant's social security number or other identification number unique to the individual; (4) Specimen number; (5) Type of test (random, applicant, occurrence, reasonable suspicion, follow-up, or other); (6) Temperature range of specimen; (7) Remarks regarding unusual behavior or conditions; (8) Collector's signature; and (9) Certification signature of specimen provider certifying that specimen identified is in fact the specimen the individual provided.	X	X	X	X	X		X	
19.04.04.050	10 CFR 707	707.17	Permissible actions in the event of contractor noncompliance. Actions available to DOE in the event of contractor noncompliance with the provisions of this part or otherwise performing in a manner inconsistent with its approved program include, but are not limited to, suspension or debarment, contract termination, or reduction in fee in accordance with the contract terms.	X	X	X	X	X		X	
19.04.07.017	10 CFR 851	Sub.C.App.A. 8(f)	Occupational Medicine A record, containing any medical, health history, exposure history, and demographic data collected for the occupational medicine purposes, must be developed and maintained for each employee for whom medical services are provided. All occupational medical records must be maintained in accordance with Executive Order 13335, Incentives for the Use of Health Information Technology. (1) Employee medical, psychological, and employee assistance program (EAP) records must be kept confidential, protected from unauthorized access, and stored under conditions that ensure their long-term preservation. Psychological records must be maintained separately from medical records and in the custody of the designated psychologist in accordance with 10 CFR 712.38(b)(2). (2) Access to these records must be provided in accordance with DOE regulations implementing the Privacy Act and the Energy Employees Occupational Illness Compensation Program Act.	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
19.04.07.028	DOEO443.1B-Chg1	Att.1(1)	<p>Regardless of the performer of the work, the contractor is responsible for compliance with the requirements of this Contractor Requirements Document (CRD).</p> <p>The contractor is responsible for flowing down the requirements of this CRD to subcontracts at any tier to the extent necessary to ensure the contractor's compliance with the requirements.</p> <p>Note: Throughout this CRD, the term "Human Subjects Protection Program Manager (HSP Program Manager)" refers either to the DOE HSP Program Manager or to the NNSA HSP Program Manager except where otherwise noted.</p>	X	X	X	X	X		X	
19.04.07.029	DOEO443.1B-Chg1	Att.1. 1.a	<p>As directed by the contracting officer, the contractor shall—</p> <p>1. Ensure notification of the HSP Program Manager (and, when an NNSA element is involved, the NNSA HSP Program Manager):</p> <p>a. Prior to initiation of any new HSR project, even if it meets the regulatory definition of exempt HSR as outlined in 10 CFR Part 745.101(b), involving:</p> <p>(1) an institution without an established Institutional Review Board (IRB);</p> <p>(2) a foreign country;</p> <p>(3) the potential for significant controversy (e.g., negative press or reaction from stakeholder or oversight groups);</p> <p>(4) research subjects in a protected class (fetuses, pregnant women, and in vitro fertilization; prisoners; or children); or</p> <p>(5) the generation or use of classified or unclassified controlled information.</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
19.04.07.030	DOEO443.1B-Chg1	Att.1. 1.b	<p>As directed by the contracting officer, the contractor shall—</p> <p>1. Ensure notification of the HSP Program Manager (and, when an NNSA element is involved, the NNSA HSP Program Manager):</p> <p>b. Within 48 hours of the following, and, provide a description of corrective actions taken immediately following the incident, as well as corrective actions to be taken for concurrence by the appropriate HSP Program Manager:</p> <p>(1) any significant adverse events, unanticipated problems, and complaints about the research,</p> <p>(2) any suspension or termination of IRB approval of research;</p> <p>(3) any significant non-compliance with HSP Program procedures or other requirements, which shall be reported to the IRB for evaluation for further action with the appropriate HSP Program Manager;</p>	X	X	X	X	X		X	
19.04.07.031	DOEO443.1B-Chg1	Att.1. 1.c	<p>As directed by the contracting officer, the contractor shall—</p> <p>1. Ensure notification of the HSP Program Manager (and, when an NNSA element is involved, the NNSA HSP Program Manager):</p> <p>c. Immediately, of a finding of a suspected or confirmed data breach involving PII in printed or electronic form and to the DOE-Cyber Incident Response Capability (See Note) immediately, in accordance with the requirements of the CRD associated with DOE O 206.1 (See Note), and provide a description of any corrective actions taken within 48 hours and a description of corrective actions to be taken for concurrence by the appropriate HSP Program Manager.</p> <p>Note: DOE O 206.1 (Department of Energy Privacy Program) is implemented as a Non-ESH directive and a Compliance Assessment and Implementation Report (CAIR) is available from the S/RID web page. The Cyber Incident Response Capability is in accordance with the Program Cyber Security Plan, Version 2.0 addressed in a Non-ESH source document CAIR available from the S/RID web page.</p>	X	X	X	X	X		X	
19.04.07.032	DOEO443.1B-Chg1	Att.1. 1.d	<p>As directed by the contracting officer, the contractor shall—</p> <p>1. Ensure notification of the HSP Program Manager (and, when an NNSA element is involved, the NNSA HSP Program Manager):</p> <p>d. Upon appointment of a new DOE Site IRB Chair or DOE Site Institutional Official.</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
19.04.07.033	DOEO443.1B-Chg1	Att.1. 2	As directed by the contracting officer, the contractor shall— 2. Ensure that research involving human subjects, regardless of source of funding, is conducted in accordance with applicable requirements. (See 10 CFR Part 745 and 45 CFR Part 46). <1> <1> Ensure that research is reviewed at intervals appropriate to the degree of risk, but not less than once per year, to assess the risk to test subjects and to assure the risk is reasonable in relation to anticipated benefits.	X	X	X	X	X		X	
19.04.07.034	DOEO443.1B-Chg1	Att.1. 3	As directed by the contracting officer, the contractor shall— 3. Ensure that contractor-issued solicitations or proposals for research, studies, tests, surveys, surveillance, or other data collection are reviewed to identify research involving human subjects and that any resulting agreements include the substance of the requirements in this CRD.	X	X	X	X	X		X	
19.04.07.035	DOEO443.1B-Chg1	Att.1. 4	As directed by the contracting officer, the contractor shall— 4. Ensure that no research involving human subjects, regardless of funding source, is initiated without prior IRB approval under the terms of an approved assurance covering the research.	X	X	X	X	X		X	
19.04.07.036	DOEO443.1B-Chg1	Att.1. 5.a	As directed by the contracting officer, the contractor shall— 5. Ensure that any Human Terrain Mapping (HTM) work complies with DOE requirements specified in this CRD, namely: a. HTM projects, conducted with DOE funding, at DOE institutions (regardless of funding source), or by DOE contractor personnel (regardless of funding source or location of work conducted), whether done domestically or in an international environment, and including classified and proprietary research, shall be strictly limited to only those projects involving the analysis and modeling of de-identified data.	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
19.04.07.037	DOEO443.1B-Chg1	Att.1. 5.b	<p>As directed by the contracting officer, the contractor shall—</p> <p>5. Ensure that any Human Terrain Mapping (HTM) work complies with DOE requirements specified in this CRD, namely:</p> <p>b. Documented process and procedures shall be developed to ensure that:</p> <p>1) statements of work for HTM projects are submitted to the Site Office, for information, and to the appropriate HSP Program Manager (and when an NNSA element is involved, the NNSA HSP Program Manager), for DOE Headquarters review and approval, prior to initiation, and</p> <p>2) relevant M&O personnel are trained in HTM requirements. If the project is to be conducted by or for the intelligence community, the Office of Intelligence must also review and approve it prior to project initiation. The HSP Program Manager(s) and the Office of Intelligence shall engage the recognized DOE site IRB and, if needed, the principal investigator (PI) and/or sponsor, in clarifying whether the proposed project is HTM, and if so, that the data to be used will be de-identified. Additionally, the PI will provide written verification that only de-identified data (as defined in paragraph 7d of this Order (See Note)) will be used.</p> <p>Note: For definition of "de-identified," see Definitions on the S/RID web page.</p>	X	X	X	X	X		X	
19.04.07.038	DOEO443.1B-Chg1	Att.1. 5.c	<p>As directed by the contracting officer, the contractor shall—</p> <p>5. Ensure that any Human Terrain Mapping (HTM) work complies with DOE requirements specified in this CRD, namely:</p> <p>c. For Headquarters approved projects, the recognized DOE site IRB is the only entity authorized to determine whether the HTM data received by the PI after project initiation meets DOE criteria for de-identification. If the DOE site does not have an internal IRB, the Central DOE IRB will be the responsible IRB.</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
19.04.07.039	DOEO443.1B-Chg1	Att.1. 5.d	<p>As directed by the contracting officer, the contractor shall—</p> <p>5. Ensure that any Human Terrain Mapping (HTM) work complies with DOE requirements specified in this CRD, namely:</p> <p>d. If, in the case the sponsor requests assistance in the de-identification of HTM data prior to start of any work on the sponsor’s project and/or re-identification of data following completion of the project, DOE sites may provide such services under a separate contract and/or task order with the sponsor by following the appropriate DOE standard operating procedure approved by the DOE Institutional Official, DOE Office of Science. <2></p> <p><2> It should be noted that: a) only limited communications, if needed, may take place between the organization de-identifying and/or re-identifying the sponsor’s data and the organization performing work on the sponsor’s task; b) the identified data set shall not be shared with the individual who will perform work on the sponsor’s task; and c) the de-identified dataset shall be sent directly by the sponsor to the individual performing work on the sponsor’s task and not by the organization at the DOE site that de-identified it.</p>	X	X	X	X	X		X	
19.04.07.040	DOEO443.1B-Chg1	Att.1. 6	<p>As directed by the contracting officer, the contractor shall—</p> <p>6. Submit an application for a Federal-wide Assurance (FWA) to the Office of Human Research Protections (OHRP) with Department of Health and Human Services (DHHS) and, once approved by DHHS, maintain this FWA covering proposed and ongoing HSR and provide a copy to the appropriate HSP Program Manager. The Secretary of Energy uses the approved FWA as appropriate written documentation from DOE Sites committing to institutional compliance with and implementation of DOE and DHHS regulations for the protection of human research subjects.</p> <p>See http://orhp.cit.nih.gov/efile/FwaStart.aspx and/or contact the DOE HSP Program Manager, Office of Science, Office of Biological and Environmental Research, telephone 301-903-3213, or the NNSA HSP Program Manager, as appropriate.</p>	X	X	X	X	X		X	
19.04.07.041	DOEO443.1B-Chg1	Att.1. 7	<p>As directed by the contracting officer, the contractor shall—</p> <p>7. Periodically conduct self-assessments to ensure compliance with the HSP Program procedures and other requirements.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) 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
19.04.07.042	DOEO443.1B-Chg1	Att.1. 8	As directed by the contracting officer, the contractor shall— 8. Prepare and submit an annual report for the HSR Projects Database in accordance with directions and schedules provided by the appropriate HSP Program Manager.	X	X	X	X	X		X	
19.04.07.043	DOEO443.1B-Chg1	Att.1. 9	As directed by the contracting officer, the contractor shall— 9. Submit requests for exemptions from these requirements in writing through the contracting officer to the appropriate HSP Program Manager.	X	X	X	X	X		X	
19.04.07.044	DOEO443.1B-Chg1	Att.1.10	As directed by the contracting officer, the contractor shall— 10. Ensure relevant personnel actively participate in HSP training and educational programs.	X	X	X	X	X		X	
19.04.07.045	DOEN443.1	Att.1(1)	Although this DOE Order applies, SRR endorses the SRNS CAIR. This entry is for database consistency.	X	X	X	X	X		X	
19.05.004	10 CFR 851	Sub.C.851.25(a)	Training and information. Contractors must develop and implement a worker safety and health training and information program to ensure that all workers exposed or potentially exposed to hazards are provided with the training and information on that hazard in order to perform their duties in a safe and healthful manner.	X	X	X	X	X		X	
19.05.005	10 CFR 851	Sub.C.851.25(b)	Training and information. The contractor must provide: (1) Training and information for new workers, before or at the time of initial assignment to a job involving exposure to a hazard; (2) Periodic training as often as necessary to ensure that workers are adequately trained and informed; and (3) Additional training when safety and health information or a change in workplace conditions indicates that a new or increased hazard exists.	X	X	X	X	X		X	
19.05.006	10 CFR 851	Sub.C.851.25(c)	Training and information. Contractors must provide training and information to workers who have worker safety and health program responsibilities that is necessary for them to carry out those responsibilities.	X	X	X	X	X		X	

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19.06.001	10 CFR 851	Sub.C.851.26(a)	<p>Recordkeeping and reporting.</p> <p>Recordkeeping. Contractors must:</p> <p>(1) Establish and maintain complete and accurate records of all hazard inventory information, hazard assessments, exposure measurements, and exposure controls.</p> <p>(2) Ensure that the work-related injuries and illnesses of its workers and subcontractor workers are recorded and reported accurately and consistent with DOE reporting directives.</p> <p>(3) Comply with the applicable occupational injury and illness recordkeeping and reporting workplace safety and health standards in paragraph 851.23 at their site, unless otherwise directed by DOE.</p> <p>(4) Not conceal nor destroy any information concerning non-compliance or potential noncompliance with the requirements of this part.</p> <p>Note: 1) Paragraph 851.23 is included as Requirements 19.02.01.007 through 19.02.01.017 of this Functional Area.</p>	X	X	X	X	X		X	
19.06.002	10 CFR 851	Sub.C.851.26(b)	<p>Recordkeeping and reporting.</p> <p>Reporting and investigation.</p> <p>Contractors must:</p> <p>(1) Report and investigate accidents, injuries and illness; and</p> <p>(2) Analyze related data for trends and lessons learned.</p> <p>Note: Included in Requirements 01.06.03.065, 01.06.03.066, and 01.06.03.067 of FA 01.</p>	X	X	X	X	X		X	

TABLE 1 - S/RID FUNCTIONAL AREA 19 (OCCUPATIONAL SAFETY AND HEALTH) REQUIREMENTS

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19.06.01.060	DOEO231.1B-AChg1	Att.1.[1]	<p>Regardless of the performer of the work, the contractor is responsible for complying with the requirements of this 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.</p> <p>In addition to the requirements included in this CRD, contractors are responsible for complying with Attachments 2, 3, 4, and 5 to DOE O 231.1B referenced in and made a part of this CRD as set forth below.</p> <p>Reports that potentially contain classified or controlled unclassified information (e.g., Unclassified Controlled Nuclear Information or Official Use Only information) must be reviewed and marked in accordance with appropriate Directives. If a report includes classified information, it must be contained in a separate classified addendum and an unclassified version of the report must be developed and annotated to indicate the existence, identification, and file location of the classified addendum.</p> <p>Note: DOE O 231.1B has been superseded by DOE O 231.1B, Admin Change 1.</p>	X	X	X	X	X		X	
19.06.01.061	DOEO231.1B-AChg1	Att.1.2.a.(1)	<p>2. Reporting Occupational Safety and Health Information</p> <p>a. Injury and Illness Recordkeeping and Reporting</p> <p>(1) Contractors must ensure that work-related fatalities, injuries, and illnesses that occur to their employees and subcontractor employees are recorded and reported accurately and in accordance with 29 C.F.R. §§ 1904.4 through 1904.11, 1904.29 through 1904.32 and 1904.46 and Attachment 3, paragraph 1. This requirement excludes transient and small employer subcontractors. A transient subcontractor does not maintain an onsite office, does not receive direction/oversight from DOE or a DOE contractor, and their work is limited to transient activities, e.g., copy machine repair, express mail delivery, bottle water delivery, vending machine repair service. A small employer subcontractor employs less than 11 employees at a DOE site either directly or through sub-tiered contracts.</p> <p>Note: Attachment 3, paragraph 1 is added as S/RID requirements 19.06.01.064 to 19.06.01.073 in this Functional Area.</p>	X	X	X	X	X		X	

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19.06.01.062	DOEO231.1B-AChg1	Att.1.2.a.(2)	<p>2. Reporting Occupational Safety and Health Information</p> <p>a. Injury and Illness Recordkeeping and Reporting</p> <p>(2) A contractor with an expiring or terminated contract must transfer all occupational safety and health records involving work performed for DOE to the assuming contractor or DOE facilities management. The assuming contractor must accept and maintain these records as part of performing occupational safety and health responsibilities and in accordance with Attachment 3, paragraph 2.</p> <p>(See record retention requirements in 29 C.F.R. § 1904.33 and DOE Administrative Records Schedule 1: Personnel Records, September 2010, Occupational Injury and Illness Files, N1-434- 98-4, item 34)</p> <p>Note: Attachment 3, paragraph 2 is added as S/RID requirements 19.06.01.074 to 19.06.01.077 in this Functional Area.</p>	X	X	X	X	X		X	
19.06.01.063	DOEO231.1B-AChg1	Att.1.2.a.(3)	<p>2. Reporting Occupational Safety and Health Information</p> <p>a. Injury and Illness Recordkeeping and Reporting</p> <p>(3) Contractors must ensure separate recording and reporting of all recordable injuries and illnesses occurring to subcontractor employees for each subcontractor organization in the same manner as described in Attachment 3, paragraph 1 for contractor employees, unless consolidation of data is approved by the CAIRS Point of Contact (POC) for the Head of the Headquarters Element or their designated CAIRS POC at the DOE Field organization.</p> <p>Note: Attachment 3, paragraph 1 is added as S/RID requirements 19.06.01.064 to 19.06.01.073 in this Functional Area.</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
19.06.01.064	DOEO231.1B-AChg1	Att.3.1.a	Reporting Occupational Safety and Health Information This Attachment provides information and/or requirements associated with DOE O 231.1B as well as information and/or requirements applicable to contracts in which the associated CRD (Attachment 1 to DOE O 231.1B) is inserted. 1. Injury and Illness Recordkeeping and Reporting a. Occupational safety and health reports must be complete and readily available for authorized dissemination outside the cleared community. Note: DOE O 231.1B has been superseded by DOE O 231.1B, Admin Change 1.	X	X	X	X	X		X	
19.06.01.065	DOEO231.1B-AChg1	Att.3.1.b	Reporting Occupational Safety and Health Information 1. Injury and Illness Recordkeeping and Reporting b. All recordable, work-related employee fatalities, injuries, and illnesses must be recorded on Occupational Safety and Health Administration (OSHA) Form No. 300, Log of Work-Related Injuries and Illnesses in accordance with 29 C.F.R. § 1904.29. OSHA Form No. 300 must be updated in accordance with 29 C.F.R. § 1904.33.	X	X	X	X	X		X	
19.06.01.066	DOEO231.1B-AChg1	Att.3.1.c	Reporting Occupational Safety and Health Information 1. Injury and Illness Recordkeeping and Reporting c. An annual summary of the information contained on OSHA Form No. 300 must be compiled, certified, posted and updated using OSHA Form No. 300A, Summary of Work-Related Injuries and Illnesses, in accordance with 29 C.F.R. § 1904.29 and 29 C.F.R. §§ 1904.32 through 1904.33.	X	X	X	X	X		X	

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19.06.01.067	DOEO231.1B-AChg1	Att.3.1.d	Reporting Occupational Safety and Health Information 1. Injury and Illness Recordkeeping and Reporting d. Injury and illness incident reports must be recorded in accordance with 29 C.F.R. § 1904.29. Injury and illness incident reports must also be submitted electronically using the Computerized Accident/Incident Reporting System (CAIRS) Individual Accident/Incident Report format to the CAIRS database by using either CAIRS Bulk Upload Processing or CAIRS Direct Data Entry. Each data field on the report must be complete when the report is submitted electronically (See CAIRS Injury and Illness Reporting Guide for a list of data elements included in the form). New reports must be submitted for receipt on or before the 15th and the last working day of the month. Initial reports must include the actual number of days away, restricted or transferred (DART) as of the date of the report. Updates to the number of DART or other information previously reported for each case must be submitted quarterly until the case is closed or until the number of DART exceeds 180 days. Quarterly revisions to DART or revisions to other previously-reported information must be submitted for receipt by the 10th of the month following the end of the calendar quarter (i.e., April 10th, July 10th, October 10th, and January 10th).	X	X	X	X	X		X	
19.06.01.068	DOEO231.1B-AChg1	Att.3.1.e	Reporting Occupational Safety and Health Information 1. Injury and Illness Recordkeeping and Reporting e. DOE Form 5484.4, Tabulation of Work Hours, must be used to report total workhours for all employees. Total work-hours must be submitted electronically on a quarterly basis to CAIRS using CAIRS Direct Data Entry by the 10th of the month following the end of each quarter, i.e., April 10th, July 10th, October 10th, and January 10th. See CAIRS Injury and Illness Reporting Guide at: http://www.hss.doe.gov/csa/analysis/cairs/CAIRS_Reporting_Guide.pdf .	X	X	X	X	X		X	
19.06.01.069	DOEO231.1B-AChg1	Att.3.1.f	Reporting Occupational Safety and Health Information 1. Injury and Illness Recordkeeping and Reporting f. Documented quality checks of injury and illness information reported to DOE through CAIRS must be conducted at least quarterly to ensure information is thorough, accurate, and consistent with information contained in local records.	X	X	X	X	X		X	

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19.06.01.070	DOEO231.1B-AChg1	Att.3.1.g	Reporting Occupational Safety and Health Information 1. Injury and Illness Recordkeeping and Reporting g. Occupational injury and illness information must be analyzed to identify adverse trends and lessons learned and develop corrective actions that prevent recurrence.	X	X	X	X	X		X	
19.06.01.071	DOEO231.1B-AChg1	Att.3.1.h	Reporting Occupational Safety and Health Information 1. Injury and Illness Recordkeeping and Reporting h. Discrepancies identified by DOE during periodic assessments or by other reviews of work-related injury and illness records must be corrected as directed by the DOE reviewing organization.	X	X	X	X	X		X	
19.06.01.072	DOEO231.1B-AChg1	Att.3.1.i	Reporting Occupational Safety and Health Information 1. Injury and Illness Recordkeeping and Reporting i. Individuals assigned occupational injury and illness recording and reporting responsibilities must be trained to accomplish assigned recording and reporting responsibilities.	X	X	X	X	X		X	
19.06.01.073	DOEO231.1B-AChg1	Att.3.1.j	Reporting Occupational Safety and Health Information 1. Injury and Illness Recordkeeping and Reporting j. Clarifications of DOE occupational injury and illness recordkeeping and reporting requirements must be issued only by the Office of Environmental Protection, Sustainability Support and Corporate Safety Analysis.	X	X	X	X	X		X	
19.06.01.074	DOEO231.1B-AChg1	Att.3.2.a	Reporting Occupational Safety and Health Information 2. Injury and Illness Records Retention and Accessibility a. Injury and illness records must be retained pursuant to DOE O 243.1, Records Management Program, dated 2-3-06 and DOE Administrative Records Schedule 1: Personnel Records, September 2010, Occupational Injury and Illness Files, N1- 434-98-4, item 34. Note: DOE O 243.1B, Admin Chg 1 replaces DOE O 243.1.	X	X	X	X	X		X	

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19.06.01.075	DOEO231.1B-AChg1	Att.3.2.b	Reporting Occupational Safety and Health Information 2. Injury and Illness Records Retention and Accessibility b. Access to personal injury/illness records is subject to the Privacy Act, Title 5 U.S.C. Section 552a and the Freedom of Information Act (FOIA) requirements and restrictions. [See Title 5 U.S.C. Section 552(b)(6).] Access to information on any OSHA Form No. 300 must be restricted to information that does not constitute an unwarranted invasion of personal privacy. An employee whose name does not appear on a OSHA Form No. 300 must be limited to accessing information that does not identify any injured or ill employees, and must not be provided access to the names of the injured or ill employees.	X	X	X	X	X		X	
19.06.01.076	DOEO231.1B-AChg1	Att.3.2.c	Reporting Occupational Safety and Health Information 2. Injury and Illness Records Retention and Accessibility c. Employees, former employees, and/or their representatives must be provided limited access to the OSHA Form No. 300 or a copy of the Individual Accident Incident Report that contains the employee's name.	X	X	X	X	X		X	
19.06.01.077	DOEO231.1B-AChg1	Att.3.2.d	Reporting Occupational Safety and Health Information 2. Injury and Illness Records Retention and Accessibility d. Records listed in 29 C.F.R. §§ 1904.4 and 1904.5 (or the DOE equivalent of these records) must be made available for inspection and copying by any DOE representative for the purpose of conducting oversight assessments or for statistical compilation.	X	X	X	X	X		X	

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19.07.07.013	10 CFR 851	Sub.C.App.A.1(a)	<p>Appendix A to Part 851—Worker Safety and Health Functional Areas This appendix establishes the mandatory requirements for implementing the applicable functional areas required by paragraph 851.24.</p> <p>Construction Safety</p> <p>For each separately definable construction activity (e.g., excavations, foundations, structural steel, roofing) the construction contractor must:</p> <p>(1) Prepare and have approved by the construction manager an activity hazard analysis prior to commencement of affected work. Such analyses must:</p> <p>(i) Identify foreseeable hazards and planned protective measures;</p> <p>(ii) Address further hazards revealed by supplemental site information (e.g., site characterization data, as-built drawings) provided by the construction manager;</p> <p>(iii) Provide drawings and/or other documentation of protective measures for which applicable Occupational Safety and Health Administration (OSHA) standards require preparation by a Professional Engineer or other qualified professional, and</p> <p>(iv) Identify competent persons required for workplace inspections of the construction activity, where required by OSHA standards.</p> <p>(2) Ensure workers are aware of foreseeable hazards and the protective measures described within the activity analysis prior to beginning work on the affected activity.</p> <p>(3) Require that workers acknowledge being informed of the hazards and protective measures associated with assigned work activities. Those workers failing to utilize appropriate protective measures must be subject to the construction contractor’s disciplinary process.</p> <p>Notes:</p> <p>(1) Paragraph 851.24 is included as Requirement number 01.04.162 of FA 01.</p> <p>(2) It is understood that the activities of this requirement include the following:</p> <p>(a) A determination of the necessity for requiring dedicated construction contractor safety and health personnel on project workplace.</p> <p>(b) Ensuring that a prework safety meeting is conducted with construction contractor to review project safety and health requirements.</p> <p>(c) Ensuring that project safety and health plans and hazard analyses are revised, as necessary, to address identified deficiencies in project safety and health performance or changes in the project operations, contractors, or personnel.</p> <p>(d) Ensuring all formal contract actions taken to enforce construction contractor compliance with project safety and health requirements are documented.</p>	X	X	X	X	X		X	

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19.07.07.014	10 CFR 851	Sub.C.App.A.1(b)	<p>Construction Safety</p> <p>During periods of active construction (i.e., excluding weekends, weather delays, or other periods of work inactivity), the construction contractor must have a designated representative on the construction worksite who is knowledgeable of the project's hazards and has full authority to act on behalf of the construction contractor. The contractor's designated representative must make frequent and regular inspections of the construction worksite to identify and correct any instances of noncompliance with project safety and health requirements.</p>	X	X	X	X	X		X	
19.07.07.015	10 CFR 851	Sub.C.App.A.1(c)	<p>Construction Safety</p> <p>Workers must be instructed to report to the construction contractor's designated representative, hazards not previously identified or evaluated. If immediate corrective action is not possible or the hazard falls outside of project scope, the construction contractor must immediately notify affected workers, post appropriate warning signs, implement needed interim control measures, and notify the construction manager of the action taken. The contractor or the designated representative must stop work in the affected area until appropriate protective measures are established.</p>	X	X	X	X	X		X	
19.07.07.016	10 CFR 851	Sub.C.App.A.1(d)	<p>Construction Safety</p> <p>The construction contractor must prepare a written construction project safety and health plan to implement the requirements of this section and obtain approval of the plan by the construction manager prior to commencement of any work covered by the plan. In the plan, the contractor must designate the individual(s) responsible for on-site implementation of the plan, specify qualifications for those individuals, and provide a list of those project activities for which subsequent hazard analyses are to be performed. The level of detail within the construction project safety and health plan should be commensurate with the size, complexity and risk level of the construction project. The content of this plan need not duplicate those provisions that were previously submitted and approved as required by paragraph 851.11.</p> <p>Note: Paragraph 851.11 is found in Requirements 19.01.013 to 19.01.016 of this functional area.</p>	X	X	X	X	X		X	