

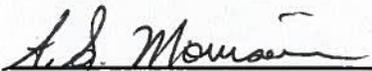
STANDARDS/REQUIREMENTS IDENTIFICATION DOCUMENT

FUNCTIONAL AREA 04.0

TRAINING AND QUALIFICATIONS (U)

February 9, 2015
REVISION 14-03

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



Manager, Contractor Assurance



Date

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04.00 TRAINING AND QUALIFICATION

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 SRR S/RID which is pertinent to the understanding of this functional area S/RID. The reader should refer to S/RID FA 00 for a complete understanding of this functional area S/RID.

The Training and Qualification (T&Q) functional area Standards/Requirements Identification Document (S/RID) lists or references the training requirements which must be satisfied to assure that SRR personnel are adequately trained and qualified to safely and effectively operate and maintain SRS facilities. This document is arranged in alignment with the July 30, 1993 Revision 0 to the DOE-HQ ES&H Configuration Guide, except those portions of the Guide for this functional area specify inclusion of requirements that are considered by SRR as more appropriate for other S/RID functional areas, particularly the general training requirements contained in the Quality Assurance functional area. Rather than repeating requirements in multiple functional areas, reference is made to the S/RID functional areas (see section 04.06) that contain requirements associated with the T&Q functional area.

DOE O 426.2 [Admin Change 1](#) (PERSONNEL SELECTION, TRAINING, QUALIFICATION, AND CERTIFICATION REQUIREMENTS FOR DOE NUCLEAR FACILITIES) is the primary source of training and qualification requirements included in this functional area. [This order is based on requirements from accepted industry standards.](#)

DOE Order 426.2 [Admin Change 1](#) allows flexibility in establishing the classification level, qualified vs. certified, for non-fissile material operators and supervisors largely dependent on the nature of the operations performed. Based on the relatively low turnover of operators and supervisors within SRR operated Liquid Waste facilities, and the reduced facility hazards identified in the final Documented Safety Analysis, it has been determined that operators and supervisors assigned to any of the Liquid Waste facilities do not need to be certified as defined in this DOE Order. Since Operations supervisors are persons-in-charge and must therefore demonstrate a higher degree of knowledge and ability regarding facility operation, an oral examination and simulator evaluation is included as part of [the](#) supervisor qualification even though this is not required by the DOE Order, per se. The Department of Energy previously authorized not having any certified positions within Liquid Waste facilities in a letter to Mr. R. A. Pedde dated February 26, 2004.

04.01 MANAGEMENT AND ADMINISTRATION

This element identifies the requirements for the unique aspects of management and administration that are an essential part of the Training and Qualification Program. The general aspects of management, policy, and staffing are covered in the Management Systems and Operations functional areas (FA 01 and FA 09).

04.02 ADMINISTRATION OF TRAINING

Requirements which ensure that the T&Q Program is executed in a manner such that personnel obtain the initial and continued training necessary to fulfill the responsibilities of their assigned positions are established. Specific requirements for this element are listed in Table 1.

04.03 TRAINING CATEGORIES AND SUBJECTS

Requirements for general employee training requirements originating from DOE O 426.2, [Admin Change 1](#), are contained in this functional area. Requirements for other training categories are contained in other functional areas as referenced in the Key Interface section of this functional area.

04.04 TRAINING RECORDS AND DOCUMENTATION

Requirements for training records are included in this section and reflected in the applicable portions of Training Implementation Matrices or [Training Program Plans](#). General requirements for all types of records are included in the Quality Assurance S/RID functional area.

04.05 ACCREDITATION

Training accreditation is not applicable at SRS.

04.06 KEY INTERFACES

The T&Q functional area interfaces with all other functional area S/RIDs, since training and qualification are important aspects of each functional area. As a minimum, the general training and qualification requirements associated with Quality Assurance have a relationship to all S/RID functional areas, even though they are physically located in Functional Area 02, Quality Assurance. In many instances, program or functional area specific training and qualification requirements are included in other functional areas within the S/RID. The following material provides a summary of the source document requirements included in each functional area as an aid to the reader in locating other requirements related to training and qualifications.

FA 01 - MANAGEMENT SYSTEMS

DOE Order [422.1](#), [Admin Change 1](#) - Requirements related to incident investigator qualifications and training.

DOE O 425.1D, [Admin Change 1](#) - Requirements related to Operational Readiness Review team qualifications and training.

DOE O [232.2](#), [Admin Change 1](#) - [Occurrence Reporting](#) and [Processing of Operations Information](#).

DOE LETTER AA-03-007 - Requirements related to Employee Concern Program orientation and annual training.

FA 02 - QUALITY ASSURANCE

DOE Order [414.1D](#) - Requirements related to personnel qualifications and training for assigned work and proficiency maintenance.

10 CFR 830 - Same as above.

NQA -1 - Same as above.

DOE/RW-0333P - Detailed personnel qualifications and training requirements applicable to DWPF.

FA 03 - CONFIGURATION MANAGEMENT

DOE O 420.1B - Requirements related to configuration management program training.

FA 05 - EMERGENCY MANAGEMENT

DOE O 151.1C - Requirements associated with Emergency Management training.

DOE O 153.1 - Requirements for conducting Radiological Assistance Program (RAP) training, drills and exercises.

FA 06 - SAFEGUARD AND SECURITY

Requirements related to safeguards and security training are managed as non-S/RID requirements in accordance with Contract Clause I-138 DEAR 970-5204-2 Laws, Regulations, and DOE Directives (December 2000).

FA 09 - OPERATIONS

DOE Order 422.1, Admin Change 1 - Series of requirements related to:

- (a) Management training;
- (b) On-shift training;
- (c) Procedure writer qualifications;
- (d) Independent component position verification training;
- (e) Operation qualifications; and
- (f) Documentation of training status.

FA 10 - MAINTENANCE

DOE O 433.1B, Admin Change 1 - Requirements related to training covered in Maintenance Implementation Plans.

FA 11 - RADIOLOGICAL PROTECTION

10 CFR 835 - Requirements related to general employee radiological training, radiation worker training, and radiation technician training.

FA 12 - FIRE PROTECTION

NFPA Codes - Series of various requirements related to qualification and training associated with fire protection (e.g., the 10XX Series covers fire professional qualifications and the 14XX Series covers fire fighting training).

DOE O 420.1B - Requirements related to specific aspects of Fire Protection Program.

FA 13 - PACKAGING AND TRANSPORTATION

49 CFR - Series of requirements related to hazardous material driver qualifications and training; and HAZMAT employee training.

FA 16 - WASTE MANAGEMENT

DOE O 435.1, Change 1 - Requirements related to training for disposal facility personnel and training and qualification requirements for radiological waste management program personnel.

FA 18 - NUCLEAR SAFETY

10 CFR 830 - Series of requirements related to:

- (a) Personnel qualifications and training associated with Unreviewed Safety Question determinations.
 - (b) Inclusion of training information in Documented Safety Analysis.
 - (c) Technical Safety Requirements for operations and supervisors certification.
- ANS 8.1 - Requirements related to Criticality Safety training.
ANS 8.19 - Requirements related to Criticality Safety training and evaluation training.

FA 19 - OCCUPATIONAL SAFETY AND HEALTH

DOE Order [422.1](#), [Admin Change 1](#) - Requirements related to lockout/tagout training.

FA 20 - ENVIRONMENTAL PROTECTION

40 CFR - Various requirements associated with personnel qualifications and training tied to RCRA, CERCLA, Clean Air Act, etc.

04.07 DOCUMENTS

04.07.01 Reference Documents

DOEM435.1-1AChg2

RADIOACTIVE WASTE MANAGEMENT MANUAL, [ADMIN CHANGE 2](#),
6/8/2011

DOEO426.2-AChg1

PERSONNEL SELECTION, TRAINING, QUALIFICATION, AND
CERTIFICATION REQUIREMENTS FOR DOE NUCLEAR FACILITIES,
[ADMIN CHANGE 1](#), 7/29/2013

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 SRS facilities/ bldgs.

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.01.037	DOEM435.1-1AChg2	Ch. 1-1.e.19	<p>Training and Qualification.</p> <p>A training and qualification program shall be implemented for radioactive waste management program personnel, and shall meet the requirements of DOE O 360.1, Training, and DOE 5480.20A, Personnel Selection, Qualification, and Training Requirements for DOE Nuclear Facilities.</p> <p>Notes: 1. DOE O 360.1, Training, does not apply to contractors. 2. DOE O 426.2 Admin Change 1 superseded DOE O 426.2 and DOE 5480.20A.</p>	X	X	X	X	X		X	
04.01.038	DOEO426.2-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>Chapter I of this CRD establishes general training program requirements that are to be applied to all personnel who can impact the safety basis through their involvement in the operation, maintenance, and technical support of all Department of Energy Hazard Category 1, 2, and 3 nuclear facilities.</p> <p>Chapter II of this CRD contains additional training requirements for positions unique to various types of nuclear facilities such as the specific training and certification requirements for reactor operators.</p> <p>Chapters I and II apply to Hazard Category 1/Category A reactor facilities, Hazard Category 2/Category B reactor facilities, and Hazard Category 2 and 3 nonreactor nuclear facilities. The requirements in these chapters for nonreactor nuclear facilities are designed for Hazard Category 2 nuclear facilities. A graded approach must be used when applying the requirements of this CRD to Hazard Category 1, 2 and 3 nuclear facilities.</p> <p>Note: Paragraphs 2, 3 and 4 of this section do not contain specific requirements. Included here for information, program instructions, and clarity.</p>	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
04.01.040	DOEO426.2-AChg1	Att.1.Ch.I. 2	<p>TRAINING ORGANIZATION</p> <p>The operating contractor must establish one or more organizations to be responsible for the training of all applicable personnel. This organization(s) must be held accountable for providing the support necessary to ensure that personnel are qualified to safely and effectively meet job requirements. The responsibilities, qualifications, and authority of training organization personnel must be documented, and managerial roles, responsibilities, authority, and accountability clearly defined.</p>	X						X	
04.01.041	DOEO426.2-AChg1	Att.1.Ch.I. 3.a	<p>PERSONNEL SELECTION</p> <p>Selection. The contractor must establish a process for selection and assignment of personnel. This process must include factors such as background, experience, education, and medical examination (as applicable), and should be based on the ability of the person to meet job performance requirements. Selection of personnel may involve a selection test.</p> <p>If an individual does not meet the experience requirements of this CRD and cannot satisfy the alternatives to experience provisions in paragraph 3.c of this chapter, individuals may be assigned to that position based on consideration of the collective experience and the strength and balance of the overall operating organization. In such cases documented justification must be provided to DOE for approval on a case-by-case basis.</p> <p>Note: Paragraph 3.c of this chapter is provided as S/RID requirement 04.01.043.</p>	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
04.01.043	DOEO426.2-AChg1	Att.1.Ch.I. 3.c	<p>PERSONNEL SELECTION</p> <p>Alternatives to Experience. Experience in design, construction, and operational training may be considered applicable nuclear experience and must be evaluated on a case-by-case basis and approved and documented by the contractor.</p> <p>(1) Where course work is related to job assignments, post-secondary education may be substituted. Formal education must not be allowed to substitute for more than 50 percent of the experience requirement unless otherwise stated in Chapter II.</p> <p>(2) Job-related training in the position sought may qualify as equivalent to nuclear experience on a one-for-one basis for up to a maximum of two years.</p>	X						X	
04.02.120	DOEO426.2-AChg1	Att.1.Ch.I. 5.a	<p>QUALIFICATION PROCESS</p> <p>Qualification is defined in terms of education, experience, training, examination, and any special requirements necessary for performance of assigned responsibilities. The requirements in this CRD are intended to provide reasonable assurance that personnel at DOE Hazard Category 1, 2, and 3 nuclear facilities possess qualifications to operate and maintain the facility safely and reliably under all conditions.</p> <p>General. The program leading to qualification must be governed by written procedures that include requirements for documented assessment of the person's qualifications through examinations and performance demonstrations. The contractor must define qualification requirements for personnel in each functional level or area based on the criteria contained in this CRD. The contractor must have a method for formally indicating that a person is qualified and when the qualifications expire.</p> <p>(1) Qualification may be granted only after assuring that all requirements (including training and examinations) and other specified requirements (e.g., medical examination) have been satisfactorily completed.</p> <p>(2) Qualification of operators and their immediate supervisors is valid for a period not to exceed two years unless revoked for cause (e.g., medical disqualification, performance deficiencies).</p> <p>Note: SRR does not operate any DOE Hazard Category 1 nuclear facilities at SRS.</p>	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
04.02.121	DOEO426.2-AChg1	Att.1.Ch.I. 5.b	<p>QUALIFICATION PROCESS</p> <p>Qualification is defined in terms of education, experience, training, examination, and any special requirements necessary for performance of assigned responsibilities. The requirements in this CRD are intended to provide reasonable assurance that personnel at DOE Hazard Category 1, 2, and 3 nuclear facilities possess qualifications to operate and maintain the facility safely and reliably under all conditions.</p> <p>Subcontractor Personnel. Subcontractor personnel must meet the qualification requirements for the job function to be performed. In addition, the operating contractor must ensure that subcontractor and temporary personnel who perform specialized activities (e.g., radiation protection, maintenance, in-service inspection, radiography, and welding) are qualified to perform their assigned tasks. Personnel must be considered adequately qualified with proper documentation based on at least one of the following:</p> <p>(1) The satisfactory result of an audit of subcontractor records which relate to qualification of the subcontractor personnel being considered for assignment by the operating organization, or;</p> <p>(2) The operating contractor's previous verification (within 2 years) of the ability of the subcontractor employee to perform assigned tasks safely and efficiently, or;</p> <p>(3) Successful completion by the subcontractor employee of those segments of the operating organization's qualification program which are considered pertinent to accomplishment of the task to be performed. For subcontractor personnel who do not meet the requirements, work activities on engineered safety features as identified in the facility Documented Safety Analysis must be supervised by a person who meets the qualification criteria established by the operating organization for conduct of the activities.</p> <p>Note: SRR does not operate any DOE Hazard Category 1 nuclear facilities at SRS.</p>	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
04.02.122	DOEO426.2-AChg1	Att.1.Ch.I. 5.c	<p>QUALIFICATION PROCESS</p> <p>Qualification is defined in terms of education, experience, training, examination, and any special requirements necessary for performance of assigned responsibilities. The requirements in this CRD are intended to provide reasonable assurance that personnel at DOE Hazard Category 1, 2, and 3 nuclear facilities possess qualifications to operate and maintain the facility safely and reliably under all conditions.</p> <p>Managers and Technical Staff. Even though applied broadly to personnel in the operating organization, the term qualification has a different application for managers and technical staff personnel. These personnel may be considered qualified by virtue of meeting the education and experience requirements associated with the position and by completing applicable position-specific training. A comprehensive examination need not be administered to determine their qualification. Continuing training and professional development programs should be established to meet the needs of the individual and the position. Satisfactory performance of their assigned duties and assessment of individual performance such as that which is typically included in personal performance appraisals may be used to document continued satisfactory performance.</p> <p>Note: SRR does not operate any DOE Hazard Category 1 nuclear facilities at SRS.</p>	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
04.02.123	DOEO426.2-AChg1	Att.1.Ch.I. 5.d	<p>QUALIFICATION PROCESS</p> <p>Qualification is defined in terms of education, experience, training, examination, and any special requirements necessary for performance of assigned responsibilities. The requirements in this CRD are intended to provide reasonable assurance that personnel at DOE Hazard Category 1, 2, and 3 nuclear facilities possess qualifications to operate and maintain the facility safely and reliably under all conditions.</p> <p>Technicians and Maintenance Personnel. Technician and maintenance personnel qualification must include demonstrated performance capabilities (performance demonstrations) to ascertain their ability to adequately perform assigned tasks. Written examinations should be administered to personnel in these positions as applicable. However, a comprehensive final examination need not be administered to ascertain formal qualification of technicians and maintenance personnel (with the exclusion of radiological control technicians, who must comply with the requirements of 10 CFR 835). Satisfactory completion of the continuing training program, performance of their assigned duties, and assessment of individual performance such as that which is typically included in personal performance appraisals may be used to document continued satisfactory performance.</p> <p>Note: SRR does not operate any DOE Hazard Category 1 nuclear facilities at SRS.</p>	X						X	

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04.02.124	DOEO426.2-AChg1	Att.1.Ch.I. 5.e	<p>QUALIFICATION PROCESS</p> <p>Qualification is defined in terms of education, experience, training, examination, and any special requirements necessary for performance of assigned responsibilities. The requirements in this CRD are intended to provide reasonable assurance that personnel at DOE Hazard Category 1, 2, and 3 nuclear facilities possess qualifications to operate and maintain the facility safely and reliably under all conditions.</p> <p>Operators and Supervisors. Qualification of operators and their immediate supervisors must include examinations (written, oral, operational evaluations, performance demonstrations) as applicable to the position.</p> <p>(1) Written examinations and performance demonstrations must be administered to qualified operators and supervisors.</p> <p>(2) Written and oral examinations and operational evaluations must be administered to certified operators and supervisors.</p> <p>(3) Initial qualification/certification for a position must include a comprehensive written examination to ascertain the person's suitability to perform assigned duties.</p> <p>Note: SRR does not operate any DOE Hazard Category 1 nuclear facilities at SRS.</p>	X						X	

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S/RID Requirement Number	Source Document	Source Document Req# Number	Requirement Text	SRR Applicability						Phase I Compliance	
				Nuclear HC-1,2,3	Radi-ological	High Hazard Chemical	Low Hazard Chemical	Other Industrial	Facility Specific	Common	Facility Specific
04.02.125	DOEO426.2-AChg1	Att.1.Ch.I. 5.f	<p>QUALIFICATION PROCESS</p> <p>Qualification is defined in terms of education, experience, training, examination, and any special requirements necessary for performance of assigned responsibilities. The requirements in this CRD are intended to provide reasonable assurance that personnel at DOE Hazard Category 1, 2, and 3 nuclear facilities possess qualifications to operate and maintain the facility safely and reliably under all conditions.</p> <p>Examinations.</p> <p>(1) Written procedures that establish requirements for examinations must be developed and implemented. These procedures must address, at a minimum, examination/evaluation development, approval, security, administration, remediation, and maintenance of examination question banks.</p> <p>(2) Examinations must contain a representative sampling of the knowledge and skills identified in and derived from the learning objectives resulting from the systematic analysis of the position.</p> <p>(3) Examinations must include questions from sources such as Documented Safety Analysis, Technical Safety Requirements, system description manuals, operating procedures, Occurrence Reports, and other sources, as applicable.</p> <p>(4) The oral examination leading to certification must be separate from the operational evaluation for Hazard Category 1 nuclear facilities (Category A reactors).</p> <p>(5) Operational evaluations and oral examinations leading to certification may be combined for Hazard Category 2 and 3 nuclear facilities (Category B reactors and non-reactor nuclear facilities).</p> <p>(6) Oral examinations may be conducted as a one-on-one walkthrough or by an oral board or committee consisting of personnel identified by contractor facility management. The oral examination content must be tailored to evaluate the candidate's operational knowledge (initial/continuing training program subjects) and organizational awareness (e.g., operating philosophy, use of procedures, shift and relief turnovers, verification of system/equipment status) to determine how the individual will function in an operating environment.</p> <p>Note: SRR does not operate any DOE Hazard Category 1 nuclear facilities at SRS.</p>	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
04.02.128	DOEO426.2-AChg1	Att.1.Ch.I. 6.c	<p>CERTIFICATION PROCESS</p> <p>Certification is the process by which contractor management endorses and documents, in writing, the satisfactory achievement of qualification of a person for a position. Certification follows the completion of the qualification program for those positions identified as requiring certification. The notable difference between certification and qualification is that certification requires official contractor management endorsement of an individual's qualification to ensure senior management involvement in the qualification of key operations positions (i.e., operators and supervisors). Other significant differences between qualification and certification are the requirements associated with continuing training, examination, and reexamination for recertification.</p> <p>c. Certification must not be granted until all qualification requirements (including written and oral examinations and operational evaluations) and other specified requirements (e.g., medical examination) have been satisfactorily completed, and management has assured that the person is capable of safely performing all functions of the position. Satisfactory completion of qualifications which result in certification must be verified by a person or group other than the candidate's immediate supervisor or the person/group that provided the training. Certification must be valid for a period not to exceed two years unless revoked for cause (e.g., medical disqualification, performance deficiencies, or failure to maintain proficiency).</p> <p>MEDICAL EXAMINATIONS</p> <p>Medical examination requirements for other operating contractor personnel must be in accordance with operating contractor procedures.</p> <p>Note: SRR does not have any certified positions. This requirement is included in this SRID for continuity only.</p>	X						X	

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04.02.129	DOEO426.2-AChg1	Att.1.Ch.I. 9	<p>MEDICAL EXAMINATIONS</p> <p>An initial medical examination must be given to certified operator and certified supervisor candidates to verify health and physical fitness to safely perform their assigned tasks. A reexamination must be given to certified operators and certified supervisors at least every two years. Certified operators and certified supervisors must also be cleared by medical examination prior to returning to work following any illness or injury which keeps the person from performing their duties for a period exceeding one month. Medical examination requirements for other operating contractor personnel must be in accordance with operating contractor procedures.</p> <p>a. Medical examination requirements for Hazard Category 1/Category A reactors must be in accordance with ANSI/ANS 3.4-1996, Medical Evaluation of Licensed Personnel at Nuclear Power Plants, and NRC Regulatory Guide 1.134, Rev. 3, of 3-98, Medical Evaluation of Licensed Personnel at Nuclear Power Plants.</p> <p>b. Medical examination requirements for Hazard Category 2/Category B reactors must be in accordance with ANSI/ANS 15.4-2007, Selection and Training of Personnel for Research Reactors.</p> <p>Note: SRR has no certified operator or supervisor positions.</p> <p>EDUCATION AND EXPERIENCE REQUIREMENTS</p> <p>Education and experience requirements for operating organization personnel are intended to provide reasonable assurance that these personnel have, or can acquire, the knowledge and skills to operate and maintain nuclear facilities and related support systems in a safe and reliable manner under all conditions. Persons at the manager level must meet the requirements shown below prior to assuming the duties of the assigned positions. These positions (and supporting notes) identify the minimum education and experience requirements for operating organization positions. Except when noted otherwise, BS and AS degrees are in engineering or a related science.</p>	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
04.02.131	DOEO426.2-AChg1	Att.1.Ch.II.2 (cont'd)	<p>7. Technical Support Personnel Education: Degree or Diploma, BS Experience: Job related, 2 years Experience: Nuclear, 1 year</p> <p>8. Instructional Analyst/Developer Education: Degree or Diploma, BA, see note 4 Experience: Job related, 1 year</p> <p>9. Training Instructors Education: Degree or Diploma, HS Experience: Job related, see note 5 Experience: Nuclear, see note 6 and 7</p> <p>Notes: 1. The training manager must have a baccalaureate degree. The training manager must have courses in education or training that focus on instructional analysis, design, development, delivery and testing as well as evaluation of training programs if not included in the baccalaureate course material (baccalaureate need not be in engineering or related science). 2. Education or experience that is job related may be substituted on a case-by-case basis. The degree may fulfill 3 of the 4 years of nuclear experience on a one-for-one time basis. 3. Full-time related academic training (e.g., degree programs, trade schools, vocational programs, etc.) may be substituted on a one-for-one basis for 2 of the 3 years nuclear experience. 4. Instructional Analysts/Developers should have a baccalaureate degree in Training or Education. The Instructional Analyst/Developer must have courses in education or training that focus on instructional analysis, design, development, delivery and testing, as well as evaluation of training programs, if not included in the baccalaureate course material. 5. Experience consistent with the material being presented.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.02.131	DOEO426.2-AChg1	Att.1.Ch.II.2 (cont'd)	<p>6. Instructors who are responsible for instruction on subjects such as Technical Safety Requirements must have successfully completed training on facility operating characteristics and principles, and operating limits (Safety Limits, Limiting Control Settings, and Limiting Conditions for Operation) and their bases or have had significant involvement in writing the TSRs.</p> <p>7. Instructors must have demonstrated knowledge of instructional techniques through basic instructor or equivalent training or experience approved by the training manager. Instructors must have knowledge and/or expertise for the material being presented.</p> <p>8. Managers must receive facility-specific training based upon a comparison of the individual's background and abilities with the responsibilities and duties of the position.</p> <p>SRR added clarifications:</p> <p>1. For SRR S/RID purpose Table 1 has been transformed into text keeping the requirements unchanged. Table 2 and Table 3 are not applicable to SRR operations.</p> <p>2. This requirement is only applicable to SRR Nonreactor Hazard Category 2 and 3 Nuclear Facilities.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.02.134	DOEO426.2-AChg1	Att.1.Ch.II.5 (cont'd)	<p>(2) Non-reactor Nuclear Facilities. The operating organization must establish procedures which define requirements and frequency (e.g., 8 hours per month) necessary to maintain an active status.</p> <p>(3) Hazard Category 1/Category A Reactors. To maintain active status (proficiency), reactor operators and senior reactor operators must perform certification duties on a minimum of 36 hours per quarter in blocks of time no less than four hours.</p> <p>(4) Hazard Category 2/Category B Reactors. To maintain active status (proficiency), reactor operators and senior reactor operators must perform certification duties for at least 4 hours per calendar quarter.</p> <p>Note: SRR does not have any certified positions. This requirement is included in this SRID for continuity only.</p>							X	
04.03.019	DOEO426.2-AChg1	Att.1.Ch.I. 4.a	<p>INITIAL TRAINING</p> <p>Training Process A training program must be established for operations, maintenance, and technical staff personnel utilizing the systematic approach to training process. The basic elements of a systematic approach to training include: a systematic analysis of the jobs to be performed; learning objectives derived from the analysis of the job that describe desired performance after training; training design, development, and implementation based on the learning objectives; evaluation of trainee mastery of the objectives during training; and evaluation and revision of the training based on the performance of trained personnel in the job setting.</p> <p>DOE-HDBK-1078-94, Training Program Handbook: A Systematic Approach to Training, and DOE-HDBK-1074-95, Alternative Systematic Approaches to Training, should be used to implement a graded approach to the systematic approach to training process. Additional guidance documents for implementation of the systematic approach (e.g., analysis, learning objective development, developing examinations) can be found on the DOE Technical Standards web site http://www.standards.doe.gov/.</p> <p>Note: Paragraph 2 of this section does not contain specific requirements. Included here for information, program instructions, and clarity.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.020	DOEO426.2-AChg1	Att.1.Ch.I. 4.a.(1)	<p>INITIAL TRAINING</p> <p>Training Process The contractor must conduct periodic reviews, 4.a.(3), and facility or process change reviews, 4.a.(4), of the TIM or TPP to ensure that the document is applicable to current facility conditions and meets the requirements of this CRD.</p> <p>Note: Sections 4.a.(3) and 4.a.(4) are provided as S/RID requirements 04.03.022 and 04.03.023.</p>	X						X	
04.03.021	DOEO426.2-AChg1	Att.1.Ch.I. 4.a.(2)	<p>INITIAL TRAINING</p> <p>Training Process The training and qualification program must be developed using a graded approach based on the hazards involved and risk associated with the operation of the facility or activity. Accordingly, the level of detail and content of the training program, and associated documents or procedures, must reflect the personnel selection, training and qualification that are required at these facilities.</p>	X						X	
04.03.022	DOEO426.2-AChg1	Att.1.Ch.I. 4.a.(3)	<p>INITIAL TRAINING</p> <p>Training Process Contractors must perform periodic systematic evaluations of training and qualification programs (not to exceed three years) in accordance with DOE-STD-1070-94 "Guidelines for Evaluation of Nuclear Facility Training Programs." The TIM or TPP must be included in these reviews to ensure the document reflects current facility conditions and meets the requirements of this CRD.</p>	X						X	
04.03.023	DOEO426.2-AChg1	Att.1.Ch.I. 4.a.(4)	<p>INITIAL TRAINING</p> <p>Training Process The contractor's change control process must require changes to the facility, processes, Documented Safety Analysis, Technical Safety Requirements, procedures and regulations to be reviewed to determine whether the existing training and qualification programs are consistent with planned facility operations and/or process conditions. If training and qualification changes are necessary, the changes must be evaluated to determine if the TIM remains applicable to current facility conditions and meets the requirements of this CRD. If the TIM is no longer fully applicable to current facility conditions or no longer meets the requirements of this order, the contractor must update the TIM or TPP and obtain DOE approval.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.024	DOEO426.2-AChg1	Att.1.Ch.I. 4.a.(5)	INITIAL TRAINING Training Process The concept of training personnel as a team, stressing team communications and interaction, must be used where job functions require team solutions and activities.	X						X	
04.03.025	DOEO426.2-AChg1	Att.1.Ch.I. 4.a.(6)	INITIAL TRAINING Training Process Training programs must consist of a combination of classroom-type and on-the-job training, and include simulator and laboratory training as it applies to the position. Classroom-type training may include lectures, seminars, computer based training, and structured self-study activities.	X						X	
04.03.026	DOEO426.2-AChg1	Att.1.Ch.I. 4.a.(7)	INITIAL TRAINING Training Process The contractor must ensure that personnel who are in the process of completing training on tasks and activities for which they are not fully qualified must work under the direct supervision of someone who is qualified, and must not independently make decisions or take action when that work could affect facility safety. Additionally, contractor management must not place personnel who are in training in such positions. However, they may independently perform specific tasks or job assignments for which they are qualified.	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.027	DOEO426.2-AChg1	Att.1.Ch.I.4.b.(1)(a)	<p>INITIAL TRAINING</p> <p>General Training General Employee Training (GET). All persons employed either full- or part-time in DOE Hazard Category 1, 2, and 3 nuclear facilities must be trained commensurate with their job duties.</p> <p>GET programs must include training on the following areas as they relate to individual jobs:</p> <p>1 General description of facilities;</p> <p>2 Job related policies, procedures, and instructions;</p> <p>3 Radiological health and safety program (Training program content must be in accordance with 10 CFR 835);</p> <p>4 Facility emergency plans;</p> <p>5 Industrial safety/hygiene program;</p> <p>6 Fire protection program;</p> <p>7 Security program;</p> <p>8 Quality assurance program; and</p> <p>9 Criticality safety (Training program content must be in accordance with ANSI/ANS 8.20 - 1991, Criticality Safety Training).</p>	X						X	
04.03.028	DOEO426.2-AChg1	Att.1.Ch.I.4.b.(1)(b)	<p>INITIAL TRAINING</p> <p>General Training Visitors, contracted personnel, and temporary personnel must be under continuous escort while at the facility unless they have been trained in appropriate areas from the above list to the extent necessary to ensure safe execution of their duties.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.029	DOEO426.2-AChg1	Att.1.Ch.I. 4.b.(1)(c)	<p>INITIAL TRAINING</p> <p>General Training For persons requiring long-term (e.g., more than 10 working days) access, understanding of the information provided by the GET program must be evaluated by administering a written examination (includes computer and web based training examinations). All hazard identification and safety signage on the written examination must be identical in appearance and language as it exists at the facility. The examination must cover areas selected for training and must be of sufficient difficulty to ensure the person has adequate knowledge to work independently at the facility. Persons who do not pass this examination must not be permitted access without a continuous escort.</p>	X						X	
04.03.030	DOEO426.2-AChg1	Att.1.Ch.I. 4.b.(1)(d)	<p>INITIAL TRAINING</p> <p>General Training Changes in GET must be included in continuing training programs for all facility personnel. Periodic examinations must be administered on areas of the GET program that are included in the continuing training program.</p>	X						X	
04.03.031	DOEO426.2-AChg1	Att.1.Ch.I. 4.b.(2)	<p>INITIAL TRAINING</p> <p>Probabilistic Risk Assessment (PRA) Training. At those nuclear facilities for which a PRA has been performed and is applicable, initial and continuing training programs for operations and technical staff personnel must include training on the principal results of the PRA. This training must address the following:</p> <p>(a) The importance of facility systems in preventing damage or severe accidents;</p> <p>(b) Locations of all significant amounts of radioactive and other hazardous materials, and measures to prevent its release; and</p> <p>(c) The importance of maintaining operational limits and conditions, and the consequences of violating those limits.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.032	DOEO426.2-AChg1	Att. I.Ch.I. 4.b.(3)	<p>INITIAL TRAINING</p> <p>Technician and Maintenance Personnel Training.</p> <p>(a) All technicians and maintenance personnel must be qualified to perform the tasks associated with their specialty, or work under the direct supervision of personnel qualified to perform the activity or task.</p> <p>(b) Personnel who perform work on engineered safety features as identified in the facility Documented Safety Analysis must be trained on those system/components. Included in this category are systems having a direct impact on the safe operation of the facility. System training must, at a minimum, include the following elements:</p> <p>1 Purpose of the system;</p> <p>2 General description of the system including major components, relationship to other systems, and all safety implications associated with working on the system; and</p> <p>3 Related industry and facility-specific experience.</p> <p>(c) Training program content for radiological control technicians (RCT) must be in accordance with the requirements contained in 10 CFR 835, Occupational Radiation Protection and DOE-STD-1098-2008, Radiological Control. RCT training program elements (i.e., selection, training process, continuing training, qualification) must be in accordance with the requirements of this CRD.</p>	X						X	
04.03.033	DOEO426.2-AChg1	Att. I.Ch.I. 4.b.(4)(a)	<p>INITIAL TRAINING</p> <p>Technical Staff Training.</p> <p>Technical staff personnel are typically involved in surveillance, testing, analysis of facility data, planning modifications, program review, and technical problem resolution in their area of expertise (e.g., electrical, mechanical, instrumentation and control, chemistry, radiation protection, safety, quality assurance, facility engineering).</p> <p>The contractor must develop a list of specific technical staff positions that have a direct impact on employee, facility, environment or public safety.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.034	DOEO426.2-AChg1	Att. I.Ch.I. 4.b.(4)(b)	<p>INITIAL TRAINING</p> <p>Technical Staff Training. Entry-level technical staff personnel who provide technical support to the operating organization must be trained in the following facility specific subject areas as appropriate to the position, unless they provide official transcripts of coursework that adequately covers the topics:</p> <p>1 Facility organization;</p> <p>2 Facility fundamentals;</p> <p>a Heat transfer, fluid flow, and thermodynamics b Electrical science c Nuclear physics d Chemistry/chemistry controls e Process controls</p> <p>3 Facility systems, components, and operations;</p> <p>4 Simulator training (for facilities that have a simulator);</p> <p>5 Environment, Safety, and Health Orders;</p> <p>6 Codes and standards overview;</p> <p>7 Facility document system;</p> <p>8 Documented Safety Analysis, Technical Safety Requirements, and safety basis documentation;</p> <p>9 Nuclear criticality control;</p> <p>10 Material, maintenance, and modification control;</p> <p>11 ALARA and radwaste reduction program; and</p> <p>12 Quality Assurance/Quality Control practices.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.035	DOEO426.2-AChg1	Att. I.Ch.I. 4.b.(5)(a)	<p>INITIAL TRAINING</p> <p>Management and Supervisory Training. The topics listed in paragraph 4.b.(4)(b) must be considered for applicability when developing manager and supervisor training programs. If training related to those topics is applicable to the position, that training must be included in addition to the topics listed below. Supervisory skills and management training need not be subject to examination as part of initial training, nor is it necessary to include training on these topics in the continuing training program. It may, however, be appropriate to include additional topics such as these as part of the ongoing professional development program for managers and supervisors.</p> <p>Supervisory Skills Training. The supervisory skills training program must include the following (or equivalent):</p> <ol style="list-style-type: none"> 1 Leadership; 2 Interpersonal communication; 3 Roles, responsibilities, authority, and accountability; 4 Motivation of personnel; 5 Problem analysis and decision making; 6 Fitness for duty procedures; 7 Administrative policies and procedures; 8 Conduct of operations; 9 Conduct of maintenance; 10 Conduct of selection, training, qualification and certification of personnel; 11 Work control process; and 12 Management of personnel performance issues and performance appraisals. 	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.036	DOEO426.2-AChg1	Att.1.Ch.I. 4.b.(5)(b)	<p>INITIAL TRAINING</p> <p>Management Training. The management training program must include:</p> <p>1 Supervisory skills training; 2 Quality assurance and quality control; 3 Facility security and emergency plans; 4 Purchasing; 5 Material storage; 6 Facility modifications (configuration control); 7 Nuclear, industrial, and radiation safety; 8 Environmental issues; and 9 Budgeting.</p>	X						X	
04.03.037	DOEO426.2-AChg1	Att.1.Ch.I. 4.c	<p>INITIAL TRAINING</p> <p>Exceptions to Training. The initial training programs described in this CRD are developed for persons assumed to have the entry-level knowledge and skills required of the position for which they are to fill. Some candidates may already possess the knowledge and skills necessary for certain aspects of their job requirements that may be deemed equivalent to certain areas of training programs on the basis of prior education, experience, training, and/or testing. Testing (i.e., performance demonstrations, written examinations, oral examinations, or evaluation of work products) is the preferred method for determining such exceptions. In all cases, the requisite qualification examinations to establish qualification/certification must be completed.</p>	X						X	
04.03.038	DOEO426.2-AChg1	Att.1.Ch.I. 4.c.(1)	<p>INITIAL TRAINING</p> <p>Exceptions to Training. The operating contractor must establish an administrative procedure that describes the methods used to administer and document exceptions to initial training program requirements. When an individual seeks an exception, the name of the person, the specific subject for which the exception is requested and the justification for the exception must be included as part of the documentation. In all cases, the operating organization must ensure that sufficient facility-specific instruction is provided to enable the candidate to perform job requirements. The operating organization must submit the procedure for granting exceptions to the Heads of Field Organizations/Field Element Manager for NNSA Operations for approval.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.039	DOEO426.2-AChg1	Att.1.Ch.I. 4.c.(2)	<p>INITIAL TRAINING</p> <p>Exceptions to Training. Personnel placed in the training program that have satisfactorily completed equivalent training programs comparable in content and performance standards may be released from portions of training on an individual case basis. Exceptions from training should be based on a review of previous training records (i.e., transcripts), personal interviews, and on examinations that are based on the objectives stated for the training program.</p>	X						X	
04.03.040	DOEO426.2-AChg1	Att.1.Ch.I. 4.c.(3)	<p>INITIAL TRAINING</p> <p>Exceptions to Training. Exceptions to training requirements may be approved by contractor management after approval of the exception procedure by the DOE Heads of Field Organizations/NNSA Field Element Manager.</p>	X						X	
04.03.041	DOEO426.2-AChg1	Att.1.Ch.I. 4.c.(4)	<p>INITIAL TRAINING</p> <p>Exceptions to Training. Persons who believe that they have comparable knowledge or skills may challenge the requirement to attend training. Challenge examinations (written or performance) may be administered. These examinations must be sufficiently comprehensive to adequately test the learning objectives stated in the training. The use of challenge tests is not considered an exception to the training and as such, challenge tests are excluded from the requirements for exceptions in the preceding portions of this section. Accordingly, they do not need to be approved on a case-by-case basis.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.042	DOEO426.2-AChg1	Att.1.Ch.I. 7.a	<p>CONTINUING TRAINING</p> <p>Continuing training programs must be established to maintain and enhance the knowledge and skills of operating contractor personnel who perform functions associated with engineered safety features as identified in the facility Documented Safety Analysis (includes operations, maintenance, and technical support personnel). The guidance in DOE-HDBK-1118-99, Guide to Good Practices for Continuing Training, should be used to develop continuing training programs.</p> <p>General.</p> <p>(1) Continuing training programs must be structured commensurate with specific position needs, and must be administered on a cycle not to exceed two years.</p> <p>(2) Continuing training must include, at a minimum, training in significant facility system and component changes, applicable procedure changes, applicable industry operating experience, selected fundamentals with emphasis on seldom used knowledge and skills necessary to assure safety, and other training as needed to correct identified performance problems.</p> <p>(3) Periodic examinations (written, oral, operational evaluations, performance demonstrations, as applicable to the position) must be administered and documented throughout the cycle on material included in the program.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.043	DOEO426.2-AChg1	Att.1.Ch.I. 7.b (cont'd)	(h) Documented Safety Analysis and Technical Safety Requirements. Note: SRR does not have any certified positions. This requirement is included in this SRID for continuity only.							X	
04.03.044	DOEO426.2-AChg1	Att.1.Ch.I. 8	REQUALIFICATION Personnel (including operations, maintenance, and technical support personnel) may be requalified by contractor management upon completion of the continuing training program, including requisite examinations (written, oral, and operational/performance). Personnel and their immediate supervisors must not be allowed to continue to function in qualified or certified positions if they have not completed all of the requalification or recertification program elements within the two year continuing training cycle. The contractor must indicate by signature that the person has successfully completed the requalification program and is formally requalified.	X						X	
04.03.045	DOEO426.2-AChg1	Att.1.Ch.I. 8.a.(1)	REQUALIFICATION Requalification Examinations Requalification must include requisite examinations. This may be achieved by either administering a comprehensive biennial requalification examination, including any operational evaluations or performance demonstrations that may be specified, or by administering periodic examinations (e.g., quarterly) during the requalification cycle. (1) Requalification Examinations for certified and qualified operators and supervisors must include subjects in which the person is expected to be knowledgeable and emphasize those subjects covered by the continuing training program. Note: SRR has no certified operator or supervisor positions.	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.046	DOEO426.2-AChg1	Att.1.Ch.I. 8.a.(2)	<p>REQUALIFICATION</p> <p>Requalification Examinations Requalification must include requisite examinations. This may be achieved by either administering a comprehensive biennial requalification examination, including any operational evaluations or performance demonstrations that may be specified, or by administering periodic examinations (e.g., quarterly) during the requalification cycle.</p> <p>(2) Written examinations and performance demonstrations must be administered to qualified operators and supervisors.</p>	X						X	
04.03.047	DOEO426.2-AChg1	Att.1.Ch.I. 8.a.(3-6)	<p>REQUALIFICATION</p> <p>Requalification Examinations Requalification must include requisite examinations. This may be achieved by either administering a comprehensive biennial requalification examination, including any operational evaluations or performance demonstrations that may be specified, or by administering periodic examinations (e.g., quarterly) during the requalification cycle.</p> <p>(3) Written and oral examinations and operational evaluations must be administered to certified operators and supervisors. (4) The oral examination must be separate from the operational evaluation for Hazard Category 1 (Category A reactor) nuclear facility certified personnel. (5) Operational evaluations and oral examinations may be combined for Hazard Category 2 and 3 (Category B reactor and non-reactor) nuclear facility certified personnel. (6) Operational evaluations must require certified operators and certified supervisors to demonstrate an understanding of and the ability to perform a representative sampling of the control manipulations applicable to the position and the facility.</p> <p>Note: SRR does not have any certified positions. This requirement is included in this SRID for continuity only.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.048	DOEO426.2-AChg1	Att.1.Ch.I. 8.a.(7)	<p>REQUALIFICATION</p> <p>Requalification Examinations Requalification must include requisite examinations. This may be achieved by either administering a comprehensive biennial requalification examination, including any operational evaluations or performance demonstrations that may be specified, or by administering periodic examinations (e.g., quarterly) during the requalification cycle.</p> <p>(7) If a requalification or recertification examination is failed, or personnel show serious job performance deficiencies which indicate that he or she may perform in an unsafe manner, or if any required training element lapses, the person must be removed from activities for each qualification or certification area that requires the lapsed element.</p> <p>Qualification or certification may be regained after completing remedial training designed to correct the deficiency(s) and satisfactorily completing a reexamination or completion of the lapsed training requirement. In addition, recertification must be based on the following: (a) A review of individual operating performance during the past certification period by either line management, by a committee, or by a person designated by management; and (b) A current medical examination.</p> <p>Note: SRR has no certified operator or supervisor positions.</p>	X						X	
04.03.049	DOEO426.2-AChg1	Att.1.Ch.I. 8.b.(1)	<p>REQUALIFICATION</p> <p>Absences When a qualified or certified individual has been absent from duties for greater than 3 months, but less than 12 months, selected retraining (including written and oral examinations and operational/performance evaluations, as deemed necessary) must be given prior to reassignment to duties. The qualification or certification base date remains the same as it was before the absence.</p> <p>Note: SRR has no certified operator or supervisor positions.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.050	DOEO426.2-AChg1	Att.1.Ch.I. 8.b.(2)	<p>REQUALIFICATION</p> <p>Absences When a qualified or certified individual has been absent for greater than 12 months, comprehensive written and oral examinations and operational/performance evaluations (as required of initial candidates) must be given to determine weak areas. Retraining and reexamination must be required in areas of weakness, and upon successful completion, a new qualification or certification date may be established.</p> <p>Note: SRR has no certified operator or supervisor positions.</p>	X						X	
04.03.051	DOEO426.2-AChg1	Att.1.Ch.I. 8.c.(1)	<p>REQUALIFICATION</p> <p>Extensions An extension of qualification or certification may be granted to persons on a case-by-case basis in order to support operational and mission commitments.</p> <p>The operating contractor must establish an administrative procedure for granting extensions to qualification- or certification. At a minimum, the documentation to support the extension must include:</p> <p>(a) Responsibility for approval of the extension; (b) Length of the extension; and (c) Explanation of the circumstances that prevented the person from completing the requirements.</p> <p>Note: SRR has no certified operator or supervisor positions.</p>	X						X	
04.03.052	DOEO426.2-AChg1	Att.1.Ch.I. 8.c.(2)	<p>REQUALIFICATION</p> <p>Extensions Extensions of certification of operators and supervisors must be approved by the DOE Heads of Field Organizations / NNSA Field Element Manager. Extensions of qualification of operators and supervisors may be approved by contractor facility management.</p> <p>Note: SRR has no certified operator or supervisor positions.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.03.056	DOEO426.2-AChg1	Att. I.Ch.II.6.(d)	<p>NON-REACTOR NUCLEAR FACILITY SPECIFIC REQUIREMENTS</p> <p>This section provides specific training requirements for operators and supervisors.</p> <p>d. Operations Management Personnel. Operations management personnel must be qualified.</p> <p>(1) Training must be satisfactorily completed on applicable facility/process safety basis documents.</p> <p>(2) Training must be provided on process knowledge to demonstrate operational knowledge of applicable facilities/processes.</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.04.011	DOEO426.2-AChg1	Att.1.Ch.I.10	<p>RECORDS</p> <p>Contractors must develop and implement administrative procedures that specify requirements for the maintenance of training, qualification and certification records. Guidance in Nuclear Information and Records Management Association (NIRMA) TG-17, Guidelines for Management of Nuclear Related Training Records, TG-15, Management of Electronic Records, and TG-21, Electronic Records Protection and Restoration, should be used to help standardize identification, handling, and storage of training records. Qualification and certification of personnel must be documented in an easily auditable format. Individual record documentation must include the following at a minimum:</p> <p>NOTE: Some documents may be sensitive or classified due to their content (e.g. medical or personally identifiable information) and therefore must be protected in secured locations other than training record files. In such cases, the TIM or TPP should indicate the location where the secured information can be found. Additionally, controlling access to training records is required to maintain examination security.</p> <p>a. Education, experience, and employment history and most recent health evaluation summary;</p> <p>b. Training programs completed and qualification/certification achieved;</p> <p>c. Latest completed checklists, graded written examinations (with answers corrected as necessary or examination keys), simulator examinations (where applicable), and operational evaluations used for certification. The record should include an evaluation of knowledge and performance during operational evaluations;</p> <p>d. Lists of questions asked and the examiner's overall evaluation of the responses on oral examinations-;</p> <p>(1) Correspondence relating to exceptions to training requirements and extensions of qualification;</p> <p>(2) Records of qualification for one-time-only special tests or operations; and</p>	X						X	

TABLE 1 - S/RID FUNCTIONAL AREA 04 (TRAINING AND QUALIFICATIONS) 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
04.04.011	DOEO426.2-AChg1	Att.1.Ch.I.10 (cont'd)	<p>(3) Attendance records for required training courses or sessions.</p> <p>e. A historical record that documents initial qualification and applicable information from the above list that verifies the most recent qualification must be retained in individual records, either hard copy or electronically. Superseded information should be handled in accordance with current DOE records disposition requirements.</p> <p>Note: SRR has no certified operator or supervisor positions.</p>	X						X	