



U.S. Department of Energy
Oak Ridge Office of
Environmental Management

OREM-OM-PL-01 R1

March 2016

MANAGEMENT SYSTEM DESCRIPTION

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Manager

Date: 5/13/16

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REVISION LOG

Revision	Description of the Revision	Issue Date
0	Initial Issue.	1/10/2014
1	Organizational responsibilities updated to align with the reorganization of the Oak Ridge Office of Environmental Management.	5/13/2016

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ACRONYMS

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOE	U.S. Department of Energy
EB	Engineering Branch
EM	Environmental Management
ETTP	East Tennessee Technology Park
FOB	Facilities Oversight Branch
FRAA	Functions, Responsibilities, Authorities, and Accountabilities
IPT	Integrated Project Team
ISC-OR	Integrated Support Center-Oak Ridge
ISMS	Integrated Safety Management System
KMD	Key Management Documents
OMD	Operations Management Division
OREM	Oak Ridge Office of Environmental Management
ORMSD	Oak Ridge Management System Description
ORNL	Oak Ridge National Laboratory
PCD	Procurement and Contracts Division
PED	Planning and Execution Division
PBMB	Planning and Baseline Management Branch
PMB	Project Management Branch
PFPD	Portfolio Federal Project Director
PSB	Program Support Branch
QA	Quality Assurance
QAB	Quality Assurance Branch
QAP	Quality Assurance Program
QIP	Quality Implementation Plan
QMSD	Quality and Mission Support Division
SCWE	Safety Conscious Work Environment
SME	Subject Matter Expert
SSWMB	Safety, Security, and Waste Management Branch
Y-12	Y-12 National Security Complex

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1.0 INTRODUCTION

The Oak Ridge Management System Description (ORMSD) describes how the Oak Ridge Office of Environmental Management (OREM) is structured to accomplish its mission of protecting the region's health and environment, ensuring the Department's missions in science, energy, and national security, and cleaning land for future use. This document defines how OREM implements requirements and expectations from its Environmental Management (EM) Quality Assurance Program (QAP), Integrated Safety Management System (ISMS) Program Description, and Quality Implementation Plan (QIP). When employees comply with the processes identified in the ORMSD, they are also implementing these Key Management Documents (KMD).

2.0 MANAGEMENT AUTHORITY

OREM's management oversight responsibility originates from the Secretary of Energy as documented in the Oak Ridge reorganization authorized on August 18, 2011. It flows through the Under Secretary for Management and Performance to the Assistant Secretary for EM, and then to the OREM Manager. Authorities and associated responsibilities flow throughout the organization to accomplish the work and missions assigned to OREM.

Generally, within the structure of the OREM office, authorities and responsibilities to manage projects will rest with the Portfolio Federal Project Directors (PFPDs) since they are normally appointed as Contracting Officer's Representatives for the major prime contractors and authorized to approve Baseline Change Requests/Proposals. Contract management authorities are normally exercised by the Contracting Officers assigned to the Procurement and Contracts Division. Functional authorities and responsibilities (e.g., Nuclear Supervisory, Industrial Safety, Waste Management, Quality Assurance, etc.) typically reside within divisions. Where those functions are needed for specific projects, divisional personnel are deployed to Integrated Project Teams (IPT). Supervisory authorities reside with the Division Directors, Associate Division Directors, and Branch Chiefs.

Specific authorities and responsibilities are defined within delegation of authority memoranda, U.S. Department of Energy (DOE) command media (e.g., Orders, Manuals, etc.), Office of Environmental Management Standard Operations Procedures and Protocols, OREM command media (e.g., procedures, etc.), appointment letters (e.g., Contracting Officer's Representative appointments, etc.), and Contracting Officer warrants.

Note that all EM personnel are granted Stop Work Authority in accordance with the Safety Culture Sustainment Policy Statement and the OREM Integrated Safety Management System Description.

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OREM Federal and contractor operations are also subject to independent DOE oversight that originates from outside of the organization. This independent oversight may be provided by the Office of Independent Oversight, the Office of Inspector General, or the Office of Enforcement. Additional offices within the Office of EM may also provide assistance and direction.

3.0 ORGANIZATION STRUCTURE AND RESPONSIBILITIES

The OREM organizational structure consists of four (4) functional divisions that are focused on the safe delivery of projects consistent with the organization’s KMDs. These functional divisions provide program, project, and/or subject matter area expertise to IPTs led by PFPDs that execute work across the three (3) project portfolios [Oak Ridge National Laboratory (ORNL), Y-12 National Security Complex (Y-12), and East Tennessee Technology Park (ETTP)].

Attachment A is a table of program area responsibilities for each of the four (4) functional divisions. Note: The latest revision of the OREM Organizational Chart can be found in the OREM Records Management System.

The Office of the Manager [EM-90] is not a functional division but provides overall direction and leadership to OREM. This is achieved through regular engagement and oversight of the four functional Divisions and through the use of designations and delegations as needed to ensure the successful completion of critical projects and programs. The primary leadership functions performed by the Office of the Manager are listed in Attachment A.

The four (4) functional divisions are: Procurement and Contracts Division (PCD), Planning and Execution Division (PED), Operations Management Division (OMD), and Quality and Mission Support Division (QMSD). High-level summaries of each of these functional organizations are included below. More detailed information of each division is available in the OREM Functions, Responsibilities, Authorities, and Accountabilities (FRAA) document.

3.1 PROCUREMENT AND CONTRACTS DIVISION

The PCD [EM-91] consists of a Division Director and subordinate staff made up of contracting officers, contract specialists, and cost estimators; all report directly to the Division Director. The division is responsible for all aspects of procurement and contracts management and cost estimating for OREM. This includes the award, administration, and closeout of contracts and financial assistance. The PCD is also responsible for cost estimating for contracts and projects. It also administers the OREM Small Business Program and serves as OREM’s liaison for the Acquisition Career Management Program; the EM Consolidated Business Center; Property Management; and Government Furnished Services and Items.

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3.2 PLANNING AND EXECUTION DIVISION

The PED [EM-92] consists of two (2) branches and three (3) project portfolios. The branches include the Project Management Branch (PMB) and Planning and Baseline Management Branch (PBMB). Each branch is led by a Branch Chief that reports directly to the Associate Division Director. The three (3) project portfolios include the ORNL, Y-12, and ETTP. The project portfolios are each led by a PFPD. Each project portfolio has a plan that presents the roadmap for completing OREM’s cleanup scope at each site. The Associate Director and three (3) PFPDs report directly to the Division Director.

The PED performs the planning, execution, and financial management functions for OREM capital projects and operational activities. Its objective is to ensure that OREM delivers projects on schedule, within budget, and is fully capable of meeting mission performance and environmental, safety, and health standards.

Project Management Branch: The PMB [EM-921] addresses OREM's responsibilities for the planning and execution of projects as specified in DOE Order 413.3B, *Program and Project Management for the Acquisition of Capital Assets*, including those involving the Critical Decision process, delivery of projects, reporting, and career development and certification. Similarly, the branch plans, manages, and reports on operational activities using DOE Order 413.3B framework. OREM established the branch to identify key project management requirements, provide procedures, and certification of PFPDs and Project Managers to effectively carry out their responsibilities. The branch also ensures that OREM delivers both its capital and operations projects on schedule, within budget, and be fully capable of meeting mission performance and environmental, safety, and health standards. The PMB is an integral component of OREM's performance assurance and contractor oversight functions and performs surveillance and assessment activities in accordance with OREM procedures for its assigned programs and responsibilities.

Planning and Baseline Management Branch: The PBMB [EM-922] addresses OREM's responsibilities for budgeting, baseline management, monitoring, and reporting performance on projects. The branch fulfills these responsibilities using an integrated management and control system with principles and policies that requires all work to be planned through completion; establishes schedule and cost baselines for the work; objectively measures performance against these baselines; analyzes variances; and implements management actions to mitigate risks and address cost and schedule performance issues.

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Portfolio Federal Project Directors: The PFPDs are responsible for executing environmental cleanup activities for the projects within their designated portfolio. The PFPDs have line-management responsibility for work within their portfolio and are fully supported by the two (2) branches of PED and three (3) other OREM Divisions in the planning and execution of work. Projects are accomplished through the use of IPTs, which are led by PFPDs or designated Federal Project Directors within a PFPD's portfolio. The IPTs are made up of both Federal and contractor Subject Matter Experts (SMEs) who contribute to a project's execution by their specific expertise.

The following is a summary of each portfolio's scope:

ORNL Project Portfolio: Environmental clean-up activities at ORNL focus on the disposition of the transuranic waste inventory, disposition of the U-233 inventory from Building 3019, operation of waste treatment facilities, and completion of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) cleanup at the site.

Y-12 Project Portfolio: Environmental clean-up activities at Y-12 focus on developing infrastructure for future clean-up (including construction of a mercury treatment facility and a new CERCLA disposal cell), operating waste disposal facilities, and completing CERCLA cleanup at the site, particularly remediation of mercury contamination sources.

ETTP Project Portfolio: Environmental clean-up activities at ETTP focus on completing CERCLA clean-up to support the site's closure and transition to a commercial industrial park. As clean-up activities at ETTP are completed, some areas are being preserved to recognize the site's historical significance.

3.3 OPERATIONS MANAGEMENT DIVISION

The OMD [EM-93] consists of three (3) branches: Facilities Oversight Branch (FOB), Engineering Branch (EB), and Safety, Security, and Waste Management Branch (SSWMB). Each branch is led by a Branch Chief that reports directly to the Associate Director. The Associate Director and a Technical Advisor report directly to the Division Director. The Division Director is responsible for providing critical support to the programs and projects to ensure that OREM can accomplish its mission in a safe and technically-compliant manner. The Division Director is supported by a highly-qualified diverse staff of SMEs that provide real-time oversight of the contractors' programs, systems, and operations.

Facilities Oversight Branch: The FOB [EM-931] provides overall program management in facility operations. This includes independent verification of contractor implementation of nuclear safety basis, the Occurrence Reporting Program, Conduct of Operations; Work Planning and Control; and Point of

Contact for environment, safety, and health reporting in accordance with DOE EM Headquarters notification and oversight procedures. This branch has overall program management responsibility for EM Facility Representative activities, which includes Technical Qualification Program training and certification, program plans and procedures, and quarterly reporting. The FOB also provides front-line oversight of contractor operations. It is an integral component of OREM's performance assurance and contractor oversight functions and performs surveillance and assessment activities in accordance with OREM procedures for its assigned programs and responsibilities.

Safety, Security, and Waste Management Branch: The SSWMB [EM-932] provides program direction and technical expertise to ensure that OREM can conduct its mission safely and compliantly. The branch consists of Federal and support contractor SMEs that provide program and technical expertise in the areas of Industrial Hygiene, Occupational Safety, Electrical and Fire Safety, Radiation Protection and Health Physics, Aviation Safety, Waste Management, Transportation, Emergency Management, and Security. The branch is responsible for programmatic direction to the projects and operations, technical review of safety and waste management documents, and coordination of emergency management and security plans and procedures. The SSWMB is an integral component of OREM's performance assurance and contractor oversight functions and performs frequent surveillance and assessment activities in accordance with OREM procedures for its assigned programs and responsibilities

Engineering Branch: The EB [EM-933] provides program area expertise related to engineering (i.e., civil, structural, and nuclear), safety systems, nuclear startup and readiness, safety basis, criticality safety, maintenance and Price-Anderson Amendment Act enforcement. The EB is responsible for reviewing Documented Safety Analysis/Technical Safety Requirements, preparing Safety Evaluation Reports, reviewing and recommending the contractor's position on Evaluation of the Safety of the Situation for approval, potential inadequacy of the safety analysis, Unreviewed Safety Question Determination, and Justification for Continued Operations as they relate to nuclear activities. In addition, the branch is also responsible for the contractor' implementation of the criticality safety, and maintenance programs. The EB is an integral component of the OREM's performance assurance and contractor oversight functions and performs surveillance and assessment activities in accordance with OREM procedures for its assigned programs and responsibilities.

3.4 QUALITY AND MISSION SUPPORT DIVISION

The QMSD [EM-94] consists of two (2) branches: the Quality Assurance Branch (QAB) and Program Support Branch (PSB) as well as a Business Services element. Both branches consist of a Branch Chief, who report directly to the Division Director, and subordinate support staff. Business Services is an extension

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of the Division Director’s office and provides support in office administration, facility management, information technology, records management, and conference tool management. This diverse division, which is responsible for a wide range of administrative, technical, and programmatic project management services, is linked in function by providing services to all of OREM. The Division Director serves as the OREM Quality Assurance (QA) Manager, OREM’s representative to the QA Corporate Board, the Information Technology Investment Review Board, and also performs strategic regulatory engagement to remove obstacles to critical project success.

Quality Assurance Branch: Working under the direction of the Branch Chief, the QAB [EM-941] staff is responsible for ensuring program-wide consistency for the execution and delivery of QA for OREM and OREM contractors pursuant to DOE Order 414.ID, *Quality Assurance*, and EM-QA-001, *EM Quality Assurance Program (QAP)*. The Branch Chief serves as the Assessment Program Manager, Administrative Document Administrator, and Authorizing Official Designated Representative for OREM classified and unclassified information systems. Members of the branch staff are designated to fulfill the roles of Software QA SME, Training Manager, Operating Experience/Lessons Learned Coordinator, and Suspect/Counterfeit Items Coordinator. Additional staff functions include management of the OREM Issues Management System, Integrated Assessment Program, contractor assurance systems, OREM procedure development and administration, and Directives Management.

Program Support Branch: The PSB [EM-942] consists of one Branch Chief and subordinate staff. The Branch Chief serves as the first-line supervisor for all staff within the branch and reports to the QMSD Director. The PSB staff provide a wide range of services to the OREM program including general support to program obligations in the area of environmental compliance, public and regulatory interface activity, and reindustrialization of ETTP. The Branch Chief serves as the Alternate Deputy Designated Federal Official to the Oak Ridge Site Specific Advisory Board. Branch staff are designated to fulfill the role of Oak Ridge Reservation Federal Facility Agreement Program Manager and National Environmental Policy Act Compliance Officer for the OREM program. Additional staff functions include management of the Facility Information Management System, Technology Development, Safety Culture and Safety Conscious Work Environment (SCWE), Historic Preservation, Communications, and Oak Ridge Reservation Groundwater Monitoring/Investigations.

4.0 KEY MANAGEMENT DOCUMENTS

The KMDs are overarching documents developed to provide the framework to execute OREM’s mission. These documents identify the procedures, processes, and policies to perform Federal work. KMDs are approved by the OREM Manager.

OREM has identified the following six (6) KMDs:

- OREM Program Plan: Fiscal Years 2014 to 2024
- OREM Functions, Responsibilities, Authorities and Accountabilities Document
- OREM Quality Implementation Plan
- OREM Integrated Safety Management System Program Description
- OREM Safety Conscious Work Environment and Safety Culture Sustainment Policy Statement
- Oak Ridge Management System Description

The OREM Program Plan is a strategic document that identifies the organization's vision, mission, goals, performance measures, and core values. The document is reviewed and updated at least bi-annually and used as a ten-year plan that addresses strategies for cleanup and programmatic improvements. The document also lists accomplishments, which are updated during each revision.

The OREM FRAA document serves as an integral part of implementation of DOE Policy 450.4A, *Integrated Safety Management Policy*. This document establishes clear lines of responsibility, authority, and accountability for all members of the OREM team. It is a mechanism that OREM uses to hold itself and its contractors accountable for safety performance at all organizational levels.

The OREM QIP establishes OREM's adoption of the DOE EM Headquarters QAP. This document identifies the procedures and processes that implement the QAP and executes the OREM mission.

The OREM ISMS Program Description defines how OREM integrates environment, safety, and health requirements. It also defines controls for Federal work activities and the implementation of ISMS for contractor activities. Additionally, it explains OREM safety values, objectives, and approach for ensuring protection to the public, workers, and environment.

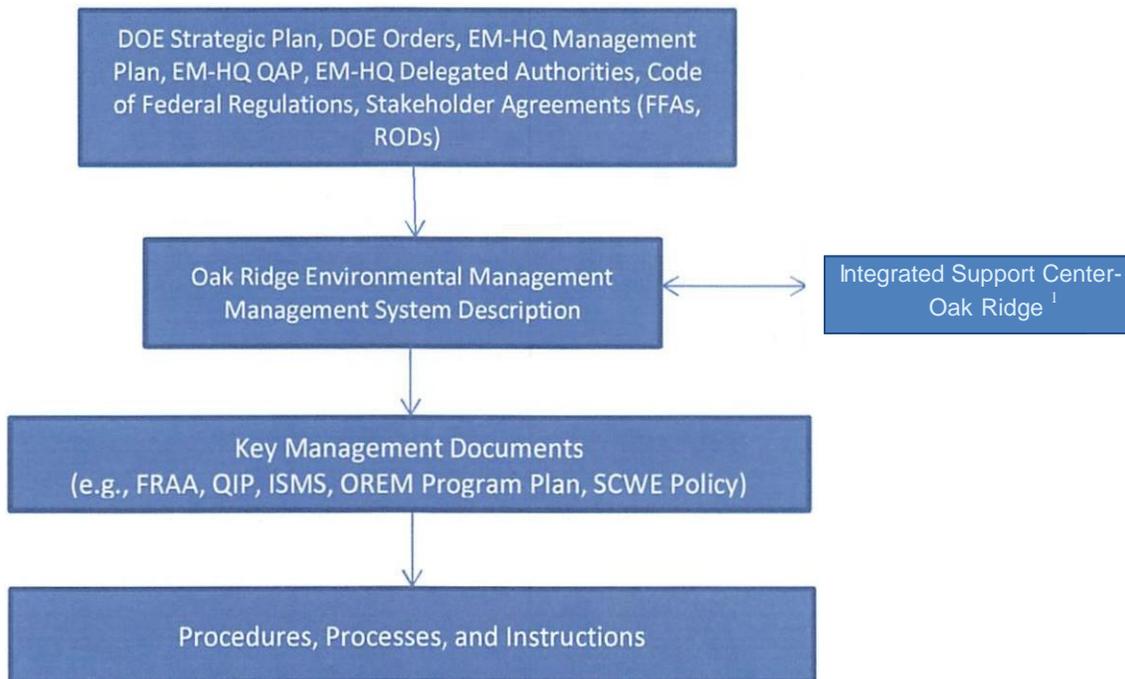
The OREM Safety Conscious Work Environment and Safety Culture Sustainment Policy Statement is management's commitment to foster and sustain a safety culture with a safety conscious work environment in all facilities and for all work. The policy commits the OREM leadership team to addressing and resolving issues and concerns in a timely manner.

5.0 HIERARCHY OF DOCUMENTS

The ORMSD identifies a hierarchy of documents used to describe how Federal work will be accomplished. The purpose of identifying the document hierarchy is to codify how this work will be accomplished. Procedures, processes, and instructions are

published to provide a consistent approach to accomplish work in accordance with DOE requirements that are in alignment with the regulations, rules, and requirements promulgated by DOE, ORMSD, and other KMDs.

Functional organizations have the responsibility to develop procedures, processes, and/or instructions consistent with the ORMSD and other KMDs. PFPDs have the responsibility to ensure that their project portfolios are executed in accordance with established KMDs, processes, procedures, and instructions. The hierarchy of documents is depicted below.



¹ The role of the Integrated Support Center Oak Ridge is defined in Section 6.0.

6.0 PROJECT CENTRIC MANAGEMENT APPROACH AND ORGANIZATION

Using the overall organization description, the hierarchy of documents, and the management responsibilities, OREM uses a project centric management approach to clearly define the functions, responsibilities, and authorities needed to successfully execute its mission. This approach is designed to be managed by a functional organization. The ORMSD uses both the ISMS and QIP to map or assign all requirements to a functional organization. Alignment between QA and ISMS is critical for the success of the OREM mission. Attachment B is a QA/ISMS alignment wheel that illustrates how these two (2) systems are integrated.

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As identified in Section 3.0, OREM has identified four (4) functional divisions to execute several program areas. In addition, the Office of the Manager also executes specific program areas. Attachment A details specific program area responsibilities by functional organization. To evaluate changes to assigned requirements, functional Division Directors appoint SMEs to manage each program area and are considered the program area point of contact. The functional steward of each assigned program area is the functional Division Director. Program area points of contacts ensure that requirements are identified in OREM procedures, processes, or instructions.

Multiple business and technical functions are also provided to OREM through the Integrated Support Center-Oak Ridge (ISC-OR). The services provided are documented in the ISC-OR Renewal Plan and Service Agreement. When the service is performed primarily by or within the ISC-OR, integration will be accomplished by having ISC-OR utilize the procedures identified in their internal processes to complete the action, with specific performance criteria required by OREM.

The OREM work effort is generally conducted by OREM Federal employees. ISC-OR staff and support service contractors may also work within the OREM processes.

7.0 RECORDS

The following Records are generated as a result of the development of this plan:

Record Description (section)	Record Type (QL-1, QL-2, N/A)*	Form Number (if applicable)	Record Owner
Management System Description	QL-1	N/A	OREM Manager

*Records for Quality Level-1 (QL-1) activities shall be processed with an OREM QL-1 Quality Records Verification Form per OREM-QA-IP-05, Quality Records, and entered into the Records Management System per OREM-OM-IP-08, Records Management.

Records for QL-2 activities and non-QA records shall be entered into the Records Management System per OREM-OM-IP-08, *Records Management*.

8.0 APPENDICES

- Appendix A – Functional Organization with Assigned Program Areas
- Appendix B – Quality Assurance and Integrated Safety Management Alignment Wheel

9.0 REFERENCES

- DOE Order 413.3B, *Program and Project Management for the Acquisition of Capital Assets*
- Oak Ridge Integrated Support Center Renewal Plan and Service Agreement, March 2012
- EM Quality Assurance Policy, Rev. 1
- EM Quality Assurance Program, EM-QA-001, Rev. 1
- OREM-OM-PL-02, Functions, Responsibilities, Authorities and Accountabilities
- OREM-OM-PL-03, Integrated Safety Management System Description
- OREM-OM-PL-04, Quality Assurance Implementation Plan

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**APPENDIX A – FUNCTIONAL ORGANIZATION WITH ASSIGNED
PROGRAM AREAS**

**Office of the Manager
EM-90**

- Project Management Executive for capital asset projects, as delegated
- Fee Determination Official
- National TRU Waste Corporate Board Member
- Media Spokesperson
- Deputy Designated Federal Officer for Site Specific Advisory Board
- Human Resources*
- Legal*
- Employee Concerns*

**Procurement & Contracts
Division
EM-91**

- Contract Management
- Procurement
- Cost Estimating
- ACMP
- EMCBC Coordination
- Property
- GFS&I
- Small Business Management
- Contract Ombudsman

**Planning & Execution
Division
EM-92**

- DOE Order 413.3B Compliance
- Portfolio Management
- CORs/ACOR
- Lead IPTs
- Critical Decision Approvals
- Regulatory Milestones
- Capital Asset Project Management
- Operation Activities Management
- Contract Technical Evaluations
- IPTs
- PMCDP Certification and Development
- EMAAB – Administration/Schedule
- Fiscal Year Work Plans
- Project Regulatory Compliance Management
- Critical Decision Document Management
- CCB
- Program Planning
- Budget Formulation
- Baseline Management
- Project Controls
- Risk Management Program
- IPABS/PARS II Reporting
- Environmental Liabilities
- Financial Assurance Memo
- 10-Year Site Plan

**• Operations Management
Division
EM-93**

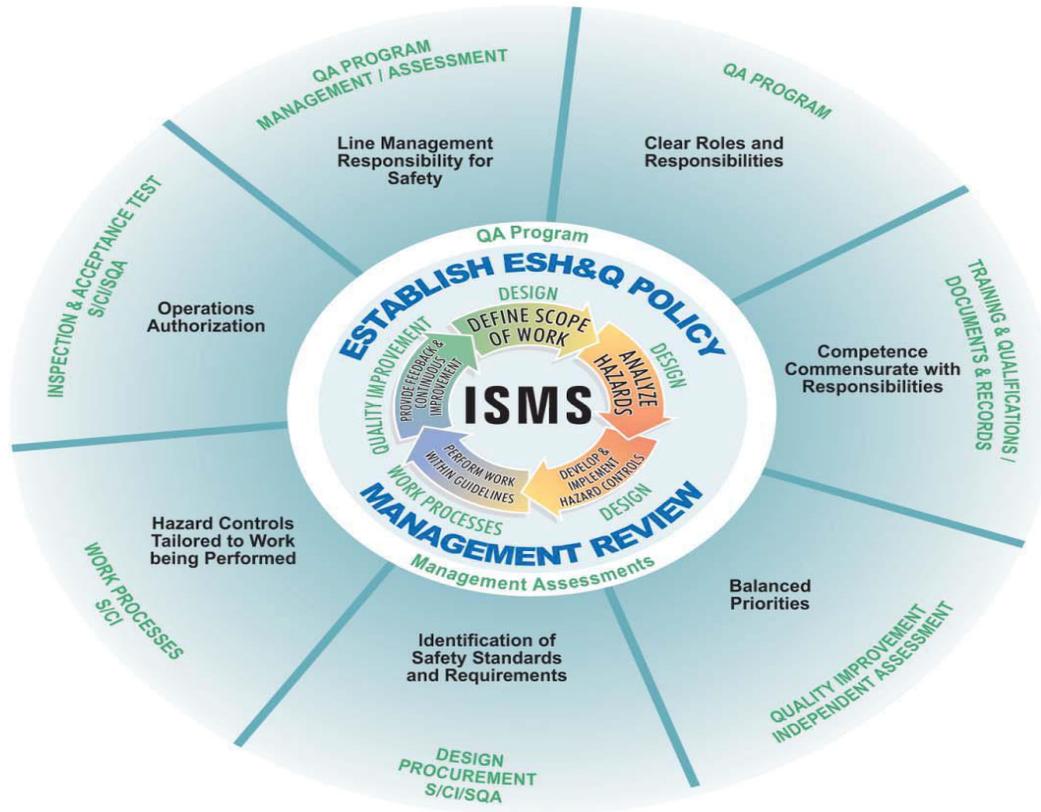
- POC for ESH reporting in accordance with EM-HQ notification
- ORPS
- Fac Rep Program
- IVR
- Conduct of Operations
- Work Planning & Controls
- Worker Safety and Health (ISMS, IS, IH, Electrical, RadCon, Health Physics, VPP, Aviation Safety, FEOS, CAIRS)
- Training and Qualifications (TQP)
- Waste Management (e.g., LFRG self-regulatory)
- Transportation
- Fire/Emergency Management
- Security (NMC&A, Cyber, Physical, Classification)
- Engineering (Structural, Nuclear, Mechanical, etc.)
- Maintenance
- Safety Systems Oversight
- Nuclear Start-up/Readiness
- Safety Basis Program (TSR)

**Quality & Mission Support
Division
EM-94**

- Records Management
- Facility Management
- Travel Management
- IT Support
- Conference Tool
- Tracking Travel
- Quality Assurance
- Software Quality Assurance
- OREM Assessment Program
- OREM Procedures
- Issues Management System
- Contractor Assurance System
- Op Exp/Lessons Learned
- Cyber Security
- Sustainability/EMS
- OREM Training Program
- Directives Management
- Regulatory Affairs (e.g., FFA, NEPA, STP, permitting)
- Site Specific Advisory Board
- Reindustrialization
- Historic Preservation
- Communications
- Groundwater
- Technology Development
- FIMS Administration
- Long-Term Stewardship
- Environmental Information Systems
- Safety Culture/SCWE

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**APPENDIX B – QUALITY ASSURANCE AND INTEGRATED SAFETY
MANAGEMENT ALIGNMENT WHEEL**



QA Rule/DOE Order 414.1D/10 CFR 830, Subpart A & NQA-1 Alignment with ISMS

<p>Competence Commensurate with Responsibilities RULE-II,IV,IX,X NQA-BR-1,2,3,4,6,10,11,15,16,17,18</p> <p>Define Scope of Work RULE-IV,V,VI,VII,VIII,IX,X NQA BR-1,2,3,4,5,6,7,8,10,11,12,14,17,18</p> <p>Analyze Hazards RULE-IV,V,VI,VII,VIII,IX,X NQA BR-1,2,3,4,5,6,7,8,9,10,11,12,14,15,16,17,18</p> <p>Develop & Implement Hazard Controls RULE-IV,V,VI,VII,VIII,IX,X NQA-BR-1,2,3,4,5,6,7,8,9,10,11,12,14,15,16,17,18</p> <p>Perform Work with Controls RULE-II,V,VI,VIII NQA-BR-2,3,6,8,9,10,11,12,13,14,18</p>	<p>Provide Feedback & Continuous Improvement RULE-III,IV,V,VIII,IX,X NQA-BR-3,4,6,8,9,12,13,14,17,18</p> <p>Establish ES&H Policy RULE-I,IV,V,VIII,IX NQA-BR-1,2,3,4,6,8,9,12,13,14,17</p> <p>Management Review RULE-I,III,IV,IX NQA-BR-1,2,3,4,6,15,16,17</p> <p>Line Mgmt Responsible for Safety RULE-I,IV,IX NQA-BR-1,2,3,4,6,17</p> <p>Clear Roles & Responsibilities RULE-I,IV,IX,X NQA-BR-1,2,3,4,6,10,11,15,16,17,18</p>	<p>Balanced Priorities RULE-II,IV,IX,X NQA-BR-2,3,4,6,10,11,12,15,16,18</p> <p>Identification of Safety Standards & Requirements RULE-IV,V,VI,VII,VIII,IX,X NQA-BR-1,2,3,4,5,6,7,8,9,10,11,12,14,15,16,17,18</p> <p>Hazard Controls Tailored to Work being Performed RULE-IV,V,VI,VII,VIII,IX,X NQA-BR-1,2,3,4,5,6,7,8,9,10,11,12,14,15,16,17,18</p> <p>Suspect/Counterfeit Items (S/C/I) QA Order - Att. 3 Safety Software Quality Assurance (SQA) - Att. 4</p>
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ASME NQA-1-2004 Part I

BR-1 Organization	BR-10 Inspection
BR-2 QA Program	BR-11 Test control
BR-3 Design Control	BR-12 Control of M&TE
BR-4 Procurement Document Control	BR-13 Handling, storage & shipping
BR-5 Instructions, Procedures & drawings	BR-14 Inspection test & operating status
BR-6 Document Control	BR-15 Control of nonconforming material
BR-7 Control of purchased items & services	BR-16 Corrective Action
BR-8 ID & Control of items	BR-17 QA Records
BR-9 Control of special processes	BR-18 Audits
	Part II - Subpart 2.7 - SQA

DOE 414.1D/10 CFR 830 Criteria

I. Program	VI. Design
II. Personnel Training & Qualification	VII. Procurement
III. Quality Improvement	VIII. Inspection & Acceptance Testing
IV. Documents & Records	IX. Management Assessment
V. Work Process	X. Independent Assessment
	CRD - S/C/I/SQA

BR = Basic Requirement & Supplemental Requirements as applicable

Author: R.A. Carter, WCH E0807023_1
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